

**Proceedings of the Meeting of Joint Board of Studies held on 11<sup>th</sup> July 2016 at VTU Regional Office, Bengaluru 11.00 a.m.**

The Joint Board of Studies meeting was convened on 11<sup>th</sup> July 2016 to discuss on the following agenda:

1. Finalization of III and IV Semester UG Scheme and Syllabus based on CBCS and Bloom's Taxonomy,
2. Finalization of PG Scheme and Syllabus based on CBCS and Bloom's Taxonomy,,
3. Internship Programme for QIP and Part Time Students,
4. Internship and Project for the Part Time PG students,
5. Adding Electives in Engineering physics suggested by few faculty members.
6. Any other matter with the permission of the chair.

The Registrar, Dr. H.N. Jagannath Reddy formally welcomed Hon'ble Vice-Chancellor Dr. V. Sridhar and Chairmen of newly formed Boards of Studies, also Special invitee Dr. M.S. Shivakumar and requested Hon'ble Vice-Chancellor for further proceedings.

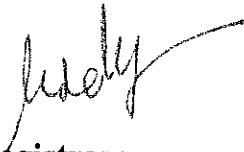
Hon'ble Vice-Chancellor once again welcomed Chairmen of newly formed Boards of Studies and Special invitee Dr. M.S. Shivakumar. Hon'ble Vice-Chancellor addressed regarding feedback received from faculty and other stake holders about revised Schemes and Syllabus to be adopted from 3<sup>rd</sup> to 8<sup>th</sup> semesters and PG programmes. The Hon'ble Vice-Chancellor requested Hon'ble members for discussions and deliberations. After detailed deliberations the following resolutions were made.

- UGC introduced CBCS to bring uniformity among all universities but in totality the system works in Autonomous colleges and deemed universities. However, university is adopting the same with certain modifications, in this regard.
- Regulations governing the CBCS to be reviewed and incorporated.
- Registration process and dropping of courses are not included in regulations.
- Committee shall be formed to review regulations governing CBCS.
- Resolved to adopt letter grades and guidelines as defined by AICTE regarding CBCS.
- No electives at 3<sup>rd</sup> and 4<sup>th</sup> semester levels. Electives are offered from 5<sup>th</sup> semester onwards with open elective concept one each in 5<sup>th</sup> and 6<sup>th</sup> semesters.
- 6 Theory and 2 Labs to be introduced in all semesters (UG).

- The Scheme for 3<sup>rd</sup> and 4<sup>th</sup> semester UG programme and for PG Programme has been finalized (Annexure I).
- Textile board is permitted to follow the existing course structure.
- Review on CIP and CIV courses and nature of examination conduct may be taken up during next syllabus review during 2019-20.
- Internship exams are to be carried out like practical exams i.e. if examiner is not available from industries, an external examiner may be called from counterpart colleges. Internship to be conducted during vacation period only.
- Part-time and QIP PG programs students have to take up internship during vacation if candidate is from teaching fraternity and if candidate from industry has to carryout work in industry other than where the candidate is working.
- Some weightage shall be given for publications in the M.Tech. Thesis evaluation.
- To download the curriculum of other reputed universities / institutions and refer for framing the curriculum and scheme for higher semesters.

Meeting was concluded with the thanks by the Registrar, Dr. H.N. Jagannatha Reddy also he requested all board chairmen to finalize the Scheme and syllabus within 20<sup>th</sup> July 2016.

**Dean, Faculty of Engineering:**




**Registrar:**

**Vice-Chancellor:**



## Proceedings of the Joint BoS meeting held on 06<sup>th</sup> March 2017 at VTU, Belagavi

### Members Present:

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi.
2. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
3. Dr. K. Ramachndra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
4. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
5. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi.
6. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7. Dr. K.B. Prakash in place of Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi.
10. Dr. B. R. Lakshmikanth, Chairman, BOS in E & E of VTU, Belagavi.
11. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
12. Dr. Manjunath in place of Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
13. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
14. Dr. Ramakrishna in place of Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
16. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
17. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
18. Prof. Keshava Murthy, Special Invitee.
19. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi
20. Dr. K.R.Mulla in place of Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi
21. Dr. Sateesh Annigeri, Registrar(Evl). VTU, Belagavi

### Agenda:

1. **Modifications in the Regulation pertaining to allotment of credits.**
2. **Review of CBCS 2016-17 Regulations**
  - i. 16 OB 6.1 (iii),
  - ii. 16 OB 9.1(3)
  - iii. 16 OB 11.3
3. **Applicability of Regulations governing B.E/B.Tech under CBCS 2016-17**
4. **Revision of mandatory subjects like 'Management'**
5. **Admission to vacant seats of PG Courses**
6. **NCC as an Elective subject**
7. **Mobile Development Application as inter disciplinary courses.**
8. **Revision of Research Methodology for Ph.D. Program**
9. **Any other matter with the permission of the chair.**

**Minutes of the Meeting:**

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairmen of Board of Studies and also Special invitee Prof.. Keshavamurthy, He requested Hon'ble Vice- Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members The Hon'ble Vice-Chancellor requested members for discussions and deliberations. After detailed deliberations the following resolutions were made.

**Agenda -1** : Modifications in the Regulation pertaining to allotment of credits.

**Resolution** : It is resolved to teach Kannada language and Constitution of India, Professional Ethics and Human Rights during 3<sup>rd</sup> and 4<sup>th</sup> semesters with one credit each by adjusting credits of 3<sup>rd</sup> and 4<sup>th</sup> Semesters on cycle base concept i.e., 50% of branches of the Institute shall opt Kannada language in 3<sup>rd</sup> Semester and remaining 50% of branches shall opt Constitution of India, Professional Ethics and Human Rights, vice-versa in 4<sup>th</sup> Semester respectively. The scheme is enclosed (**Annexure-1**). The same is in effect from 2017-18 batch. Also Kannada language and Constitution of India, Professional Ethics and Human Rights shall be considered for the eligibility criterion prescribed for promotion.

It is also resolved that, Internal Assessment Marks in each theory course shall be the sum of marks prescribed for test and assignment. Marks prescribed for test shall be 15 and that for assignment be 05.

The Internal Assessment marks for test in a theory course shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a minimum of 15 marks and the final test marks shall be the average of three tests, proportionally reduced to a maximum of 15 marks.

The remaining 05 marks shall be awarded based on the evaluation of Assignments/Unit tests/Written Quizzes that support to cover some of the course/program outcomes. Final marks awarded shall be the sum of these two out of maximum of 20 marks.

- Agenda -2** : Review of CBCS 2016-17 Regulations  
i. 16 OB 6.1 (iii),  
ii. 16 OB 9.1(3)  
iii. 16 OB 11.3

**Resolution** : i). The regulation 16 OB 6.1 (iii) reads as, "*A student obtaining Grade "F" in a course shall be considered failed and is required to reappear in subsequent SEE. Number of attempts taken to clear a course shall be indicated in the grade cards/ transcripts.*"

It is resolved to award the grade secured by the student during his/her reattempt.

ii). The regulation 16 OB 9.1 (2 & 3) reads as,

*"A student will be declared successful at the Semester-end or Programme-end only on obtaining each SGPA and CGPA is greater than or equal to 5.00, with none of the courses registered in a Semester/s remaining with "F" Grade."*

*"In case, the SGPA/ CGPA fall below 5.00, the student shall be permitted to appear again for SEE for required number of course/s (other than seminar and Practical) and times, subject to the provision of 16OB1.5, to make up SGPA greater than or equal to 5.0. The student should reject the SEE results of the previous attempt and obtain written permission from The Registrar (Evaluation) to reappear in the subsequent SEE".*

It is resolved to consider passing standard of SGPA/CGPA of 5.00 from the 2016-17 batch, however SGPA/CGPA falling below 5.00 cannot be considered for vertical progression, however candidate shall be declared successful by achieving final CGPA of 5.00.

Also it is resolved that, a student is allowed to reappear for maximum 4 Courses per semester i.e. maximum of 16 credits in case SGPA/CGPA falls below 5.00

iii). The Mandatory non – credit courses for all kind of Lateral Entry students viz., Environmental Studies, Advanced mathematics III and IV , Computer Aided Engineering Drawing and Programming in C and Data structure shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.

- Agenda -3** : Applicability of Regulations governing B.E/B.Tech under CBCS 2016-17
- Resolution** : It is resolved that, Regulations governing B.E/B.Tech under CBCS 2016-17 are in effect from 2015-16 batch.
- Agenda -4** : Revision of mandatory subjects like 'Management'.
- Resolution** : Respective Board of Studies authorized to revise the contents as per the needs by considering the proposal given by Sri Sharth Arun on Project Management Methodologies.
- Agenda -5** : Admission to vacant seats of PG Courses
- Resolution** : It is resolved that, seats remaining vacant(unfilled), after the completion of PG admission process by Karnataka Examination Authority, shall be filled by the Institution by inviting applications through Press notification. The seats shall be filled by Candidates preferably who have valid GATE/PGCET score. In the absence of such Candidates, admission shall be based on merit in the entrance test conducted at the Institution level. By constituting an Admissions Committee, consisting of the Principal of the College, Head of the concerned Department and the subject experts.
- Agenda -6** : NCC as an Elective subject
- Resolution** : NCC shall be included as an open Elective subject at 5<sup>th</sup> semester level. A student can opt this as an elective subject to satisfying the prerequisites. Dr. H.C. Nagaraj, Dean, Faculty of Engineering, VTU, Belagavi is requested to frame the modalities and syllabus as per UGC guidelines.
- Agenda -7** : Mobile Development Application as inter disciplinary courses.
- Resolution** : Mobile Development Application shall be included as an open Elective subject at 6<sup>th</sup> semester level. Dr. Basavaraj Anami, Chairman BoS in CSE/ISE board is requested for framing syllabus.
- Agenda -8** : Revision of Research Methodology for Ph.D. Program.
- Resolution** : Dr. H.C. Nagaraj, Dean, Faculty of Engineering, VTU, Belagavi, is requested to revise the Research Methodology syllabus for Ph.D. Program.

### **Table Agenda**

**With the permission of the chair, the following issues taken up for discussion**

**Table Agenda-1** : Review and Revision of curricula once in three years.

**Resolution** : It is resolved to write a letter to UGC stating that, Review and Revision of curricula in the University is once in four years and two years for UG and PG Programs respectively as all UG Programs are of 4 years duration and PG of 2years duration.

**Table Agenda-2** : Approval of five years integrated degree in Engineering & Technology program leading to Master of Technology (M.Tech.)

**Resolution** : The matter is deferred.

**Table Agenda-3** : Equivalence of UG courses. As per the EC resolutions the courses are considered as equivalent except for teaching career.

Course	Considered Equivalent to	EC Res. No.
Industrial Production Engg.	Mechanical Engg.	9 dt. 4/4/2005
Automobile Engg.	Mechanical Engg.	2.9 dt. 29/5/2006
Transportation Engg.	Civil Engg.	3.2.1 dt. 15/12/2007
Construction Tech. & Mgmt.	Civil Engg.	3.2.3 dt. 6/7/2009
Environmental Engg.	Civil Engg.	3.2.2 dt. 6/7/2009
Information Sc. & Engg.	Computer Science & Engg.	2.2.2 dt. 29/7/2011

Apart from of these the University has also received requests for equivalence for,

1. Electronics & Instrumentation to Electronics & Communication Engg.
2. Instrumentation technology to Electronics & Communication Engg.
3. Tool Engg. (Closed during 2012-13 only two batches) to Mechanical Engg.
4. Information Sc. & Engg. to Information Technology

**Resolution** : Resolved to consider the request including for teaching career.

**Table Agenda-4** : Proposal of inclusion of ITIL ( **Information Technology Infrastructure Library**) Processes (for IT branches)

**Resolution** : Dr. Basavaraj Anami, Chairman BoS in CSE/ISE board is requested to check the details and implementation modalities.

**Table Agenda-5** : Age limit for Ph.D./M.Sc. Engg. (By Research) Guide ship.

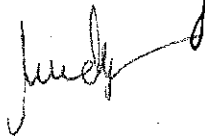
**Resolution** : Guide ship for Ph.D./M.Sc. Engg. (By Research) shall be allowed up to 65 (70-5) years for the faculty in service.

The Meeting concluded with thanks by the Registrar, Dr. H.N. Jagannatha Reddy, with a request to all board chairmen to finalize the Scheme for UG programs by 13<sup>th</sup> March 2017.

**Dean:**



**Registrar:**



**Vice-Chancellor:**





Item No.2.2.2	Recommendations of the Joint Board of Studies meeting held on 6-3-2017
	<p>The Chairman stated that the Joint Board of Studies Meetings was called on 6-03-2017 and following agenda items were discussed:</p> <ol style="list-style-type: none"><li>1. Modifications in the CBCS Regulations pertaining to allotment of credits</li><li>2. Review of CBCS 2017-17 Regulations (i) 16 OB 6.1(iii) (ii) 16 OB 9.1(3) (iii) 16 OB 11.3</li><li>3. Applicability of Regulations governing B.E./B.Tech. under CBCS 2016-17</li><li>4. Revision of mandatory subjects like 'Management'</li><li>5. Admission to vacant seats of PG courses</li><li>6. NCC as an Elective subject</li><li>7. Mobile Development Application as inter disciplinary courses.</li><li>8. Revision of Research Methodology for Ph.D. Program.</li><li>9. Any other matter with the permission of the Chair</li></ol> <p>The recommendations of the Joint Board of Studies on the above agenda points are placed before the Executive Council for consideration and approval. The subject was placed before the Academic Senate and the Academic Senate has recommended to approve the recommendations of Joint Board of Studies with certain modifications. The Executive Council approved the same.</p>
	<p><b>Resolution No.2.2.2</b></p> <p>The Executive Council resolved to accept the recommendations of the Academic Senate on the proceedings of JBOS, as under:</p> <ul style="list-style-type: none"><li>• Members suggested revision in the procedure adopted in conducting IA and award of IA marks which is affecting the career of VTU students as compared to the students of Autonomous colleges. The Chairman assured that it will be taken care at the next revision of syllabus under CBCS.</li><li>• Academic Senate appreciated the stand taken by the University in filling the vacant seats of PG courses, after the completion of PG Admission Process by KEA</li><li>• Agenda and resolution No.7 to be read as <i>Mobile Application Development</i> instead of Mobile Development Application.</li><li>• The Dean has come out with the revised Research Methodology Syllabus for Ph.D. programme which will be common to all the branches of Engineering and Management Studies. The Academic Senate recommended to adopt the same.</li></ul> <p>Further, pertaining to filling the vacant seats of PG Courses after the completion of PG Admission Process by KEA, the Executive Council resolved to write a letter to the Government regarding the procedure being adopted.</p> <p>Further, the Executive Council resolved to add to the CBCS 2016-17 Regulations 16 OB 11.3, that 'the candidate shall pass the required Bridge Courses of the UG Programme before the commencement of 7<sup>th</sup> semester.'</p> <p>Further, The Executive Council resolved to constitute an Expert Committee to finalise the Regulations governing CBCS, pertaining to Vertical Progression of the student during the course.</p>





# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಟಿಪ್ಪಣಿ ಪುಟ : .....

ಪುಟ ಸಂಖ್ಯೆ : .....1.....

ಕಡತದ ಸಂ. : .....

ದಿನಾಂಕ : 01/02/2018

ವಿಭಾಗ

ವಿಷಯ : JBOS Meeting Items Approval - reg

Academic

**Submitted:**

It is proposed to conduct the **Joint Board of Studies**

**Meeting** with the following agenda:

- The CBCS scheme for PG programmes was introduced during 2016-17 by revising the curriculum accordingly. Due to reconsideration in the SGPA and CGPA calculations two Regulations are in place for PG programmes that is the students admitted to PG programmes during 2016-17 and 2017 - 18 are governed by the different regulations. However there is no change in the content of syllabus except the course codes. In regular practice the course content will be revised once in two years for PG and once in 4 years for UG programmes. So as the revision in course content is due for PG programmes for 2018-19 and also whether to revise SEE and CIE in the ratio of 60:40 for PG Programmes.
- Review of Model Curriculum for UG Programme Designed by AICTE.
- Review & Implementation of Model Curriculum for PG Programme Designed by AICTE from 2018-19.
- Finalization of 3<sup>rd</sup> to 8<sup>th</sup> Semester Syllabus for 2017-18 Scheme
- Regulations and Scheme to be followed for 2016-17 batch students in case of re-admission/Eligibility to first year or higher semester at later stage.
  - a) These Students are governed by 2015-16 regulation and scheme, but currently 2017-18 scheme is in place or first year.

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

Office Suptd:

*1/2/18*

SO: Submitted for kind directions & orders - *1/2/18*

Registers: For kind approval *1/2/18*  
(dt 14/02/18 @ 11 AM at Blue Ro)

VE):

Approved to conduct on 14.2.18 at Blue Ro.  
*1.2.18*



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಟಿಪ್ಪಣಿ ಪುಟ : .....

ಪುಟ ಸಂಖ್ಯೆ : .....1.....

ಕಡತದ ಸಂ. : .....

ದಿನಾಂಕ : 01/02/2018

ವಿಭಾಗ

ವಿಷಯ : ~~Approval for inclusion of some additional names in the organizing committee for JAGRUTI- A Techno-Educative-Mela by VTU at Bengaluru & Hubballi - reg~~

Academic

~~Permissioin to conduct JBOS. ... reg~~

**Submitted:**

It is proposed to conduct the **Joint Board of Studies**

**Meeting** with the following agenda:

- The CBCS scheme for PG programmes was introduced during 2016-17 by revising the curriculum accordingly. Due to reconsideration in the SGPA and CGPA calculations two Regulations are in place for PG programmes that is the students admitted to PG programmes during 2016-17 and 2017 - 18 are governed by the different regulations. However there is no change in the content of syllabus except the course codes. In regular practice the course content will be revised once in two years for PG and once in 4 years for UG programmes. So as the revision in course content is due for PG programmes for 2018-19 and also whether to revise SEE and CIE in the ratio of 60:40 for PG Programmes.
- Review of Model Curriculum for UG Programme Designed by AICTE.
- Regulations and Scheme to be followed for 2016-17 batch students in case of re-admission/Eligibility to first year or higher semester at later stage.  
a) These Students are governed by 2015-16 regulation and scheme, but currently 2017-18 scheme is in place or first year.

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

**Office Suptd:** [Signature] 1/2/18

Special officer : submitted for kind orders of 7/2/18

leg: for kind approval [Signature] 01/02/18  
[Date 14/02/18 @ 11 AM, Blore Ro]

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**Proceedings of the Joint BoS meeting held on 14<sup>th</sup> February 2018 at VTU, Regional Office,  
Bengaluru**

**Members Present:**

1. Prof.V.Keshava Murthy, Special Invitee, Dept., of E&E, Dr.Ambedkar Institute of Technology, Bengaluru.
2. Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi
3. Prof.Vaman B Gudi, Special Invitee, Professor, Dept., of E&C , Cambridge Institute of Technology, Bengaluru
4. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
5. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
6. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
7. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
8. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
9. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
10. Dr. Shobha Savanur, Chairman, BOS in E & E of VTU, Belagavi.
11. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
12. Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
13. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
14. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
16. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
17. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
18. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi
19. Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi
20. Dr. Sateesh Annigeri, Registrar (Evaluation), VTU, Belagavi

**Agenda:**

1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19.
2. Review & Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19.
3. Review of Model Curriculum for UG Programme designed by AICTE.
4. Finalization of 3<sup>rd</sup> to 8<sup>th</sup> Semester Syllabus for 2017-18 Scheme.
5. Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester.
6. Any other matter with the permission of the chair.

**Table Agenda:**

1. An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch.
2. Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended-2014.
3. To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19
4. Number of ranks to be limited to 50% or less for programmes offered in only one Institution.
5. Providing Subject wise University Aggregate Results.
6. Clarification regarding Internship.
7. Formulation of Modalities/Guidelines for UG Internship (2015-16 Scheme).

**Minutes of the Meeting:**

Dr. H.N. Jagannatha Reddy, Registrar welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, all the Chairmen of Board of Studies and also Special invitees Prof. V. Keshava Murthy and Dr. D.S. Suresh. He requested the Hon'ble Vice-Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and requested members for active discussions as the agenda items. After detailed deliberations, the following resolutions were made.

<b>Agenda -1 &amp; 2</b>	:	<b>1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19.</b> <b>2. Review &amp; Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19</b>																											
<b>Resolution</b>	:	(a) Recommended to revise the scheme and syllabus of PG programs for the academic year 2018-19 in line with AICTE model curriculum with following recommendations: 1. Marks division for CIE and SEE to be in the ratio 40:60. 2. Programme credits for the award of degree: ➤ M.Tech. - 72 ➤ MBA - 102 ➤ MCA - 125 ➤ M. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA.																											
<b>Agenda -3</b>	:	<b>3. Review of Model Curriculum for UG Programme designed by AICTE.</b>																											
<b>Resolution</b>	:	(a) Recommended to revise the UG BE/B.Tech programme scheme of Teaching and Examination, and Syllabus in line with AICTE model curriculum and proposed to implement the same from the academic year 2018-19 with the following recommendations: 1. Conduct Three weeks mandatory Induction Programme. 2. Prepare the UG BE/B.Tech programme scheme of Teaching and Examination with the following structure: <table border="1"><thead><tr><th>SI No</th><th>Category</th><th>Prescribed credits</th></tr></thead><tbody><tr><td>1</td><td>Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.]</td><td>07</td></tr><tr><td>2</td><td>Basic Science courses</td><td>25</td></tr><tr><td>3</td><td>Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,</td><td>24</td></tr><tr><td>4</td><td>Professional core courses</td><td>80</td></tr><tr><td>5</td><td>Professional Elective courses relevant to chosen specialization/branch</td><td>15</td></tr><tr><td>6</td><td>Open subjects – Electives from other technical and /or emerging subjects</td><td>09</td></tr><tr><td>7</td><td>Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]</td><td>15</td></tr><tr><td colspan="2" style="text-align: right;"><b>Total credits</b></td><td><b>175</b></td></tr></tbody></table> 3. Academic Section to provide Templates for tentative scheme of teaching and evaluation as decided in the JBOS. 4. The respective Board of Studies to organize workshop/s regarding proposed AICTE model curriculum and to prepare the model	SI No	Category	Prescribed credits	1	Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.]	07	2	Basic Science courses	25	3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,	24	4	Professional core courses	80	5	Professional Elective courses relevant to chosen specialization/branch	15	6	Open subjects – Electives from other technical and /or emerging subjects	09	7	Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]	15	<b>Total credits</b>		<b>175</b>
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2	Basic Science courses	25																											
3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,	24																											
4	Professional core courses	80																											
5	Professional Elective courses relevant to chosen specialization/branch	15																											
6	Open subjects – Electives from other technical and /or emerging subjects	09																											
7	Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]	15																											
<b>Total credits</b>		<b>175</b>																											

		<p>scheme of teaching and examination based on the outcome of the workshop/s.</p> <p>5. It was proposed to conduct one day workshop to all the Chairmen &amp; Members, Board of Studies on AICTE Model Curriculum.</p> <p>6. Call for a meeting of chair persons of Basic Sciences, Humanities, board including the Chairmen of EEE, ECE, Mech and Civil boards for deliberation on the preparation of scheme of Teaching and Examination, and syllabus for 1<sup>st</sup> year B.E and B.Arch Programmes.</p> <p>7. B. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA. Chairman of B. Arch to propose scheme of Teaching and Examination, and syllabus of both UG and PG consultation with COA.</p>
<b>Agenda -4</b>	:	<b>Finalization of III to VIII Semester Syllabus for 2017-18 Scheme.</b>
<b>Resolution</b>	:	All Chairmen are to submit the final consolidated copy of syllabus only with minor changes in the contents in line with 2015-16 higher semester syllabus on or before 30-03-2018 without fail
<b>Agenda -5</b>	:	<b>Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester.</b>
<b>Resolution</b>	:	<p>(a) Recommended to follow the prevailing scheme for UG Programme. However an equivalence regarding scheme of study to be obtained from Chairman of concerned board.</p> <p>(b) Also recommended for PG Programme students who were admitted in 2016-17 and could not attend the higher semester classes during the academic year 2017 -18 and eligible now should attend the classes with 2017-18 scheme batch students. However, these students have to follow 2016-17 scheme of teaching and Examination and not the prevailing scheme of teaching and Examination.</p>
<b>Table Agenda</b>		
<b>Table Agenda-1</b>	:	<b>An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch.</b>
<b>Resolution</b>	:	Resolved to follow the present pattern that is in place.
<b>Table Agenda-2</b>	:	<b>Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended- 2014.</b>
<b>Resolution</b>	:	<p>(a) Issue about the qualifications for Research Supervisor for Ph.D (Architecture) to be referred to Research committee for consideration.</p> <p>(b) Issue about the Ph.D comprehensive viva – voce to be referred to Research committee for consideration.</p>
<b>Table Agenda-3</b>	:	<b>Inclusion of Kannada as one credit course for III semester B. Arch Programme from academic year 2018-19.</b>
<b>Resolution</b>	:	To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19.
<b>Table Agenda-4</b>	:	<b>Number of ranks to be limited to 50% or less for programme offered in only one Institution.</b>
<b>Resolution</b>	:	To abide by the existing regulations.
<b>Table Agenda-5</b>	:	<b>Providing Subject wise University Aggregate Results</b>

<b>Resolution</b>	:	University to publish Subject wise Aggregate Results so that the institutions can access the same through Principal's login.																										
<b>Table Agenda-6 &amp; 7</b>	:	<b>Clarification regarding Internship. Formulation of Modalities/Guidelines for UG Internship (2015-16 Scheme).</b>																										
<b>Resolution</b>	:	(a) Four week Internship during 6 <sup>th</sup> and 7 <sup>th</sup> and/or 7 <sup>th</sup> and 8 <sup>th</sup> Semester vacation period. (b) The examination on Internship to be conducted in line with University project viva -voce examinations. (c) Amend (modify) the existing 2015 -16 regulations governing the internship i.e., 15OB.9																										
<b>Table Agenda-7</b>	:	<b>Book Exhibition and Inclusion of one Librarian to BoS Meetings.</b>																										
<b>Resolution</b>	:	(a) To organize Book Exhibition at VTU Regional office, Bengaluru and VTU Campus, Belagavi. (b) To Invite one librarian to BoS Meetings to assist the Board of Studies to assist to select/propose Reference books and Text Books.																										
<b>Table Agenda- 8</b>	:	<b>Action Plan for Implementation of quality initiatives of AICTE including revised curriculum</b>																										
<b>Resolution</b>	:	It is resolved to write a letter to Ministry of Human Resource Development, Department of Higher Education, Government of India regarding the Action Plan Timeline of Implementation of AICTE Model Curriculum the timeline as follows:																										
		<table border="1"> <thead> <tr> <th>Sr.No</th> <th>Activity</th> <th>Time Line</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1.</td> <td rowspan="4">Inviting Board of Studies Meeting <ul style="list-style-type: none"> <li>Examining existing curriculum</li> <li>Examining AICTE Model curriculum for its suitability</li> <li>Revision of curriculum incorporating model curriculum suggested by AICTE</li> <li>Identifying PEO, PO, CO</li> </ul> </td> <td>02/02/2018</td> </tr> <tr> <td>14/02/2018</td> </tr> <tr> <td>16/04/2018</td> </tr> <tr> <td>16/04/2018</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> <li>Examining curriculum for its suitability of Industry demand.</li> <li>Vetting of PEO, PO, CO</li> </ul> </td> <td>15/03/2018</td> </tr> <tr> <td>02/05/2018</td> </tr> <tr> <td>3</td> <td>Preparation of Training Plans for Teachers</td> <td>05/05/2018</td> </tr> <tr> <td rowspan="2">4</td> <td rowspan="2">Inviting Academic Council Meeting <ul style="list-style-type: none"> <li>Approval of revised (model) curriculum</li> <li>Approval to teachers training plans</li> </ul> </td> <td>10/05/2018</td> </tr> <tr> <td>10/05/2018</td> </tr> <tr> <td>5</td> <td>Orientation workshop for faculty for implementation of revised curriculum</td> <td>15/05/2018 – 20/06/2018</td> </tr> <tr> <td>6</td> <td>Implementation of curricular retrospectively w.e.f Academic Session 2018-2019</td> <td>01/08/2018</td> </tr> </tbody> </table>	Sr.No	Activity	Time Line	1.	Inviting Board of Studies Meeting <ul style="list-style-type: none"> <li>Examining existing curriculum</li> <li>Examining AICTE Model curriculum for its suitability</li> <li>Revision of curriculum incorporating model curriculum suggested by AICTE</li> <li>Identifying PEO, PO, CO</li> </ul>	02/02/2018	14/02/2018	16/04/2018	16/04/2018	2	Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> <li>Examining curriculum for its suitability of Industry demand.</li> <li>Vetting of PEO, PO, CO</li> </ul>	15/03/2018	02/05/2018	3	Preparation of Training Plans for Teachers	05/05/2018	4	Inviting Academic Council Meeting <ul style="list-style-type: none"> <li>Approval of revised (model) curriculum</li> <li>Approval to teachers training plans</li> </ul>	10/05/2018	10/05/2018	5	Orientation workshop for faculty for implementation of revised curriculum	15/05/2018 – 20/06/2018	6	Implementation of curricular retrospectively w.e.f Academic Session 2018-2019	01/08/2018
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The Meeting concluded with thanks by the chair.

  
Registrar

  
Vice-Chancellor:



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

Dr. H. N. Jagannatha Reddy, BE, ME, Ph.d.  
REGISTRAR

Phone: (0831) 2405468  
Fax : (0831) 2405467

Ref No. VTU/Aca/A12/2017-18/ 11721

Date: 17 MAR 2018

## MEETING NOTICE

Sub: Meeting of Joint Board of Studies.

Ref: Hon'ble Vice Chancellor's Approval dtd: 17.03.2018

With reference to the above subject, the Joint Board of Studies Meeting is convened on 27<sup>th</sup> March 2018 at 11.00 a.m. at Executive Council Meeting Hall 'Jnana Sangama', VTU, Belagavi to discuss on the following Agenda:

### AGENDA:

1. Finalisation of 1<sup>st</sup> year scheme for 2018-19 UG and PG curriculum.
2. Guidelines for framing the regulations for 2018-19 scheme.
3. Introduction of Bachelor of Vocation as per AICTE syllabus and guidelines.
4. Any other matter with permission of the chair.

The Dean, Faculty of Engineering, VTU & Chairmen of all BoS are requested to make it convenient to attend the meeting. TA and Sitting Fee will be borne by the University to the members attending the meeting as per the VTU norms.

Sd/-

REGISTRAR

To,

- 1 Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi & Principal, Nitte Meenakshi Inst. of Technology, Bengaluru.
- 2 Prof. V.Keshava Murthy, Special Invitee, Dept. of E & E, Dr. Ambedkar Institute of Technology, Bengaluru.
- 3 Dr.D.S.Suresh, Special Invitee, Prinicpal, Channabasaveshwara Institute of Technology, Gubbi
- 4 Dr. K Ramachandra BOS in Aeronautical Engg. of VTU, Belagavi, Retd Director, GTRE 600/1, 10th Cross, 7th Block, West Jayanagara, Bengaluru-560082
- 5 Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi & Professor, RV School of Architecture, Bengaluru.
- 7 Dr. Nandkishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi & Professor, Dept. of Automobile, Guru Nanak Dev Engineering College, Bidar.
- 8 Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi & Professor, Dept. of Mathematics, GSSS Institute of Engineering & Technology, Mysuru.
- 9 Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi & Professor, Acharya Institute of Technology, Bengaluru.
- 10 Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi & Professor, Dept. of Chemical Engg, Bapuji Institute of Engineering & Technology, Davangere.
- 11 Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi & Professor & Head, Dept. of Civil Engg., Bangalore Institute of Technology, Bengaluru.
- 12 Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi & Principal, KLE Institute of Technology, Hubballi.
- 13 Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi & Principal, JNN College of Engineering, Shivamogga.
- 14 Dr. Shoba R Savanur, Chairman, BOS in E & E of VTU, Belagavi & Professor, BLDEA'S VP Dr.P G Halkatti College of Engineering, Vijayapur
- 15 Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi & Dept. of Industrial Engineering & Management, Bangalore Institute of Technology, K.R. Road, V.V. Puram, Bengaluru.
- 16 Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi & Professor, Dept. of E & IE, University B.D.T. College of Engineering, DAVANGERE.
- 17 Dr. U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi & Professor, RNS Institute of Technology, Bengaluru.
- 18 Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi & Principal, Global Institute of Technology, Bengaluru.
- 19 Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belgaum & Department of Textile Engineering, Bapuji Institute of Engineering & Technology, Shamnoor Road, Davangere.
- 20 Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi & Professor, Dept. of Computer Applications, Maharaja Institute of Technology, Mysuru.
- 21 Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi & Professor, Dept. of Nano Technology, VTU, PG Centre, Muddenahalli.
- 22 Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi & Chief Librarian, BMS College of Engineering, Bengaluru.

REGISTRAR

Copy to:

- 1) The Vice-Chancellor, through the secretary to V.C., VTU, Belagavi for information.
  - 2) The Finance Officer, VTU, Belagavi, for information.
  - 3) The Registrar's Office, VTU, Belagavi, for information.
  - 4) The Registrar (Evaluation), VTU, Belagavi, with request to attend the meeting.
  - 5) The Special Officer, Academic Section, VTU, Belagavi for information.
  - 6) The Resident Engineer, VTU, Belagavi to make necessary arrangements for the meeting including hospitality.
- Note: 1. All the Members and Special Invitees are requested to make their own arrangements towards transportation to attend the meeting.  
2. All the Members and Special Invitees are requested to produce Onward and Return Journey Tickets/Vouchers for the disbursement of travelling allowances.  
3. The TA will be disbursed as per KCSR/Government Circulars and orders only.



## ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

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ದಿನಾಂಕ : 17/03/2018

ವಿಭಾಗ

ವಿಷಯ : JBOS Meeting Items Approval - reg

Academic

**Submitted:**

It is proposed to conduct the **Joint Board of Studies Meeting** with the following agenda:

- Finalization of 1<sup>st</sup> year Scheme for 2018-19 curriculum
- Guidelines for framing the Regulations for 2018-19 scheme.
- Introduction of Bachelor of Vocation as per AICTE Syllabus and guidelines

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

**Office Suptd:**

for directions 17/3/18

Special officer: For kind directions 17/3/18

Registrar: For kind approval 17/03/18

9 MAR 2018  
9563

(1) : 6/3/18. Date 27.3.18 at Belagavi



**Joint Board of Studies Meeting held on 27<sup>th</sup> March 2018 at  
Executive Council Meeting Hall, Belagavi at 11.00am**

**Members Present:**

1	Dr. Karisiddappa, Chairman JBoS and Hon'ble Vice-Chancellor, VTU, Belagavi.
2	Dr. H. C. Nagaraj, Dean Faculty of Engineering VTU, Belagavi & Principal, Nitte Meenakshi Institute of Technology, Bengaluru.
3	Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
4	Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
5	Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engineering of VTU, Belagavi.
6	Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7	Dr. Aswath M. U., Chairman, BOS in Civil Engineering of VTU, Belagavi.
8	Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9	Dr. Shobha Savanur, Chairman, BOS in E & E of VTU, Belagavi.
10	Dr. Mallikarjun S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
11	Dr.U. Bhojanna, Chairman, BOS in MBA of VTU, Belagavi.
12	Dr. R. P. Reddy, Chairman, BOS in Mechanical Engineering of VTU, Belagavi.
13	Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi.
14	Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
15	Dr. Nandakishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi.
16	Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi.
17	Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi.
18	Dr. H.S. Dayananda, Chairman, BOS Humanities of VTU, Belagavi.
19	Dr. Satish Annigeri, Registrar (Evaluation), VTU, Belagavi.
20	Dr. H.N. Jagannatha Reddy, Member Secretary JBoS and Registrar, VTU, Belagavi.
21	Prof.V.Keshava Murthy, Special Invitee, Department of E&E, Dr.Ambedkar Institute of Technology, Bengaluru.
22	Dr. R Prabhakara, Former Prof and Head MSRIT, Bengaluru.
23	Dr. C N Chandrappa , Special Invitee, Acharya Institute of Technology, Bengaluru
24	Dr Vaman Gudi , Special Invitee, Dept of E&C, Cambridge Institute of Technology, Bengaluru

**Members on Leave:**

1	Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi.
2	Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.

## **Agenda**

1. Finalization of 1<sup>st</sup> year Scheme for 2018-19 UG and PG Curriculum and Timeline for submission of Syllabus is enclosed.
2. Guidelines for Framing the regulations for 2018-19 Scheme (The 2017-18 Scheme Regulation is placed on file for reference)
3. Introduction of Bachelor's of Vocation as per AICTE Syllabus and Guidelines
4. Any other matter with the permission of the chair.

## **Table Agenda:**

1. Implementation of Scientific Perspective and History on Modern Science Course in UG Level (as per the Government order ED 113 UNI 2017, dtd: 05.03.2018).
2. Consideration of M.Sc and B.Sc graduates for the admission of Post Graduate D in Industrial Management-PGDISM for IISM College (University has a MoU with this college for the award of degree).
3. The Eligibility Criteria for the admissions of MBA, MCA, ME and M.Tech and also the Criteria for the candidates passed through Open University/ Correspondence Course.

## **Minutes of the Meeting:**

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Honorable Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, Chairpersons of BOS and also Special invitees and presented the salient features of the model AICTE curriculum along with

- Proceedings of the Joint BoS meeting held on 14<sup>th</sup> February 2018 at VTU, Regional Office, Bengaluru.
- Proceedings of the One Day Workshop on "AICTE Model Curriculum" for UG and PG Programs held on 12<sup>th</sup> March 2018 at BMSCE, Bengaluru.

He requested the Honorable Vice-Chancellor for the further proceedings. Honorable Vice-Chancellor, Dr. Karisiddappa welcomed and requested all the chairpersons of BoS and Special Invitees for their active participation, discussions and fruitful conclusions. The outcomes of the deliberations in the form of resolutions are listed against each agenda.

<b>Agenda -1</b>	:	<b>Finalization of 1<sup>st</sup> Year scheme for 2018-19 UG and PG curriculum</b>
<b>Resolution</b>		Revise the scheme of Teaching and Examination, and syllabus for UG programs from the academic year 2018-19 in line with AICTE model curriculum and implement the scheme in compliance with the following.

<b>Agenda -1</b>	:	<b>A. UG Programs</b>										
<b>Resolution</b>		(UG.a) : UG Programs Credits										
<b>(continued)</b>		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="2" style="text-align: center;">Table.1</th> </tr> <tr> <th colspan="2" style="text-align: center;">Credits for the UG Programs starting from the academic year 2018 - 19</th> </tr> <tr> <th style="text-align: left;">Programs</th> <th style="text-align: left;">Credits</th> </tr> <tr> <td>B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years )</td> <td>175</td> </tr> <tr> <td>B. Arch (5 years)</td> <td>260</td> </tr> </table> <p>(UG.b): Three weeks mandatory Induction Programme</p> <p>(UG.c): Duration of I semester to be 18 weeks. The exact duration shall be intimated by Registrar (Evaluation) with reference to the period required for conducting of University examinations.</p> <p>(UG.d): Period of vacation after I semester University examination to be decided with reference (c). Preferable to reduce the present vacation period by 2 weeks.</p> <p>(UG.e): The credits for I and II semesters to be around 19 and 21 respectively.</p> <p>(UG.f):</p> <ol style="list-style-type: none"> <li>i. Formulate the syllabus of Physics, Chemistry and Mathematics that are appropriate for all the programs with due consideration to the PUC and XII Standard syllabi.</li> <li>ii. Dr.A. T. Eswara, Chairman of Basic Science Board of Studies to convene a meeting of Chairpersons of BOS in EEE, ECE, Mechanical Engineering, Civil Engineering and Humanities on or before 10th April 2018 to finalize the syllabus of Physics, Chemistry and Mathematics.</li> </ol> <p>(UG.g) : The course, Engineering Graphics be shifted to 1<sup>st</sup> year with sketching compulsory.</p> <p>(UG.h) : The mandatory courses Constitution of India and Professional Ethics, Environmental Studies, and Kannada shall be offered in III &amp; IV semesters.</p> <p>(UG.i) : Number of courses from III to VI semesters to be</p> <ul style="list-style-type: none"> <li>• 06 theory and 02 laboratories for Engineering programs and</li> <li>• 05 theory and 03 laboratories for Textile programme.</li> </ul>	Table.1		Credits for the UG Programs starting from the academic year 2018 - 19		Programs	Credits	B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years )	175	B. Arch (5 years)	260
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**Agenda -1  
Resolution  
(continued)**

(UG.j) : The UG, BE/B.Tech. to have

- one mandatory internship and
- Internship or mini – project during VI semester.

(UG.k) :

(a) The mandatory non – credit courses Diploma Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of BE/B.Tech programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for University examination.

(b) The mandatory non-credit courses Diploma Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE/B.Tech programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester.

(UG.l) : Chairpersons of BOS to organize workshops in their respective field of specialization to debate and evolve, based on the outcome, the scheme of Teaching and Examination for all the semesters.

(UG.m): The academic section to issue templates for tentative UG scheme of teaching and examination.

**B. PG Programs**

Revise the scheme of Teaching and Examination, and syllabus for PG programs from the academic year 2018-19 in line with AICTE model curriculum and implement the scheme in compliance with the following.

(PG.a) : PG Programs Credits

<b>Credits for the PG Programs starting from the academic year 2018 - 19</b>	
<b>Programs</b>	<b>Credits</b>
M.Tech.	72
MBA	102
MCA	125
M.Arch.	100

(PG.b) : The ratio of evaluation of SEE and CIE be 60:40.

(PG.c) : Courses for M.Tech programs shall be

- 05theory, 01 laboratory and Technical seminar for I semester.
- 05theory, 01 laboratory and mini- project/internship for II semester.
- 02theory and mini- project/internship for III semester.
- Dissertation and Technical seminar for IV semester.

<b>Agenda -1 Resolution (continued)</b>	(PG.d) : The academic section to issue templates for tentative PG scheme of teaching and examination. <b>C. Calendar of events for different activities of UG and PG Programs.</b>																
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;"><b>Calendar of events</b></th> </tr> <tr> <th style="text-align: center;"><b>Particulars</b></th> <th style="text-align: center;"><b>Last Date/Duration</b></th> </tr> </thead> <tbody> <tr> <td>Submission of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs.</td> <td>19<sup>th</sup> April 2018</td> </tr> <tr> <td>Publication of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website for Feedback</td> <td>21<sup>th</sup> April 2018 to 30<sup>th</sup> April 2018 for Feedback</td> </tr> <tr> <td>Mandatory workshop to be conduct on Scheme(2018-19) by each BOS</td> <td>Between 1<sup>st</sup> May 2018 and 20<sup>th</sup> May 2018</td> </tr> <tr> <td>Submission of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs University( by E-Mail)</td> <td>23<sup>rd</sup> May 2018</td> </tr> <tr> <td>Publication of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website.</td> <td>25<sup>th</sup> May 2018</td> </tr> <tr> <td>Presentation of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs before AS and EC for approval.</td> <td>Last week of May 2018 or First week of June 2018</td> </tr> </tbody> </table>	<b>Calendar of events</b>		<b>Particulars</b>	<b>Last Date/Duration</b>	Submission of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs.	19 <sup>th</sup> April 2018	Publication of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website for Feedback	21 <sup>th</sup> April 2018 to 30 <sup>th</sup> April 2018 for Feedback	Mandatory workshop to be conduct on Scheme(2018-19) by each BOS	Between 1 <sup>st</sup> May 2018 and 20 <sup>th</sup> May 2018	Submission of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs University( by E-Mail)	23 <sup>rd</sup> May 2018	Publication of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website.	25 <sup>th</sup> May 2018	Presentation of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs before AS and EC for approval.	Last week of May 2018 or First week of June 2018
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<b>Agenda -2</b>	: <b>Guidelines for framing the regulations for 2018-19 schemes.</b>																
<b>Resolution</b>	<ul style="list-style-type: none"> <li>• Frame the VTU Regulations 2018-19 of different programs by incorporating appropriate changes in the existing Regulations 2017-18.</li> <li>• The framing of VTU Regulations 2018-19 to be completed by Prof.V.Keshava Murthy, Dr. R. Parahakara and Sri. Vaman Gudi, all Special Invitees to JBOS.</li> </ul>																
<b>Agenda -3</b>	: <b>Introduction of Bachelor's of Vocation as per AICTE Syllabus and Guidelines.</b>																
<b>Resolution</b>	: a. A committee under the chairmanship of Dean, Faculty of Engineering to submit a report detailing the procedure for the institution of Bachelors of Vocation at VTU and other affiliated institutions.																

<b>Agenda -3 Resolution (continued)</b>	<p>b. Amend a clause to VTU statutes in respect of institution of Bachelors of Vocation programme.</p> <p>c. Seek concurrence from Government of Karnataka with respect to institution of Bachelors of Vocation programme, fees structure etc.</p>
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### Table Agenda

With the permission of the chair, the following issues were taken up for discussion

<b>Table Agenda-1</b>	<b>:</b> <b>Implementation of Scientific Perspective and History on Modern Science Course in UG Level (as per the Government order ED 113 UNI 2017, dated 05.03.2018).</b>
<b>Resolution</b>	<b>:</b> Dr. H.S. Dayananda , Chairman , BOS Humanities of VTU, Belagavi to submit a report about the feasibility of introducing the above said course at the earliest.
<b>Table Agenda-2</b>	<b>:</b> <b>Consideration of M.Sc and B.Sc graduates for the admission of Post Graduate Diploma in Industrial Management-PGDISM offered at IISM College (University has a MoU with this college for the award of degree).</b>
<b>Resolution</b>	<b>:</b> Recommended to permit the M.Sc and B.Sc Graduates for the admission to Post Graduate Diploma in Industrial safety Management-PGDISM offered at IISM College (University has a MoU as an extension center with this college for the award of Postgraduate Diploma).
<b>Table Agenda-3</b>	<b>:</b> <b>The Eligibility Criteria for the admissions to MBA, MCA, and M.Tech and also the Criteria for the candidates who have passed through Open University/ Correspondence Course.</b>
<b>Resolution</b>	<b>:</b> Respective BOS chairpersons to submit the eligibility criteria for admission to the concerned Programme as per UGC/AICTE norms by 05 <sup>th</sup> April to Registrar, VTU for on word submission to Karnataka Examination Authority, Bengaluru.

The Meeting concluded with thanks by the chair.

  
Registrar

  
Vice-Chancellor

## 2.2 Matters Concerning Board of Studies

Item No. 2.2.5 of the Agenda of the  
140<sup>th</sup> meeting of the Executive Council  
to be held on 13<sup>th</sup> July 2018

### Consideration of the Proceedings of the Joint Board of Studies Meeting held on 11-6-2018 at VTU's Regional Office, Bengaluru

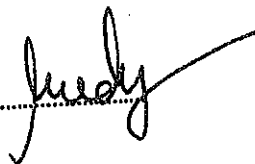
The Joint Board of Studies Meeting was held on 11-6-2018 at VTU's Regional Office, Bengaluru. The Proceedings of the Joint Board of Studies Meeting are placed before the Executive Council for consideration and approval.

The subject is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

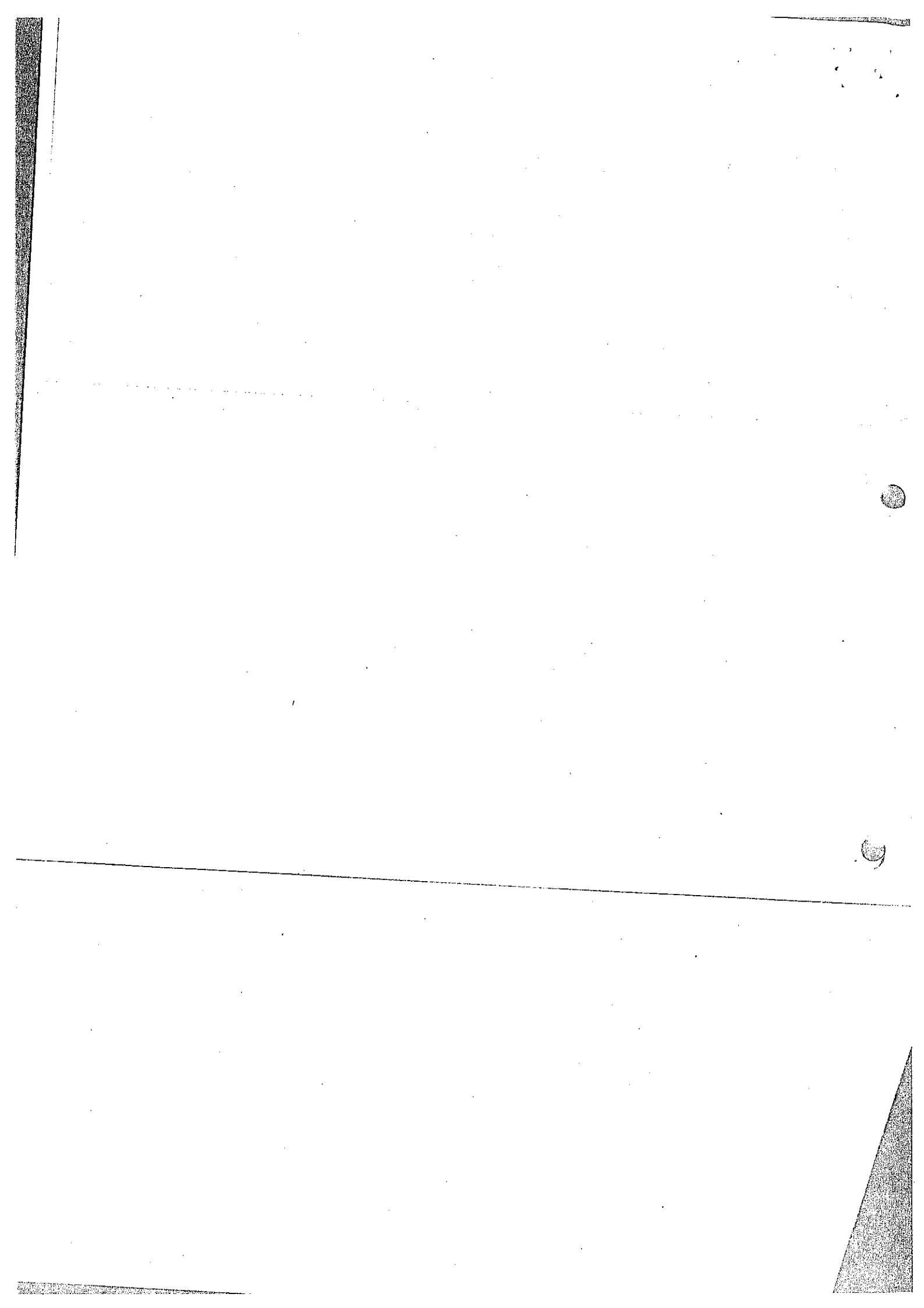
### **Resolution No. 2.2.5**

**The Executive Council resolved to accept the recommendations of the Academic Senate which recommended to approve the Proceedings of the Joint Board of Studies Meeting held on 11-6-2018 at VTU's Regional Office, Bengaluru, as placed in the meeting.**

Minutes of the 140<sup>th</sup> Executive Council Meeting held on 30-6-2018 and adjourned meeting held on 13-7-2018.....



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**Members Present:**

1. Dr. Karisidappa, Chairman JBOS and Vice chancellor, VTU, Belagavi.
2. Dr. H. N. Jagannatha Reddy, Registrar, VTU, Belagavi.
3. Dr. Satish Annigeri, Registrar (Evaluation), VTU, Belagavi
4. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU Belagavi, and Principal, Nitte Meenakshi Institute of Technology, Bengaluru.
5. Prof.V.Keshava Murthy, Academic Advisor, VTU Regional office, Bengaluru.
6. Dr R. Prabhakara, Professor, Emeritus Structural Engineering Division, and Advisor Academic and Admin section, VTU, Belagavi.
7. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences, VTU, Belagavi.
8. Dr. Omprakash S Bawane, Chairman, BOS in Architecture, VTU, Belagavi.
9. Dr. K. Ramachndra, Chairman, BOS in Aeronautical Engineering, VTU, Belagavi.
10. Dr. S. M Gopinath, Chairman BOS In Biotechnology, VTU, Belagavi.
11. Dr. Aswath M. U., Chairman, BOS in Civil Engineering, VTU, Belagavi.
12. Dr. Srinivas Rao Kunte, Chairman, BOS in E and C, VTU, Belagavi.
13. Dr. Shobha Savanur, Chairperson, BOS in E and E, VTU, Belagavi.
14. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics and Instrumentation Engineering of VTU, Belagavi.
15. Dr.U. Bhojanna, Chairman, BOS in Business Administration, VTU, Belagavi.
16. Dr. R. P. Reddy, Chairman, BOS in Mech. Engineering, VTU, Belagavi.
17. Dr. M. C. Jagath, Chairman, BOS in IPE, VTU, Belagavi.
18. Dr. Murugesh Babu, Chairman, BOS in Silk and Textile Technology, VTU, Belagavi.
19. Dr. Nandakishore, Chairman, BOS in Automobile Engineering, VTU, Belagavi.
20. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology, VTU, Belagavi.
21. Dr. N.Chowdappa, Chairman, BOS in Library and Information Science, VTU, Belagavi.
22. Dr. H.S Dayananda, Chairman, BOS Humanities, VTU, Belagavi.

**Members Absent**

1. Dr. D.S.Suresh, Academic Senate and Executive Committee member, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi.
2. Dr. C N Chandrappa, Executive Council Member and Special Invitee, VTU, Belagavi.
3. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering and Polymer Science, VTU, Belagavi.

**Agenda:**

1. Finalization of the Scheme for B.E/B.Tech Programme for 2018-19 scheme (as per AICTE Model Curriculum).
2. Finalization of the Scheme for M.Tech/MCA and MBA Programme for 2018-19 scheme (as per AICTE Model Curriculum).
3. To adopt teaching days as 180 in a Year as per UGC.

**Table Agenda:**

1. Equivalence Courses for Change of Scheme Students.
2. Mention of paper setting Board.
3. M.Sc Physics consideration for Eligibility in M.Tech (Renewable Energy).
4. Any other matter with the permission of the chair

**Minutes of the Meeting:**

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Honorable Vice-Chancellor Dr. Karisiddappa, Chairmen of Joint Board of Studies and all the members present. He requested Honorable Vice-Chancellor for further proceedings.

Honorable Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and briefed on the agenda. Honorable Vice-Chancellor requested members for discussions. After detailed deliberations the following resolutions were made.

<b>Agenda -1</b>	<b>Finalization of the Scheme for B.E/B.Tech Programme for 2018-19 scheme (as per AICTE Model Curriculum).</b>
<b>Resolution</b>	<p>1. Resolved to incorporate the following to the Scheme of Teaching and Examination of UG programme 2018-19.</p> <p>(a) In order to provide sufficient time for the learners in tutorial classes, it is decided to assign one credit to 2 hour tutorial/week/semester in lieu of earlier decision that one credit to 1 hour tutorial/week/semester.</p> <p>(b) To provide ample opportunity for teaching - learning exercise of two credit English course, the consensus of the Board was to have the course both in I and II semesters instead of limiting it only to II semester.</p> <p>(i) Further, designate the course as Language Laboratory I (English) for I semester and Language Laboratory II (English) for II semester. Each course to carry a credit of one.</p> <p>(ii) Consider the course under practical heading.</p> <p>(iii) Assessment of students in the course to be through CIE only.</p> <p>(c) (i) The III semester course Kannada to be taught as vyavaharika kannada (Communication Kannada) to non-kannada speaking students/ to students who have not studied kannada during schooling and Aadalithathmaka Kannada (Administrative Kannada) to students who can read and write kannada and have studied kannada during schooling.</p> <p>(ii) Consider the course under practical heading.</p> <p>(iii) Assessment of students to be through CIE only.</p> <p>(d) Title of the course Civil Engineering and Mechanics of I / II semester to be modified as Elements of Civil Engineering and Mechanics.</p> <p>(e) Title of the course Computer Programming Laboratory of I / II semester to be modified as C Programming Laboratory.</p> <p>(f) Assessment of students in the VII semester BE/B.Tech course project work Phase -1 to be through CIE only.</p> <p>(2) Four Professional Elective Courses to be assigned to BE/B.Tech programmes; One for VI semester, two for VII semester and one for VIII semester.</p> <p>3.(i) Two Open Elective Courses to be assigned to BE/B.Tech programmes;</p>

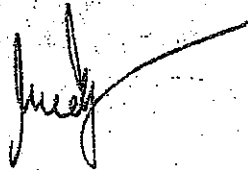
	<p>One each during VI and VII semesters.</p> <p>(ii) Constitute a Committee with Dean, Engineering as Chairman, Chairpersons of Board of Studies and Advisors of VTU as members for finalization of BE/B.Tech Open Electives.</p> <p>4. Board authorized the Vice-Chancellor to finalize the BE/B.Tech Regulations 2018 – 19 and Scheme of Teaching and Examination.</p> <p>5. Board of Studies to submit the Scheme of Teaching and Examination and syllabus pertaining to III to VIII semesters of BE/B.Tech/ B.Arch programmes on or before 30<sup>th</sup> June 2018.</p>																				
<b>Agenda -2</b>	<b>Finalization of the Scheme for M.Tech, MCA, MBA and M.Arch Programme for 2018-19 scheme (as per AICTE Model Curriculum).</b>																				
<b>Resolution</b>	<p>(1) Revise the credits of postgraduate programmes to be on par with the credits prescribed for autonomous colleges under VTU from the academic year 2018 -19. The table 1 shows the previous and the revised credits prescribed for the postgraduate programmes.</p> <table border="1"> <caption>Table - I Credits prescribed for different Postgraduate programmes</caption> <thead> <tr> <th rowspan="2">Postgraduate programmes</th> <th colspan="2">Credits as per the decision of</th> </tr> <tr> <th>JBOS held on 27 - 03 - 2018</th> <th>JBOS held on 11 - 06 - 2018</th> </tr> </thead> <tbody> <tr> <td>M. Tech.</td> <td>72</td> <td>88</td> </tr> <tr> <td>M. Arch.</td> <td>100</td> <td>100</td> </tr> <tr> <td>M.B.A.</td> <td>102</td> <td>100</td> </tr> <tr> <td>M.C.A.</td> <td>125</td> <td>132</td> </tr> <tr> <td>MCA (Lateral Entry)</td> <td>--</td> <td>88</td> </tr> </tbody> </table> <p>(2) Marks for evaluation of each course to be 100; SEE and CIE to be in the ratio 60:40.</p> <p>(3) Evaluation of Technical seminar and Project work phase 1 to be through CIE only.</p> <p>(i) The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>(ii) The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.</p> <p>(4) Recent two year MCA Programme sanctioned by AICTE, is to be reckoned as II and III years of the three year MCA programme for which BCA/B S.c Graduates are only eligible under lateral entry scheme.</p>	Postgraduate programmes	Credits as per the decision of		JBOS held on 27 - 03 - 2018	JBOS held on 11 - 06 - 2018	M. Tech.	72	88	M. Arch.	100	100	M.B.A.	102	100	M.C.A.	125	132	MCA (Lateral Entry)	--	88
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<b>Agenda -3</b>	<b>To adopt teaching days as 180 in a Year as per UGC.</b>																				
<b>Resolution</b>	<b>Resolved to adopt 180 or more teaching days in an academic Calendar as per UGC norms and to have at least 90 teaching days per semester.</b>																				

**Table Agenda**

<b>Table Agenda-1</b>	<b>:</b>	<b>Equivalence courses for students who change the Scheme.</b>
<b>Resolution</b>	<b>:</b>	Students who change the scheme of study because of various reasons have to get admitted to the prevailing scheme and follow the norms pertaining to it. Such students may have to complete additional subjects, if any, when the equivalence between the two schemes is decided by the concerned Board of Studies along with the number of credits to be earned after completing all the remaining semesters as a regular student in the prevailing scheme.
<b>Table Agenda-2</b>	<b>:</b>	<b>Mention of paper setting Board.</b>
<b>Resolution</b>	<b>:</b>	Specific paper setting Board of examiners (BOE) be mentioned against each science Course instead of the generic term Basic Sciences in the BE/B.Tech scheme of Teaching and Examination. Illustration: (i) Engineering Physics: Paper setting Board - BOE in Physics. (ii) Engineering Chemistry: Paper setting Board - BOE in Chemistry. (iii) Mathematics papers: Paper setting Board - BOE in Mathematics.
<b>Table Agenda-3</b>	<b>:</b>	<b>Approval of M.Sc Physics degree for Eligibility to M.Tech (Renewable Energy).</b>
<b>Resolution</b>	<b>:</b>	After the deliberations, M.Sc Physics degree, as per MNRE, Government of India, is approved to be eligible to M.Tech (Renewable Energy) programme.
<b>Issues with the permission of the chair</b>		
<b>Issue-I</b>	<b>:</b>	Change of nomenclature of programme (course, according to AICTE Approval Process Handbook 2018 -19) Instrumentation Technology (IT) to Electronics and Instrumentation Engineering (EI)
<b>Resolution</b>	<b>:</b>	Address a letter to KEA - CET cell to change the branch name of Instrumentation Technology (page 14)/ Instrumentation Technology (IT) (page 21) to Electronics and Instrumentation Engineering (EI) in the PGCET - 2018 - Information Bulletin.

The Meeting concluded with thanks by the chair.

Registrar



Vice-Chancellor:

**Joint Board of Studies Meeting held on 17<sup>th</sup> September 2018 at Senate Hall, VTU  
Regional Center Kalaburagi at 11.00am**

**Members Present:**

1. Dr. Karisidappa, Chairman JBOS and Honorable Vice chancellor, VTU, Belagavi.
2. Dr. H. N. Jagannatha Reddy, Registrar, VTU, Belagavi.
3. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU Belagavi, and Principal, Nitte Meenakshi Institute of Technology, Bengaluru
4. Dr. Satish Annigeri, Registrar (Evaluation), VTU, Belagavi
5. Dr. C N Chandrappa, Executive Council Member and Special Invitee, VTU, Belagavi.
6. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi & Principal, KLE Institute of Technology, Hubballi
7. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences, VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E and C, VTU, Belagavi.
9. Dr. R. P. Reddy, Chairman, BOS in Mech. Engineering, VTU, Belagavi.
10. Dr. Aswath M. U., Chairman, BOS in Civil Engineering, VTU, Belagavi.
11. Dr. N.Chowdappa, Chairman, BOS in Library and Information Science, VTU, Belagavi.
12. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi & Professor, Dept. of Computer Applications, Maharaja Institute of Technology, Mysuru.
13. Dr. Omprakash S Bawane, Chairman, BOS in Architecture, VTU, Belagavi.
14. Dr. Nandakishore, Chairman, BOS in Automobile Engineering, VTU, Belagavi.
15. Dr. S. M Gopinath, Chairman BOS in Biotechnology, VTU, Belagavi.
16. Dr. Shobha Savanur, Chairperson, BOS in E and E, VTU, Belagavi.
17. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics and Instrumentation Engineering of VTU, Belagavi.
18. Dr.U. Bhojanna, Chairman, BOS in Business Administration, VTU, Belagavi.
19. Dr. Ramakrishna in place of Dr.M. C. Jagath, Chairman, BOS in IPE, VTU, Belagavi.
20. Dr. Murugesh Babu, Chairman, BOS in Silk and Textile Technology, VTU, Belagavi.
21. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering and Polymer Science, VTU, Belagavi
22. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology, VTU, Belagavi.
23. Dr. H.S Dayananda, Chairman, BOS Humanities, VTU, Belagavi.
24. Prof.V.Keshava Murthy, Academic Advisor, VTU Regional office, Bengaluru.
25. Dr R. Prabhakara, Professor, Emeritus and Advisor Academic and Admin section, VTU, Belagavi.
26. Prof. Vaman Gudi, Cambridge Institute of Technology north campus Bangalore – Special Invite

**Members Absent:**

1	Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi.
2	Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engineering of VTU, Belagavi.

## Agenda

1. To get approval for the 1<sup>st</sup> year B.E/B.Arch 2018 Scheme and Syllabus.
2. To get approval for the B.E/B.Arch 2018 Regulations
3. Finalization of M.Tech., MBA, MCA and M.Arch. 2018 Scheme and Syllabus.
4. Finalization of M.Tech., MBA, MCA and M.Arch. 2018 Regulations
5. Finalize introduction of Cyber Law Course at UG level as per recommendation of KSHEC Bengaluru
6. To discuss on the course offered by National Power Training Institute Faridabad equivalent to 3 credits of B.E. programme.
7. Finalize the Scheme and Syllabus submitted by EC/CS/E and IE Composite board prepared for PG Programme M.Tech. in Artificial Intelligence and Machine Learning @VIAT Muddenahalli
8. Equivalence of Subjects for the students switching from Non-CBCS to CBCS and vice-versa
9. i) To discuss and finalize the grouping of course work subject for Ph.D. programme from 2018  
ii) To discuss and revise the VTU ETR Syllabus for Ph.D./M.Sc. (Engg.) by Research 2018
10. Any other matter with the permission of the chair.

## Table Agenda:

1. Equivalence Certificate for B.E. Electronics and Communication Engineering is equivalent to Electronics Engineering
2. Additional requirement for earning 4/5 year Degree Programme Activity points
3. Proposal for starting M.Tech. Food Technology course. Submitted by Jyothy Institute of Technology, Bangalore
4. Request to change the Nomenclature from Telecommunication Engineering to "Electronics and Telecommunication Engineering".
5. Exemption of Constitution of India Professional Ethics and Human Rights of 2015-16 scheme. Who have admitted in 2017-18 scheme.
6. Recomposite of Mathematics, Aptitude and subject proposed Mathematics 20, Aptitude 10 and subject 70 for Ph.D. Entrance Exam
7. Consideration of request not to have Mathematics part for Architecture ETR Ph.D. entrance Test
8. Eligibility of Diploma courses for B.E. Aeronautical Engg/Aerospace Engg and Bio-Medical Engineering Letter received from D.T.E., Bangalore
9. B.E. Multidisciplinary projects for final year students
10. B.E. Hon's

### Agenda with the permission of the Chair

1. Consideration of Diploma completed graduates students not less than with Five year of experience(as per norms of Karnataka Factories Rules,1969) for admission of post graduate diploma in Industrial Safety Management @ International Institute of Industrial Safety Management Bangalore, VTU Extension Centre

### Minutes of the Meeting:

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Honorable Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, Chairpersons of BOS and also Special invitees, and requested the Honorable Vice-Chancellor for the further proceedings. Honorable Vice-Chancellor welcomed chairpersons of BoS and Special Invitees and requested for their active participation, discussions and fruitful conclusions. The proceedings of meeting are as follows:

<b>Agenda -1</b>	:	<b>To get approval for the 1<sup>st</sup> year B.E/B. Arch 2018 Scheme and Syllabus</b>
<b>Resolution</b>	:	Approved the Scheme of Teaching and Examinations, and Syllabus for 1 <sup>st</sup> year BE/B.Tech/B. Arch 2018 -19 batch
<b>Agenda -2</b>	:	<b>To get approval for the B.E/B.Arch 2018 Regulations</b>
<b>Resolution</b>	:	Approved the Regulations 2018 -19 governing BE/B.Tech and B.Arch programmes
<b>Agenda -3</b>	:	<b>Finalization of M.Tech. MBA, MCA and M.Arch. 2018 - 19 Scheme and Syllabus.</b>
<b>Resolution</b>	:	Approved the PG programmes Scheme of Teaching and Examination and Syllabus.
<b>Agenda -4</b>	:	<b>Finalization of M.Tech., MBA, MCA and M.Arch. 2018 Regulations</b>
<b>Resolution</b>	:	Approved the PG Regulations 2018 -19.
<b>Agenda -5</b>	:	<b>Finalize introduction of Cyber Law Course at UG level as per the recommendation of KSHEC Bengaluru</b>
<b>Resolution</b>	:	To include Cyber Law under the fifth module of the course titled Constitution of India, Professional Ethics and Cyber Law.
<b>Agenda -6</b>	:	<b>To discuss on the course offered by National Power Training Institute Faridabad equivalent to 3 credits of B.E. programme.</b>
<b>Resolution</b>	:	(a) Resolved to consider the online certification course offered by National Power Training Institute, Faridabad to be equivalent to 3 credits of BE/B.Tech programme. (b) The credits earned by students through NPTI online programme shall be considered for the award of Under Graduate degree with Honours. [To be read with the resolution of Table Agenda-12]
<b>Agenda -7</b>	:	<b>Finalize the Scheme and Syllabus submitted by EC/CS/E and IE Composite board prepared for PG Programme M.Tech. in Artificial Intelligence and Machine Learning @VIAT Muddenahalli</b>
<b>Resolution</b>	:	(a) Approved the scheme of teaching and examination, and syllabus of M.Tech in Artificial Intelligence and Machine Learning.

		(b) As, the programme titled M.Tech. in Artificial Intelligence and Machine Learning is not in the list of AICTE Post Graduate Degree in Engineering and Technology, the Registrar shall seek approval for the same from AICTE.
<b>Agenda -8</b>	:	<b>Equivalence of Subjects for the students switching from Non-CBCS to CBCS and vice-versa.</b>
<b>Resolution</b>	:	(a)Board of Studies to prepare programme wise list of equivalent UG courses (UG). (b) Board of Studies to propose equivalent courses for PG programmes case by case when sought by the Registrar, VTU.
<b>Agenda -9</b>	:	i) To discuss and finalize the grouping of course work subject for Ph.D. programme from 2018. ii)To discuss and revise the VTU ETR Syllabus for Ph.D./M.Sc (Engg.) by Research 2018
<b>Resolution</b>	:	i) (a)Each candidate provisionally registered for the Ph.D programme shall have to go through the prescribed coursework choosing four courses out of which the course Research Methodology and IPR shall be compulsory. The remaining three courses shall be pertaining to the candidates research work as decided by the Doctoral Committee. (b) Courses for the coursework shall be selected from the list of courses under six different groups 1 to 6. (c)The groups shall have courses in the relevant areas as approved by the Board of Studies concerned and approved by Academic Council. (d)Each candidate provisionally registered for the M.Sc (Engineering by research) shall have to go through the prescribed coursework choosing six courses out of which the course Research Methodology and IPR shall be compulsory. The remaining five courses shall be pertaining to the candidates research work as decided by the Doctoral Committee. Courses for the coursework shall be selected from the list of courses under six different groups 1 to 6. (ii) The topics for Ph.D. VTU ETR for Ph.D/M.Sc (Engineering) by Research Examinations 2018 shall be covered by Mathematics, Aptitude and Subject of specialization. The syllabus for mathematics and Subjects of specialization shall be furnished by the corresponding Board of Studies. The syllabus for Aptitude shall be framed by Prof. V Keshava Murthy, VTU and Dr.R. Prabhakar, VTU. (iii) The clause Ph.D 14.1 (d) shall be suitably amended to address the decision of JBOS in this regard.

### Table Agenda

With the permission of the chair, the following issues were taken up for discussion

<b>Table Agenda-1</b>	:	<b>Equivalence Certificate for B.E. Electronics and Communication Engineering is equivalent to Electronics Engineering</b>
<b>Resolution</b>	:	B.E. Electronics and Communication Engineering of VTU shall be considered as equivalent to B.E. in Electronics Engineering.



<b>Table Agenda-2</b>	:	<b>Additional requirement for earning 4/5 year Degree Programme Activity points</b>
<b>Resolution</b>	:	Implement AICTE Activity points programme to the 2018-19 scheme students for the award of BE/B.Tech Degree. The Activity of each student to earn the Activity points shall duly be monitored by NSS/NCC/Sports/ Sansad Adarsh Gram Yojana (SAGY) Coordinator or Training and Placement Officer (TPO) of the Institute assisted by the mentors of the students. The Principal shall send the Activity points of each student along with the CIE marks of eighth semester. For the award of degree, every student shall earn the AICTE prescribed Activity points.
<b>Table Agenda-3</b>	:	<b>Proposal for starting M.Tech. Food Technology course. Submitted by Jyothy Institute of Technology, Bangalore</b>
<b>Resolution</b>	:	(a) To inform Jyothy Institute of Technology, Bengaluru to resubmit the proposal for starting M.Tech. Food Technology programme as per the VTU Postgraduate Scheme of Teaching and Examination 2018 -19. (b) Board of Studies in Bio-Technology Board to scrutinize the proposal and submit its recommendation on the application for starting M.Tech. Food Technology programme.
<b>Table Agenda-4</b>	:	<b>Request to change the Nomenclature from Telecommunication Engineering to "Electronics and Telecommunication Engineering".</b>
<b>Resolution</b>	:	(a) Approved to change the existing nomenclature of the programme Telecommunication Engineering to "Electronics and Telecommunication Engineering". (b) Change in nomenclature shall come into effect from the academic year 2019 -20. (c) The degree certificate to show the degree as "Electronics and Telecommunication Engineering" (previously Telecommunication Engineering).
<b>Table Agenda-5</b>	:	<b>Exemption of Constitution of India Professional Ethics and Human Rights of 2015-16 scheme. Who have admitted in 2017-18 scheme.</b>
<b>Resolution</b>	:	Exempt the students who have studied and passed Constitution of India Professional Ethics and Human Rights under 2015-16 scheme and got readmitted to 3 <sup>rd</sup> /4 <sup>th</sup> semester under 2017 scheme. It is also resolved to consider <b>One (1)</b> credit for the same in Grade Card.
<b>Table Agenda-6</b>	:	<b>Recomposite of Mathematics, Aptitude and subject proposed Mathematics 20, Aptitude 10 and subject 70 for Ph.D. Entrance Exam</b>
<b>Resolution</b>	:	The maximum marks for Ph.D. VTU ETR for Ph.D./M.Sc. (Engineering) by Research Examinations 2018 shall be 100 marks. The distribution of marks shall be as indicated below. <ul style="list-style-type: none"> <li>• Questions on Mathematics: 20 Marks</li> <li>• Questions on Aptitude: 20 Marks</li> <li>• Questions on the Subject of specialization: 60 Marks.</li> </ul>
<b>Table Agenda-7</b>	:	<b>Consideration of request not to have Mathematics part for Architecture ETR Ph.D. entrance Test</b>
<b>Resolution</b>	:	(a)The syllabus content of mathematics for Architecture ETR Ph.D. entrance Test shall be Basic Trigonometry and Probability and Statistics.

## 2.2 : Matters Concerning Board of Studies

Item No.2.2.1 of the Agenda of the  
114<sup>th</sup> meeting of the Executive Council  
to be held on 2<sup>nd</sup> August 2014

### CONSIDERATION OF REVISION OF SCHEME & SYLLABUS OF B.E./B.ARCH. PROGRAMMES (2014-15)

The Scheme & Syllabus of UG Programmes were revised during the year 2010-11. As has been the policy of VTU to revamp the Scheme and Syllabus for every 4 years for UG Programme and two years for PG Program, the University has taken up this exercise in revising the Scheme & Syllabus from the academic year 2014-15.

In this connection, the Chairman, BOS of the concerned Boards of Studies have prepared and submitted the final 'Draft Scheme & Syllabus' of I Year B.E. / B.Arch. Programmes to be made effective from 2014-15. However, the same has already been uploaded in the University website for convenient of the students and teaching staff in view of urgency.

Hence, the final 'Draft Scheme & Syllabus' of I Year B.E. / B.Arch. Programmes is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

#### **Resolution No.2.2.1**

**The Executive Council resolved to accept the recommendation of the Academic Senate which recommended to approve the revision of Scheme & Syllabus of B.E. / B.Arch. Programmes from the academic year 2014-15.**

Minutes of the 114<sup>th</sup> Executive Council Meeting held on 2-8-2014 ..... A6

Item No.2.2.3	Consideration of the Regulations Governing the PG Programmes (M. Tech., M.Arch., MBA and MCA) under CBCS at VTU
	<p>The Choice Based Credit System (CBCS) has been introduced in the curriculum of PG courses of VTU since the academic year 2016-17. In this context, new Regulations needed to be framed for the PG programmes of VTU, in place of existing Regulations.</p> <p>The subject of finalisation of Regulations governing different PG programmes under CBCS was discussed in the Joint Board of Studies (JBOS) meeting held on 19-8-2016 and the JBOS has recommended to accept in principle the Common Regulations for all PG programmes, as placed. However, JBOS authorised the Special Invitee Dr. M. S. Shivakumar and Dr.Keshavamurthy, to take note of the observations made during the meeting and recast the CBCS regulations for M.Tech., MCA and MBA programmes of VTU, in line with the structure of already framed B.E./B.Tech. Regulations under CBCS, so that maximum uniformity is maintained across all the PG course regulations.</p> <p>Now, the draft Regulations governing the (i) Master of Technology (ii) Master of Architecture (iii) Master of Business Administration and (iv) Master of Computer Applications as finalised, are placed before the Executive Council for approval as per the provisions of Section 20(n) of VTU Act 1994. If approved the same will be implemented w.e.f 2017-18.</p> <p>The subject is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.</p>
	<p><b>Resolution No.2.2.3</b></p> <p><i>The Executive Council resolved to accept the changes as suggested by the Academic Senate for the draft Regulations Governing the PG Programmes (M.Tech.,M.Arch. MBA, and MCA) under CBCS of VTU. However, the Executive Council resolved to refer these Regulations to the Joint Boards of Studies, as some more modifications were felt necessary, and finalise on the similar lines of Regulations governing CBCS UG Programmes.</i></p>

Executive Council Meeting held on 28-06-2017.....

Item No.3 of the Agenda of the Extra-ordinary 120<sup>th</sup> meeting of the Executive Council to be held on 8-6-2015

**Consideration of Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme.**

The Joint Board of Studies Meeting was held on 27-4-2015 in the VTU's Regional Office, Bengaluru. The Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme were finalized and approved.

The approved Regulations are being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

**Resolution No.3**

**The Executive Council resolved to accept the recommendations of the Academic Senate which recommended to approve the Regulations governing Bachelor of Engineering / Bachelor of Technology as per CBCS Scheme.**

Proceedings of the Extra-ordinary 120<sup>th</sup> Executive Council Meeting held on 8-6-2015 KCP-85

SO/AG *[Handwritten initials]*

**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**REGULATIONS GOVERNING**  
**THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY**  
**(B.E./B.Tech.)**

**DEFINITIONS OF KEY WORDS:**

1. **University:** Visvesvaraya Technological University, Belagavi.
2. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
3. **Semester:** Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from August to January and even semester from February to July.
4. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (*core, elective and Foundation Courses*).
5. **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.
6. **Programme:** An educational programme leading to award of a Degree or certificate.
7. **Course:** Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
8. **Branch:** Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Engineering, etc.
9. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.
10. **Grade Point:** It is a numerical weightage allotted to each letter grade on a 10-point scale.
11. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
12. **Credit Point:** It is the product of grade point and number of credits for a course.
13. **Semester Grade Point Average (SGPA):** It is a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits

taken during that semester. It shall be expressed up to two decimal places.

- 14. Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- 15. First Attempt:** If a student has completed all formalities and become eligible to attend the examinations and has attended at least one head of passing, such attempt (first sitting) shall be considered as first attempt.
- 16. Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

**Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses.

Sequencing Plan for the B.E. / B.Tech. Degree Curriculum

Semesters	Course Coverage
I-II	HSS, BS and ES; Common for all Branches; Mandatory Courses
III-IV	BS Common for all Branches and ES; PS - Core/Elective
V-VII	PS- Core & Electives; Other Electives; Branch-wise Orientation
VIII	PS-Electives/Elective ; Other Electives, Internship, Project work

**Abbreviations:**

HSS - Humanities and Social Sciences

BS - Basic Sciences

ES - Engineering Sciences

PS - Professional Subjects

**Credit Structure for Course Work**

Lectures (hrs/wk /Sem)	Tutorial (hrs/wk/ Sem)	Lab. Work (hrs/wk/Sem)	Credits (Lec:instruction:Lab)	Credits (Total)
4	0	0	4:0:0	4
3	0	0	3:0:0	3
0	1	2	0:1:2	2

**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**REGULATIONS GOVERNING**  
**THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY**  
**(B.E./B.Tech.)**

15OB 1	<b>TITLE AND DURATION OF THE PROGRAMME OF STUDY</b>
15OB 1.1	The program of study shall be called the degree Program of study in Bachelor of Engineering / Technology, abbreviated as B.E. / B.Tech.
15OB 1.2	The program shall be of four academic years duration divided into eight semesters, each semester having duration of 16 weeks. For evening courses the contact hours are to be satisfied by working extra on afternoons of Saturdays and Sundays.
15OB 1.3	The calendar of events in respect of the program of study shall be fixed by the University from time to time.
15OB 1.4	The examination in all programs of study shall be conducted at the end of each semester for all eight semesters.
15OB 2	<b>ELIGIBILITY FOR ADMISSION</b> (The Government orders issued from time to time in this regard shall prevail).
15OB 2.1	Admission to I year / I semester Bachelor Degree in Engineering / Technology shall be open to the students who have passed the second year Pre-University or XII standard or equivalent examination recognized by the University. For the prerequisite qualification earned from foreign countries, Equivalence certificate from the Association of Indian Universities is Mandatory. The decision of the Equivalence committee shall be final in establishing the eligibility of student.
15OB 2.2	In addition to 15OB 2.1, the student shall have secured not less than forty five percent (45%) marks in the aggregate with Physics and Mathematics as compulsory subjects, along with any one of the following subjects, namely, Chemistry, Bio-Technology, Computer Science, Biology and Electronics or as decided by the Government of Karnataka. Provided that, the minimum marks for the purpose of eligibility shall be forty percent (40%) in optional subjects in case of students belonging to SC/ST and OBC students from Karnataka or as decided by the Government of Karnataka. Provided further that, the student shall have studied and passed English as one of the subjects.
15OB 2.3	Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the students <b>Diploma Holders</b> <ul style="list-style-type: none"> <li>• Must have passed diploma or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in the final year examination (fifth and</li> </ul>

	<p>sixth semesters) in the appropriate branch of engineering. In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%).</p> <ul style="list-style-type: none"> <li>• Who have completed their Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka.</li> <li>• Who are seeking admission under lateral entry shall also clear prescribed Bridge courses (Advanced Mathematics – III and IV) and Mandatory subjects (CPH and CIV) as specified by the University.</li> </ul> <p><b>B.Sc. Graduates</b></p> <ul style="list-style-type: none"> <li>• <b>Must have</b> passed B.Sc. degree from a recognized University as defined by the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (including all six semesters). In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%). Should have studied Mathematics as subject of study at XII Standard.</li> <li>• Further, all the B.Sc. students seeking admission to lateral entry shall also clear the following subjects before entering into V Semester <ul style="list-style-type: none"> <li>I. Computer Aided Engineering Drawing (CAED) and</li> <li>II. Programming in C and Data Structures</li> <li>III. CPH and CIV (if not studied at B.Sc. Level).</li> </ul> </li> </ul>
15OB 2.4	<p>Admission to Evening Programme of study shall be open to a student Who on the first day of the term notified by the University for the year of admission has at least one-year professional experience in the branch of engineering / technology, in which the student holds a diploma.</p> <p>Explanation: Professional experience means employment on regular basis</p> <ul style="list-style-type: none"> <li>a. in Government, Government undertaking, Public Sector undertaking, Corporations or</li> <li>b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or</li> <li>c. In Government, Government recognized institutions as technical staff.</li> </ul> <p>Provided that the period of apprenticeship undergone shall also be treated as professional experience, if sponsored by the Board of Apprenticeship Training, Southern Region Chennai or by any Government, Government undertaking or Public Sector undertaking.</p> <p>Provided further that employment shall be in an establishment situated within the urban agglomeration of city in which the professional institution is situated.</p>
15OB 2.5	Those students, who have passed a qualifying examination other than



	the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya Technological University, Belagavi or from the Principal of concerned Engineering College of Karnataka State.
15OB 3	<b>ATTENDANCE REQUIREMENT</b>
15OB 3.1	Each semester is considered as a unit and the student has to put in a minimum attendance of 85% in each Course with a provision of condonation of 10% of the attendance by the Vice-Chancellor on the specific recommendation of the Principal of the college where the student is studying, showing reasonable cause such as medical grounds, participation in University level sports, cultural activities, seminars, workshops, paper presentation, etc.
15OB 3.2	The basis for the calculation of the attendance shall be the number of hours prescribed by the University by its calendar of events. For the first semester students, the same shall be reckoned from the date of admission to the course as per CET allotment.
15OB 3.3	The students shall be informed about their attendance status periodically by the colleges so that the students shall be cautioned to make up the shortage. The Principals of the affiliated Colleges shall submit the list of students who have been detained for shortage of attendance by the end of the semester to the Registrar (Evaluation) with a copy to the Registrar. Provided that mere omission by the college to inform the student about the shortage of attendance shall not entitle him to appear for examination.
15OB 3.4	A student having shortage of attendance in one or more subjects shall have to repeat the whole semester and such students shall not be permitted to take admission to next higher semester. Such students shall take readmission to the same semester in the subsequent academic year.
15OB 3.5	<b>TEMPORARY DISCONTINUATION OF THE PROGRAM:</b> A student, who wishes to temporarily discontinue the program and continue the same subsequently, has to obtain prior permission from the University by applying through the Principal. Such students have to take readmission to the same semester/year in the subsequent academic year. However, the student shall complete the course as per 15OB 6.2.
15OB 4	<b>INTERNAL ASSESSMENT MARKS</b>
15OB 4.1	There shall be a maximum of 20 Internal Assessment Marks in each theory or practical paper. For seminars, the Internal Assessment marks shall be 50.

15OB 4.2	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 <sup>th</sup> and 12 <sup>th</sup> week of each semester. An additional test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks, subject to the provisions of 15OB 4.13. The test shall be answered in Blue Books with pages serially numbered. These blue books shall be kept in the custody of the Principal of the College until after one month from the date of announcement of the result by the University. These shall be made available to University authorities for verification as per the directions of the Registrar (Evaluation)/ Registrar.
15OB 4.3	Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject.
15OB 4.4	If a student remains absent for all the Internal Assessment tests conducted, the Internal Assessment Marks shall be marked as AB for the subject against the University Seat Number (USN) of the student in the marks sheet submitted to the University by the Principal of the College.
15OB 4.5	In the case of a Practical, the IA marks shall be based on the laboratory journals/reports and one practical test.
15OB 4.6	The IA marks for I year Computer Aided Engineering / Drawing: a) 12 marks for class work (sketching and Computer Aided engineering drawing). b) 08 marks for test in the same pattern as that of the main examination (better of the two tests) ii) The IA marks for other Drawings and Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.
15OB 4.7	The IA marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of 8 <sup>th</sup> semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project / seminar guide.
15OB 4.8	The final list, incorporating corrections (if any) of IA marks awarded to the students in the Theory/Practical/Internship/Project work/Seminar, shall be displayed on the notice board of the college at least seven days before the closure of the semester and a certified copy of the same shall be sent by the Principals to the University Examination Section within the stipulated date. Every page of the IA marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.
15OB 4.9	Any corrections or over writing of IA marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall on every sheet indicate the number of corrections and attest it with his signature.

15OB 4.10 (a)	A student failing to secure a minimum of 50% of the IA marks in Practical/Internship/Project work shall not be eligible for the Practical /Internship/Project of the University examination.
15OB 4.10 (b)	For seminars, the minimum requirement of IA marks shall be 40% of the maximum.
15OB 4.11	Such students as mentioned in 15OB 4.10 shall repeat the laboratory work/Internship/project work during the subsequent semester(s) and secure at least the minimum marks prescribed.
15OB 4.12	For theory subjects, there shall not be any minimum requirements of IA marks.
15OB 4.13	Improvement of IA marks shall not be allowed a. In theory subjects and b. In Laboratory/Workshop/Seminar/ Internship / Project where the student has already secured the minimum required marks.
15OB 4.14	IA marks of those students to whom 15OB 4.11 is applicable, shall be sent separately to the Registrar (Evaluation).
15OB 4.15	IA marks shall reach the University before the commencement of examination as per the notification from the office of the Registrar (Evaluation) from time to time. After the submission of Internal Assessment marks to the University, any request for change of IA marks shall not be considered under any circumstances.
15OB 5	<b>ELIGIBILITY FOR PASSING</b> A student who obtained Grades O to E shall be considered as passed and if a student secured "F" grade in any of the head of passing he /she has to reappear for the examination.
15OB 5.1 (a)	For a pass in a theory subject/drawing, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and 40% of marks in the aggregate inclusive of the IA marks. i.e. Minimum Passing Grade is "E".
15OB 5.1 (b)	For a pass in a Practical/Internship/Project/Viva-voce examination, a student shall secure a minimum of 40% of the maximum marks prescribed for the University Examination in the relevant Practical/Internship/Project/Viva-voce. i.e. Minimum Passing Grade in a course is "E".
15OB 5.1 (c)	For a pass in Seminar, a student shall secure a minimum of 40% of the maximum marks prescribed. i.e. Minimum Passing Grade is "E".
15OB 5.2	The students who do not satisfy the condition 15OB 5.1 and the student who remains absent shall be deemed to have failed in that subject and may reappear for the University examination in the subsequent examinations. However, the IA marks awarded to the student/s at first attempt in the concerned theory subject will be carried forward. In case of Practical/Internship/Projects/Seminar revised marks will be taken as per regulations 15OB 4.10 (a & b) and 15OB 4.11.
15OB 5.3	The student who passes a course of a semester as per 15OB 5.1 shall

	not be allowed to appear for the same again, unless he/she opts for rejection of results as per 15OB 5.4, 5.5, 5.6, 5.7 & 5.8.
OB 5.4	A student may, at his/her desire, reject his/her total performance of a semester (including IA marks) or he/she may reject the result of his/her performance in University examination of a semester only. The rejection is permitted only once during the entire course of study.
15OB 5.5	The student who desires to reject the performance as per 15OB 5.4 shall reject performance in all the courses of the semester, irrespective of whether the student has passed or failed in any subject. However, the rejection of performance of 8 <sup>th</sup> semester project result shall not be permitted.
15OB 5.6	A student, who desires to reject the total performance of the semester including Internal Assessment, has to take readmission for the relevant semester. Application for such readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons. Readmission to First semester in such cases shall not be considered as fresh admission i.e., the student will continue to have the same University Seat Number, which was allotted earlier. The course duration permitted (as per 15OB 6) will be counted as per old USN.
OB 5.7	The student, who desires to reject only the results of University examination of a semester and does not desire readmission, shall be permitted to re-appear for examinations of all the subjects of the semester in the subsequent examinations. However, the IA marks obtained by the student in the rejected semester shall be retained. Applications for such rejection shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons. If the rejection of the University examination results of the semester happens to be of the odd semester, the student shall be allowed to take admission to the immediate next even semester. However, if the rejection of the University result is of the even semester, the student shall not be allowed to take admission to the next odd semester (as per 15OB 7.2).
15OB 5.8	Such students who opt for rejection at final year are eligible for the award of class and distinction at the B.E./ B.Tech. degree level, but are not eligible for the award of ranks.
15OB 5.9	A student shall be declared to have completed the program of B.E. / B.Tech., degree, provided the student has undergone the stipulated course work as per the regulations and has earned at least 200 Credits.
15OB 6	<b>MAXIMUM DURATION FOR COURSE COMPLETION</b>
15OB 6.1	A student who has not obtained the eligibility for third semester after a

	<p>period of three academic years from the date of first admission shall discontinue the course. However, the student is eligible for readmission for first year B.E./B.Tech. in respective College of the University and he/ she shall be allotted a University Seat Number (USN) without any change in the year of admission in the USN but the serial number of the student shall start with six hundred (6XX) series in the same branch.</p>
15OB 6.2	<p>The student admitted to 1<sup>st</sup> year B.E./ B.Tech. shall complete the course within a period of eight academic years from the date of first admission, failing which he/she has to discontinue the course.</p> <p>The students admitted under lateral entry scheme (2nd Year B.E./B.Tech.) shall complete the course within a period of six academic years from the date of first admission, failing which he/she has to discontinue the course.</p>
15OB 7	<p><b>PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS</b></p>
15OB 7.1	<p>There shall not be any restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.</p>
15OB 7.2	<p>A student shall be eligible for promotion from an even semester to the next odd semester (i.e. of the next academic year) if the student has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the subjects of all the lower semester examinations. A theory or practical shall be treated as a head of passing.</p> <p><b>Illustrations</b></p> <ol style="list-style-type: none"> <li>A student seeking eligibility to 3<sup>rd</sup> semester should not have failed in more than 4 heads of passing of first and second semesters taken together.</li> <li>A student seeking eligibility to 5<sup>th</sup> semester should have passed in all the subjects of 1<sup>st</sup> and 2<sup>nd</sup> semesters and should not have failed in more than 4 heads of passing of third and fourth semesters taken together.</li> <li>A student seeking eligibility to 7<sup>th</sup> semester should have passed in all the subjects up to 4<sup>th</sup> semester and should not have failed in more than 4 heads of passing of 5<sup>th</sup> and 6<sup>th</sup> semesters taken together.</li> </ol> <p><b>The Subjects:</b></p> <ol style="list-style-type: none"> <li>Constitution of India, Professional Ethics and Human Rights, and</li> <li>Environmental Studies</li> </ol> <p>are Mandatory Non-Credit Courses; these subjects shall not be considered for the Eligibility for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above subjects is mandatory before the completion of Degree.</p>
15OB 8	<p><b>COURSES</b></p>

15OB 8.1	<p>There will be Four types of courses</p> <p><b>(i) Core Courses:</b> This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirements of a program in a said discipline of study. These courses will have 4 credits per course.</p> <p><b>(ii) Foundation Courses:</b> The Foundation Courses are of two kinds: <i>Compulsory Foundation</i> and <i>Elective foundation</i>.</p> <p>“Compulsory Foundation”: These courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines. These courses will have 4 credits per course.</p> <p>“Foundation Electives”: These are value based courses aimed at man making education. These courses will have 3 credits per course.</p> <p><b>(iii) Elective Courses:</b> This is course, which can be chosen from the pool of papers. It may be supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline / domain / nurturing student proficiency skills. These courses will have 3 credits per course.</p> <p><b>(iv) Mandatory Non-Credit Courses:</b> These courses are mandatory for students joining B.E./B.Tech. Program and students have to successfully complete these courses before the completion of degree.</p>
15OB 8.2	The minimum number of students to be registered for an Elective to be offered shall be not less than ten.
15OB 8.3	A student shall exercise his option in respect of the electives and register for the same at the beginning of the concerned semester. The student may be permitted to opt for change of elective subject within 15 days from the date of commencement of the semester as per the calendar of the University.
15OB 9	<b>INTERNSHIP</b>
15OB 9.1	<p><b>Internship:</b> The student shall undergo an Internship for 8 weeks i.e. starting from the end of 7<sup>th</sup> semester Examination after availing one week vacation and completing during the initial period of 8<sup>th</sup> semester.</p> <ol style="list-style-type: none"> <li>1. The college shall nominate a faculty for a group of students to prepare the students for internship.</li> <li>2. The students shall report the progress of the internship to the guide in regular intervals and may seek his/her advise.</li> <li>3. The Internship shall be completed between 7<sup>th</sup> and 8<sup>th</sup> semesters.</li> <li>4. After completion of 7<sup>th</sup> semester Theory and Practical examinations, the students shall have one week vacation.</li> <li>5. Immediately after availing one week vacation, the students shall undergo internship (without waiting for the results) which may be a period of 4/5 weeks.</li> </ol>

6. The remaining period of internship; i.e. 4/3 weeks shall be completed during the initial period of the 8<sup>th</sup> semester.
7. After completion of Internship, students shall submit a report to the college with the approval of both internal and external guides.
8. There will be 50 IA and 50 External marks for Internship.
9. The guide shall be the internal examiner and IA marks out of 50 are to be awarded by the internal guide after evaluating the Internship Report submitted by the student.
10. Viva-Voce on internship shall be conducted at the college and the date of Viva-Voce shall be fixed in consultation with the external Guide.
11. Viva-Voce on internship shall be conducted by both internal and external guides and jointly evaluate the internship report for 50 marks. The expenses of external guide are to be borne by the student/college.
12. In case of the non availability of external guide for the conduct of viva-voce, the Principal shall appoint a senior faculty of the department to conduct viva-voce along with the internal guide, and they jointly evaluate the internship report for 50 marks.
13. The students are permitted to carry out the internship outside India with the following conditions:
  - a. The entire expenses are to be borne by the student or college and the University will not give any financial assistance.
  - b. The Internal Guide has to visit at least once during the student's internship; the expenses of the visit are to borne by the student/college.
  - c. The external guide from the industry has to be an examiner for the viva voce on Internship, and the expenses are to be borne by the student/ college.
  - d. The University will not provide any kind of Financial Assistance to any student for internship and for the conduct of Viva-Voce on internship.

15OB9.2	<b>Report on Internship:</b> The College shall facilitate and monitor the student internship program. The internship report of each student shall be submitted to the Head of the Department of the college with the approval of the Guide.																											
15OB9.3	<b>Failing to undergo Internship:</b> Completion of internship is mandatory; if any student fails to complete internship, he/she will not be eligible for the award of degree.																											
15OB9.4	<b>Non-completion of Internship:</b> In such cases, the student has to redo the internship.																											
15OB 10	<b>SEMINAR AND PROJECT</b>																											
15OB 10.1	Seminar topic shall be selected from the emerging technical areas only.																											
15OB 10.2	Project work at 8 <sup>th</sup> semester shall be completed batch wise, each batch consisting of minimum of two students and maximum four students.																											
15OB 10.3	<i>Viva-voce</i> examination in project work shall be conducted batch-wise.																											
15OB 11	<b>COMPUTATION OF SGPA AND CGPA</b>																											
	<p>i. The VTU adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester.</p> <p>ii. The grading system is with the following letter grades as given below:</p> <p><b>Grades and Grade Points</b></p> <table border="1"> <thead> <tr> <th>Level</th> <th>Out-standing</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Poor</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td><b>Letter Grade</b></td> <td><b>O</b></td> <td><b>S</b></td> <td><b>A</b></td> <td><b>B</b></td> <td><b>C</b></td> <td><b>D</b></td> <td><b>E</b></td> <td><b>F</b></td> </tr> <tr> <td><b>Grade Points</b></td> <td><b>10</b></td> <td><b>9</b></td> <td><b>8</b></td> <td><b>7</b></td> <td><b>6</b></td> <td><b>5</b></td> <td><b>4</b></td> <td><b>00</b></td> </tr> </tbody> </table> <p>iii. A student obtaining Grade "F" shall be considered failed and will be required to reappear in the examination. Such students after passing the failed subject in subsequent examination/s will be awarded with "E" grade irrespective of marks he/she scores in the subsequent examination/s. Number of attempts taken to clear a subject/s shall be shown in the transcripts.</p>	Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail	<b>Letter Grade</b>	<b>O</b>	<b>S</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>Grade Points</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>00</b>
Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail																				
<b>Letter Grade</b>	<b>O</b>	<b>S</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>																				
<b>Grade Points</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>00</b>																				



### Grade Points Scale

Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail
Letter Grade	O	S	A	B	C	D	E	F
Grade Points	10	9	8	7	6	5	4	00
Score (Marks) Range (%)	≥ 90	<90	< 80 ≥70	< 70 ≥60	< 60 ≥50	< 50 ≥45	<45 ≥40	< 40

### **Computation of SGPA and CGPA**

The following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

where  $C_i$  is the number of credits of the  $i^{\text{th}}$  course and  $G_i$  is the grade point scored by the student in the  $i^{\text{th}}$  course.

- ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

where  $S_i$  is the SGPA of the  $i^{\text{th}}$  semester and  $C_i$  is the total number of credits in that semester.

- iii. The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.

**Illustration for Computation of SGPA and CGPA**

**Computation of SGPA**

**Illustration No.1**

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 = 32
Course 2	4	C	6	4x6 = 24
Course 3	4	B	7	4x7 = 28
Course 4	3	O	10	3x10= 30
Course 5	3	D	4	3x4 = 12
Course 6	3	C	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	C	6	2x6 = 12
	25			174

Thus, **SGPA= 174/25=6.96**

**Illustration No.2**

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 = 32
Course 2	4	C	6	4x6 = 24
Course 3	4	B	7	4x7 = 28
Course 4	3	O	10	3x10= 30
Course 5	3	F	0	3x0 = 00
Course 6	3	C	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	C	6	2x6 = 12
	25			162

Thus, **SGPA= 162/25=6.48**

**Illustration No.2(a)**

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 5	3	E	4	3x4 =12
	25			Ci (First Attempt)162 + Ci (subsequent attempt) 12= 174

Thus, **SGPA= 174/25=6.96**

**Illustration No.3**

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 =32
Course 2	4	C	6	4x6 =24

Course 3	4	B	7	4x7 =28
Course 4	3	O	10	3x10=30
Course 5	3	S	9	3x9 =27
Course 6	3	C	6	3x6 =18
Course 7	2	S	9	2x9 =18
Course 8	2	C	6	2x6 =12
	25			189

Thus, **SGPA= 189/25=7.56**

$$CGPA = \frac{25 \times 6.96 + 25 \times 7.56}{50} = 7.26$$

**CGPA after Final Semester**

Sem. - 1	Sem. - 2	Sem. - 3	Sem. - 4	Sem. - 5	Sem. - 6	Sem. - 7	Sem. - 8
Credit : 24 SGPA:7	Credit:24 SGPA:8.5	Credit : 27 SGPA:9.2	Credit : 27 SGPA:6.86	Credit :24 SGPA:8.18	Credit : 24 SGPA:7.73	Credit : 24 SGPA:8.68	Credit : 26 SGPA:9.4

Thus, **CGPA=  $\frac{24 \times 7 + 24 \times 8.5 + 27 \times 9.2 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.4}{200} = 8.2$**

**Transcript (Format):** Based on the above recommendations on Letter grades, grade points, SGPA and CCPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters may be issued.

15OB 12

**CONVERSION OF GRADES INTO PERCENTAGE:**

Conversion formula for the conversion of GPA into Percentage is [CGPA Earned - 0.75] x 10= Percentage of marks scored.

**Illustration:** [CGPA Earned 8.2 - 0.75]x 10 = 74.5%

15OB 13

**AWARD OF PRIZES, MEDALS & RANKS**

15OB 13.1

For the award of Prizes and Medals, the conditions stipulated by the Donor may be considered subject to the provisions of the statutes framed by the University for such awards.

15OB 13.2

For award of ranks in a branch, a minimum of 10 students should have appeared in the 8<sup>th</sup> semester examination. The total number of ranks awarded shall be 10% of total number of students appeared in 8<sup>th</sup> semester or 10 students, whichever is less in that branch.

Illustration:

1. If 1028 students appeared for the 8<sup>th</sup> semester in Electronics and Communication Engineering Branch, the number of ranks to be awarded for Electronics and Communication Engineering will 10.
2. If 90 students appeared for the 8<sup>th</sup> semester in Biomedical Engineering Branch, the number of ranks to be awarded for Biomedical Engineering will be 09.

15OB  
13.3

For award of rank in a branch of Engineering / Technology, the CGPA secured by the student from

- a) 1<sup>st</sup> to 8<sup>th</sup> semester for the students admitted to B.E./B.Tech. Program from 1<sup>st</sup> year, and

	<p>b) 3<sup>rd</sup> to 8<sup>th</sup> semester for the students admitted to B.E./B.Tech. Program from 2<sup>nd</sup> year (Lateral Entry) shall be considered.</p> <p>A student shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the student</p> <p>a. Has passed 1<sup>st</sup> to 8<sup>th</sup> (students joining from 1<sup>st</sup> semester) or 3<sup>rd</sup> to 8<sup>th</sup> (in case of lateral entry) semester in all the subjects in first attempt only</p> <p>b. Has not repeated/rejected any of the lower semesters.</p>
15OB 13.4	<p>If two students get the same CGPA, the tie should be resolved by considering the number of times a student has obtained higher SGPA; but, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, S, A, B etc shall be taken into account in rank ordering of the students in a program.</p>
15OB 14	<b>TRANSFER OF STUDENTS</b>
15OB14.1	<p>Transfer of students from one college to another college within Karnataka state shall be permitted only at the beginning of third, fifth, and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges and subject to the prior approval of the University and the provisions of 15OB 7.2.</p> <p>In the case of students from Universities other than VTU the students should have passed in all the courses of 1<sup>st</sup> &amp; 2<sup>nd</sup> semesters for admission to 3<sup>rd</sup> semester and all the courses of 1<sup>st</sup> to 4<sup>th</sup> semesters for admission to 5<sup>th</sup> semester and all the courses of 1<sup>st</sup> to 6<sup>th</sup> semesters for admission to 7<sup>th</sup> semester.</p> <p>The students seeking admission from Universities other than VTU shall have to</p> <p>a. apply for establishment of equivalence with prescribed fees as notified by the VTU and</p> <p>b. Obtain No Objection for admission from the university before commencement of term as notified by VTU.</p>
15OB14.2	<p>Transfer of students within the College from one branch to another branch at 3<sup>rd</sup> semester shall be permitted with the prior approval of the VTU and subject to the provisions made by the Government of Karnataka and AICTE in this behalf.</p>
15OB14.3	<p>The University may prescribe fee for administrative purpose (for updating of the records), which shall be notified from time to time, for transfer from one college to another (Change of College) or one branch to another branch (change of branch within the college).</p>

\*\*\*\*\*

**NOTE:** *These regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be binding on all and may be modified from time to time.*



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018

Phone: (0831) 2405468

Fax : (0831) 2405467

REGISTRAR

Ref. No. VTU/Aca/A6/2014-15/2458

Date: 4 JUL 2015

## NOTIFICATION

**Sub : Introduction of Choice Based Credit System (CBCS) from the academic year 2015-16.**

- Ref :**
1. UGC Letter No. D. O. No. F.1-1/2015(CM), dated 8.1.2015.
  2. Resolution No. 3, of 120<sup>th</sup> Executive Council meeting dated, 8.6.2015

As per the directions of University Grants Commission, New Delhi, under reference (1) above, the **Choice Based Credit System (CBCS) is introduced from the academic year 2015-16 for B.E./B.Tech. Programs.**

The **Regulations** Governing Degree of Bachelor of Engineering/Technology, and Scheme and **Syllabus for First and Second Semester** are **displayed on the University website** for immediate reference.

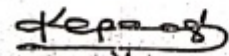
The contents of this notification may kindly be brought to the notice of all the concerned.

By Order,  
Sd/-  
REGISTRAR

To,  
The Principals of ~~Affiliated~~ **Affiliated Engineering Colleges.**

Copy FWCs to:

1. The Registrar (Evaluation), VTU Belgaum, for information
2. The Special Officers of VTU Regional Offices, for information.
3. The Secretary to VC, VTU Belgaum, for information.

  
REGISTRAR

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	PHYSICS GROUP Examination Marks			Credits
							Th./Pr.	I.A.	Total	
							1	14MAT11	Engineering Maths-I	
2	14PHY12	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	14CIV13	Elements of Civil Engg. & Engineering Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	14EME14	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	14ELE15	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	14WSL16	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	14PHYL17	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	14CIP18	*Constitution of India & Professional Ethics and Human Rights (CPH)	HS	Humanities		2 (Tutorial)	80	20	100	1
9		Language (Kan.)	Mandatory learning	Humanities		1 (T)	-	-	-	--
						29	640	160	800	25

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM**  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION 2015-2016**

II SEMESTER B.E./B.TECH.

**PHYSICS GROUP**

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	14MAT21	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	14PHY22	Engineering Physics	BS	Physics	Basic Sc.	4 (T)	80	20	100	4
3	14CIV23	Elements of Civil Engg. & Engineering Mechanics	ES	Civil Engg.	Civil Engg.	4 (T)	80	20	100	4
4	14EMEB24	Elements of Mechanical Engg.	ES	Mech. Engg.	Mech. Engg.	4 (T)	80	20	100	4
5	14ELE25	Basic Electrical Engg.	ES	E & E	E & E	4 (T)	80	20	100	4
6	14WSL26	Workshop Practice	ES	Mech., Auto, IP, IEM, Mfg. Engg.	Mech. Engg.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
7	14PHYL27	Engg. Physics Lab	BS	Physics	Basic Sc.	3(2 hrs lab+ 1 hr instruction)	80	20	100	2
8	14CIP28	*Constitution of India & Professional Ethics and Human Rights	HS	Humanities		2 (Tutorial)	80	20	100	1
9		Language (Eng.)	MNC	Humanities		1 (T)	-	-	-	--
						29	640	160	800	25

**CHOICE BASED CREDIT SYSTEM (CBCS)  
SCHEME OF TEACHING AND EXAMINATION 2015-2016**

**I SEMESTER B.E./B.TECH.**

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	CHEMISTRY GROUP Examination Marks			Credits
							Th./Pr.	I.A.	Total	
							1	14MAT11	Engineering Maths-I	
2	14CHE12	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	14PCD13	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	14CED14	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	14ELN15	Basic Electronics	ES	E & C / E & E / TC / IT	E & C	4 (T)	80	20	100	4
6	14CPL16	Computer Programming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial )	80	20	100	2
7	14CHEL17	Engg. Chemistry Lab	BS	Chemistry	Basic Sci.	3(2 hrs lab+ 1 hr Tutorial )	80	20	100	2
8	14CIV18	*Environmental Studies	HS	Civil / Environmental	Civil	2 (Tutorial)	80	20	100	1
9		Language (Kan.)	MNC	Humanities		1 (T)	-	-	-	--
Total						31	640	160	800	25

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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM**  
**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**SCHEME OF TEACHING AND EXAMINATION 2015-2016**

**II SEMESTER B.E./B.TECH.**

**CHEMISTRY GROUP**

Sl. No.	Subject Code	Subject		Teaching Department	Board	Theory /Lab/ Drawing (Hrs/ Week)	Examination Marks			Credits
							Th./Pr.	I.A.	Total	
1	14MAT21	Engineering Maths-I	BS	Maths	Basic Sc.	4 (T)	80	20	100	4
2	14CHE22	Engineering Chemistry	BS	Chemistry	Basic Sc.	4 (T)	80	20	100	4
3	14PCD23	Programming in C & Data Structures	ES	Any Engineering Department	CSE	4 (T)	80	20	100	4
4	14CED24	Computer Aided Engineering Drawing	ES	Mech./IP/Auto/ Mfg.Engg./ IEM	Mech. Engg.	6 (2I+ 4P)	80	20	100	4
5	14ELN25	Basic Electronics	ES	E & C / E & E /TC / IT	E & C	4 (T)	80	20	100	4
6	14CPL26	Computer Program--ming Lab	ES	Any Engineering Department	CSE	3(2 hrs lab+ 1 hr Tutorial )	80	20	100	2
7	14CHEL27	Engg. Chemistry Lab	BS	Chemistry	Basic Sc.	3(2 hrs lab+ 1 hr Tutorial )	80	20	100	2
8	14CIV28	Environmental Studies	HS	Civil / Environmental	Civil	2 (Tutorial)	80	20	100	1
9		Language (Eng.)	MNC	Humanities		1 (T)	-	-	-	--
Total						31	640	160	800	25

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**Proceedings of the Meeting of Joint Board of Studies held on 11<sup>th</sup> July 2016 at VTU Regional Office, Bengaluru 11.00 a.m.**

The Joint Board of Studies meeting was convened on 11<sup>th</sup> July 2016 to discuss on the following agenda:

1. Finalization of III and IV Semester UG Scheme and Syllabus based on CBCS and Bloom's Taxonomy,
2. Finalization of PG Scheme and Syllabus based on CBCS and Bloom's Taxonomy,,
3. Internship Programme for QIP and Part Time Students,
4. Internship and Project for the Part Time PG students,
5. Adding Electives in Engineering physics suggested by few faculty members.
6. Any other matter with the permission of the chair.

The Registrar, Dr. H.N. Jagannath Reddy formally welcomed Hon'ble Vice-Chancellor Dr. V. Sridhar and Chairmen of newly formed Boards of Studies, also Special invitee Dr. M.S. Shivakumar and requested Hon'ble Vice-Chancellor for further proceedings.

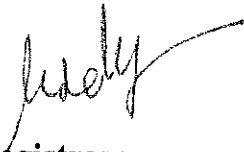
Hon'ble Vice-Chancellor once again welcomed Chairmen of newly formed Boards of Studies and Special invitee Dr. M.S. Shivakumar. Hon'ble Vice-Chancellor addressed regarding feedback received from faculty and other stake holders about revised Schemes and Syllabus to be adopted from 3<sup>rd</sup> to 8<sup>th</sup> semesters and PG programmes. The Hon'ble Vice-Chancellor requested Hon'ble members for discussions and deliberations. After detailed deliberations the following resolutions were made.

- UGC introduced CBCS to bring uniformity among all universities but in totality the system works in Autonomous colleges and deemed universities. However, university is adopting the same with certain modifications, in this regard.
- Regulations governing the CBCS to be reviewed and incorporated.
- Registration process and dropping of courses are not included in regulations.
- Committee shall be formed to review regulations governing CBCS.
- Resolved to adopt letter grades and guidelines as defined by AICTE regarding CBCS.
- No electives at 3<sup>rd</sup> and 4<sup>th</sup> semester levels. Electives are offered from 5<sup>th</sup> semester onwards with open elective concept one each in 5<sup>th</sup> and 6<sup>th</sup> semesters.
- 6 Theory and 2 Labs to be introduced in all semesters (UG).

- The Scheme for 3<sup>rd</sup> and 4<sup>th</sup> semester UG programme and for PG Programme has been finalized (Annexure I).
- Textile board is permitted to follow the existing course structure.
- Review on CIP and CIV courses and nature of examination conduct may be taken up during next syllabus review during 2019-20.
- Internship exams are to be carried out like practical exams i.e. if examiner is not available from industries, an external examiner may be called from counterpart colleges. Internship to be conducted during vacation period only.
- Part-time and QIP PG programs students have to take up internship during vacation if candidate is from teaching fraternity and if candidate from industry has to carryout work in industry other than where the candidate is working.
- Some weightage shall be given for publications in the M.Tech. Thesis evaluation.
- To download the curriculum of other reputed universities / institutions and refer for framing the curriculum and scheme for higher semesters.

Meeting was concluded with the thanks by the Registrar, Dr. H.N. Jagannatha Reddy also he requested all board chairmen to finalize the Scheme and syllabus within 20<sup>th</sup> July 2016.

**Dean, Faculty of Engineering:**



**Registrar:**

**Vice-Chancellor:**



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**Visvesvaraya Technological University, Belagavi**

**Proceedings of the Joint Board of Studies meeting held on 19<sup>th</sup> August 2016 at VTU  
Regional Office, Bangalore**

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**Members Present:**

1. Dr. V. Sridhar, Vice Chancellor and the Chairman, JBoS
2. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU
3. Dr. M. S. Shivakumar, Hon'ble Executive Council Member, VTU, Special Invitee
4. Dr. Omprakash S Bawane, Chairman, BOS in Architecture
5. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences
6. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology
7. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science
8. Dr. Aswath M. U., Chairman, BOS in Civil Engg.
9. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C
10. Dr. B. R. Lakshmikanth, Chairman, BOS in E & E
11. Dr. M. C. Jagath, Chairman, BOS in IPE
12. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering
13. Dr. U. Bhojanna, Chairman, BOS in Business Administration
14. Dr. R. P. Reddy, Chairman, BOS in Mech. Engineering
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology
16. Dr. Vasudev T, Chairman BOS in MCA
17. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology
18. Dr. Keshava Murthy, Special Invitee.

**Agenda:**

1. Finalization of PG Programme Regulations under CBCS.
2. Finalization of PG Programme syllabus under CBCS.
3. Discussion on scheme to be followed by detained students joining the 3<sup>rd</sup> semester from conventional system.
4. Discrepancies in M.Tech 3<sup>rd</sup> Semester Internship Marks under CBCS.
5. Equivalence of UG Courses.
6. Any other matter with permission of the chair.

**Minutes of the Meeting:**

Dr. H.N. Jagannatha Reddy, Registrar, VTU, formally welcomed Dr. V. Sridhar, Hon'ble Vice-Chancellor and Chairman of Joint Board of Studies, VTU, Special invitees Dr. M.S. Shivakumar & Dr. Keshavamurthy and all the members to the meeting. He also also requested the Hon'ble Vice-Chancellor to Chair and to conduct the proceedings of the meeting.

The Hon'ble Vice-Chancellor on his behalf welcomed the members and briefed about the action taken on the resolutions of the previous JBoS meeting held on 11<sup>th</sup> July 2016. He requested

members to deliberate on the agenda and make recommendations. After detailed deliberations the following resolutions were made.

**1. Agenda item 1: Finalization of PG Programmes Regulations under CBCS:**

The committee reviewed the PG Regulations placed on the table and noted that:

- i) The procedure for registration and dropping of courses were not specified in the Regulations.
- ii) Evaluation procedure for Internship is to be similar to that of practical exams i.e. if examiner is not available from industries an external examiner may be called from other Colleges.
- iii) As lateral entry admission at 2<sup>nd</sup> year level of course in UG and MCA programs are permitted, the rank declaration for the courses have to be made by considering the results starting from 2<sup>nd</sup> year level of the course.

**Resolution:** Resolved to accept in principle the Common Regulations under Choice Based Credit System for all PG programs as placed on the table. However, the Committee authorized the Special Invitees Dr. M.S. Shivakumar and Dr. Keshavamurthy, to take note of the above observations and recast the CBCS regulations for M.Tech., MCA and MBA inline with the structure of the already approved BE/ B.Tech. Regulations under CBCS system, so that uniformity is maintained across all the PG course Regulations to the extent as far as possible.

**2. Agenda item 2: Finalization of PG Programmes syllabus under CBCS:**

**Resolution:** Resolved to approve the Scheme and Syllabus of all M.Tech., MCA and MBA programmes as recommended by the respective Board of Studies.

**3. Agenda item 3: Discussion on scheme to be followed by detained students joining the 3<sup>rd</sup> semester from conventional system:**

**Resolution:** The failed/discontinued students taking readmission/joining the CBCS scheme shall follow the prevailing CBCS scheme and the marks obtained by them in the earlier semesters shall be converted into corresponding letter grades using the present Regulations.

**4. Agenda item 4: Discrepancies in M.Tech. 3<sup>rd</sup> Semester Internship Marks under CBCS:**

**Resolution:** Resolved to make modifications and incorporate the same the Scheme of Teaching and Examination.

**5. Agenda item 5: Equivalence of UG Courses:**

**Resolution:** A committee shall be constituted to frame guidelines for declaring equivalence of the UG courses for the purpose of employment and higher studies.

**6. Agenda item 6:** Any other matter with permission of the chair:

The subjects proposed by the members were discussed and the Committee resolved as follows:

- (a): Because the CBCS scheme is being newly introduced in the University, the Institutions shall take necessary steps to educate the students at regular intervals regarding passing standards and promotion criteria.
- (b): In the BE/B.Tech Courses, a student shall complete the mandatory courses like MATDIP, CIV and CIP before obtaining admission to final year of the course.
- (c): The dissertation reports of UG and PG programs printed on both sides of the sheet shall be accepted by the University. However, for the Ph.D and M.Sc (Engg) thesis the prevailing regulation shall continue.
- (d): Resolved to include the Chairman, Board of Studies, as Co-opted member in the respective Board of Examiners.
- (e): Regional level workshops shall be organized for Faculty to train them for writing effective Course Outcome statements and setting question papers helpful in assessing Program Outcomes as per NBA requirement.
- (f): Regional level workshops shall be organized for Principals, HODs and Senior Faculty to educate them for smooth implementation of CBCS scheme in their respective Institutions.

The meeting concluded with the thanks to the Chair by the Registrar, Dr. H.N. Jagannatha Reddy, and he also requested all the BOS Chairmen to finalize the Scheme and Syllabus for PG programs in the format provided by the University and submit to the University within a week, as PG classes are notified to commence from 1<sup>st</sup> September 2016.

  
**Registrar**

## Proceedings of the Joint BoS meeting held on 06<sup>th</sup> March 2017 at VTU, Belagavi

### Members Present:

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi.
2. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
3. Dr. K. Ramachndra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
4. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
5. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi.
6. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7. Dr. K.B. Prakash in place of Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi.
10. Dr. B. R. Lakshmikanth, Chairman, BOS in E & E of VTU, Belagavi.
11. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
12. Dr. Manjunath in place of Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
13. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
14. Dr. Ramakrishna in place of Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
16. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
17. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
18. Prof. Keshava Murthy, Special Invitee.
19. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi
20. Dr. K.R.Mulla in place of Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi
21. Dr. Sateesh Annigeri, Registrar(Evl). VTU, Belagavi

### Agenda:

1. **Modifications in the Regulation pertaining to allotment of credits.**
2. **Review of CBCS 2016-17 Regulations**
  - i. 16 OB 6.1 (iii),
  - ii. 16 OB 9.1(3)
  - iii. 16 OB 11.3
3. **Applicability of Regulations governing B.E/B.Tech under CBCS 2016-17**
4. **Revision of mandatory subjects like 'Management'**
5. **Admission to vacant seats of PG Courses**
6. **NCC as an Elective subject**
7. **Mobile Development Application as inter disciplinary courses.**
8. **Revision of Research Methodology for Ph.D. Program**
9. **Any other matter with the permission of the chair.**

**Minutes of the Meeting:**

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairmen of Board of Studies and also Special invitee Prof.. Keshavamurthy, He requested Hon'ble Vice- Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members The Hon'ble Vice-Chancellor requested members for discussions and deliberations. After detailed deliberations the following resolutions were made.

**Agenda -1** : Modifications in the Regulation pertaining to allotment of credits.

**Resolution** : It is resolved to teach Kannada language and Constitution of India, Professional Ethics and Human Rights during 3<sup>rd</sup> and 4<sup>th</sup> semesters with one credit each by adjusting credits of 3<sup>rd</sup> and 4<sup>th</sup> Semesters on cycle base concept i.e., 50% of branches of the Institute shall opt Kannada language in 3<sup>rd</sup> Semester and remaining 50% of branches shall opt Constitution of India, Professional Ethics and Human Rights, vice-versa in 4<sup>th</sup> Semester respectively. The scheme is enclosed (**Annexure-1**). The same is in effect from 2017-18 batch. Also Kannada language and Constitution of India, Professional Ethics and Human Rights shall be considered for the eligibility criterion prescribed for promotion.

It is also resolved that, Internal Assessment Marks in each theory course shall be the sum of marks prescribed for test and assignment. Marks prescribed for test shall be 15 and that for assignment be 05.

The Internal Assessment marks for test in a theory course shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a minimum of 15 marks and the final test marks shall be the average of three tests, proportionally reduced to a maximum of 15 marks.

The remaining 05 marks shall be awarded based on the evaluation of Assignments/Unit tests/Written Quizzes that support to cover some of the course/program outcomes. Final marks awarded shall be the sum of these two out of maximum of 20 marks.



- Agenda -2** : Review of CBCS 2016-17 Regulations  
i. 16 OB 6.1 (iii),  
ii. 16 OB 9.1(3)  
iii. 16 OB 11.3

**Resolution** : i). The regulation 16 OB 6.1 (iii) reads as, "*A student obtaining Grade "F" in a course shall be considered failed and is required to reappear in subsequent SEE. Number of attempts taken to clear a course shall be indicated in the grade cards/ transcripts.*"

It is resolved to award the grade secured by the student during his/her reattempt.

ii). The regulation 16 OB 9.1 (2 & 3) reads as,

*"A student will be declared successful at the Semester-end or Programme-end only on obtaining each SGPA and CGPA is greater than or equal to 5.00, with none of the courses registered in a Semester/s remaining with "F" Grade."*

*"In case, the SGPA/ CGPA fall below 5.00, the student shall be permitted to appear again for SEE for required number of course/s (other than seminar and Practical) and times, subject to the provision of 16OB1.5, to make up SGPA greater than or equal to 5.0. The student should reject the SEE results of the previous attempt and obtain written permission from The Registrar (Evaluation) to reappear in the subsequent SEE".*

It is resolved to consider passing standard of SGPA/CGPA of 5.00 from the 2016-17 batch, however SGPA/CGPA falling below 5.00 cannot be considered for vertical progression, however candidate shall be declared successful by achieving final CGPA of 5.00.

Also it is resolved that, a student is allowed to reappear for maximum 4 Courses per semester i.e. maximum of 16 credits in case SGPA/CGPA falls below 5.00

iii). The Mandatory non – credit courses for all kind of Lateral Entry students viz., Environmental Studies, Advanced mathematics III and IV , Computer Aided Engineering Drawing and Programming in C and Data structure shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above courses is mandatory before the completion of Degree.

- Agenda -3** : Applicability of Regulations governing B.E/B.Tech under CBCS 2016-17
- Resolution** : It is resolved that, Regulations governing B.E/B.Tech under CBCS 2016-17 are in effect from 2015-16 batch.
- Agenda -4** : Revision of mandatory subjects like 'Management'.
- Resolution** : Respective Board of Studies authorized to revise the contents as per the needs by considering the proposal given by Sri Sharth Arun on Project Management Methodologies.
- Agenda -5** : Admission to vacant seats of PG Courses
- Resolution** : It is resolved that, seats remaining vacant(unfilled), after the completion of PG admission process by Karnataka Examination Authority, shall be filled by the Institution by inviting applications through Press notification. The seats shall be filled by Candidates preferably who have valid GATE/PGCET score. In the absence of such Candidates, admission shall be based on merit in the entrance test conducted at the Institution level. By constituting an Admissions Committee, consisting of the Principal of the College, Head of the concerned Department and the subject experts.
- Agenda -6** : NCC as an Elective subject
- Resolution** : NCC shall be included as an open Elective subject at 5<sup>th</sup> semester level. A student can opt this as an elective subject to satisfying the prerequisites. Dr. H.C. Nagaraj, Dean, Faculty of Engineering, VTU, Belagavi is requested to frame the modalities and syllabus as per UGC guidelines.
- Agenda -7** : Mobile Development Application as inter disciplinary courses.
- Resolution** : Mobile Development Application shall be included as an open Elective subject at 6<sup>th</sup> semester level. Dr. Basavaraj Anami, Chairman BoS in CSE/ISE board is requested for framing syllabus.
- Agenda -8** : Revision of Research Methodology for Ph.D. Program.
- Resolution** : Dr. H.C. Nagaraj, Dean, Faculty of Engineering, VTU, Belagavi, is requested to revise the Research Methodology syllabus for Ph.D. Program.

### **Table Agenda**

**With the permission of the chair, the following issues taken up for discussion**

**Table Agenda-1** : Review and Revision of curricula once in three years.

**Resolution** : It is resolved to write a letter to UGC stating that, Review and Revision of curricula in the University is once in four years and two years for UG and PG Programs respectively as all UG Programs are of 4 years duration and PG of 2years duration.

**Table Agenda-2** : Approval of five years integrated degree in Engineering & Technology program leading to Master of Technology (M.Tech.)

**Resolution** : The matter is deferred.

**Table Agenda-3** : Equivalence of UG courses. As per the EC resolutions the courses are considered as equivalent except for teaching career.

Course	Considered Equivalent to	EC Res. No.
Industrial Production Engg.	Mechanical Engg.	9 dt. 4/4/2005
Automobile Engg.	Mechanical Engg.	2.9 dt. 29/5/2006
Transportation Engg.	Civil Engg.	3.2.1 dt. 15/12/2007
Construction Tech. & Mgmt.	Civil Engg.	3.2.3 dt. 6/7/2009
Environmental Engg.	Civil Engg.	3.2.2 dt. 6/7/2009
Information Sc. & Engg.	Computer Science & Engg.	2.2.2 dt. 29/7/2011

Apart from of these the University has also received requests for equivalence for,

1. Electronics & Instrumentation to Electronics & Communication Engg.
2. Instrumentation technology to Electronics & Communication Engg.
3. Tool Engg. (Closed during 2012-13 only two batches) to Mechanical Engg.
4. Information Sc. & Engg. to Information Technology

**Resolution** : Resolved to consider the request including for teaching career.

**Table Agenda-4** : Proposal of inclusion of ITIL ( **Information Technology Infrastructure Library**) Processes (for IT branches)

**Resolution** : Dr. Basavaraj Anami, Chairman BoS in CSE/ISE board is requested to check the details and implementation modalities.

**Table Agenda-5** : Age limit for Ph.D./M.Sc. Engg. (By Research) Guide ship.

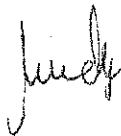
**Resolution** : Guide ship for Ph.D./M.Sc. Engg. (By Research) shall be allowed up to 65 (70-5) years for the faculty in service.

The Meeting concluded with thanks by the Registrar, Dr. H.N. Jagannatha Reddy, with a request to all board chairmen to finalize the Scheme for UG programs by 13<sup>th</sup> March 2017.

**Dean:**



**Registrar:**



**Vice-Chancellor:**






Item No.2.2.2	Recommendations of the Joint Board of Studies meeting held on 6-3-2017
	<p>The Chairman stated that the Joint Board of Studies Meetings was called on 6-03-2017 and following agenda items were discussed:</p> <ol style="list-style-type: none"> <li>1. Modifications in the CBCS Regulations pertaining to allotment of credits</li> <li>2. Review of CBCS 2017-17 Regulations (i) 16 OB 6.1(iii) (ii) 16 OB 9.1(3) (iii) 16 OB 11.3</li> <li>3. Applicability of Regulations governing B.E./B.Tech. under CBCS 2016-17</li> <li>4. Revision of mandatory subjects like 'Management'</li> <li>5. Admission to vacant seats of PG courses</li> <li>6. NCC as an Elective subject</li> <li>7. Mobile Development Application as inter disciplinary courses.</li> <li>8. Revision of Research Methodology for Ph.D. Program.</li> <li>9. Any other matter with the permission of the Chair</li> </ol> <p>The recommendations of the Joint Board of Studies on the above agenda points are placed before the Executive Council for consideration and approval. The subject was placed before the Academic Senate and the Academic Senate has recommended to approve the recommendations of Joint Board of Studies with certain modifications. The Executive Council approved the same.</p>
	<p><b>Resolution No.2.2.2</b> The Executive Council resolved to accept the recommendations of the Academic Senate on the proceedings of JBOS, as under:</p> <ul style="list-style-type: none"> <li>• Members suggested revision in the procedure adopted in conducting IA and award of IA marks which is affecting the career of VTU students as compared to the students of Autonomous colleges. The Chairman assured that it will be taken care at the next revision of syllabus under CBCS.</li> <li>• Academic Senate appreciated the stand taken by the University in filling the vacant seats of PG courses, after the completion of PG Admission Process by KEA</li> <li>• Agenda and resolution No.7 to be read as <i>Mobile Application Development</i> instead of Mobile Development Application.</li> <li>• The Dean has come out with the revised Research Methodology Syllabus for Ph.D. programme which will be common to all the branches of Engineering and Management Studies. The Academic Senate recommended to adopt the same.</li> </ul> <p>Further, pertaining to filling the vacant seats of PG Courses after the completion of PG Admission Process by KEA, the Executive Council resolved to write a letter to the Government regarding the procedure being adopted.</p> <p>Further, the Executive Council resolved to add to the CBCS 2016-17 Regulations 16 OB 11.3, that 'the candidate shall pass the required Bridge Courses of the UG Programme before the commencement of 7<sup>th</sup> semester.'</p> <p>Further, The Executive Council resolved to constitute an Expert Committee to finalise the Regulations governing CBCS, pertaining to Vertical Progression of the student during the course.</p>

**Members Present:**

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi.
2. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
3. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
4. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
5. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi.
6. Dr. C. M. Kalleshappa (officiated for Chairman), BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi.
10. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
11. Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
12. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
13. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
14. Mr. Dinesh Y N(officiated for Chairman),Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
15. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
16. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
17. Prof.Keshava Murthy, Special Invitee.
18. Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi and Chief Librarian, BMS College of Engineering, Bengaluru
19. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi

**Agenda:**

1. Finalization of Scheme and Syllabus for 5<sup>th</sup> to 8<sup>th</sup> semesters.
2. Finalization of Open Electives.
3. Proposal from CL InfoTech for Industry Aligned Program for VTU Students.
4. Eligibility criteria for admission to M.Tech in Master of Engineering Management Program
5. Proposal from GoK for start of Online Courses under SWAYAM MOOCs.
6. Proposal from PG Students for uploading Thesis prior to exams.
7. Preparation of Model Question Papers.
8. Equivalent subjects for students entering into CBCS from Non-CBCS scheme.
9. Review of PG Theory and Internal Assessment marks.
10. Nomenclature of Instrumentation Technology to Electronics & Instrumentation as per AICTE's nomenclature.
11. Any other matter with the permission of the chair.

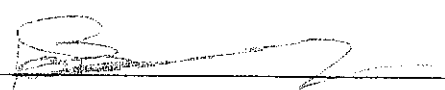
  
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**Minutes of the Meeting:**


Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairmen of Board of Studies and also Special invitee Prof. Keshava Murthy, He requested Hon'ble Vice- Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and requested members for discussions and deliberations. After detailed deliberations the following resolutions were made.

<b>Agenda -1</b>	<b>:</b>	<b>Finalization of Scheme and Syllabus for 5<sup>th</sup> to 8<sup>th</sup> Semesters.</b>
<b>Resolution</b>	<b>:</b>	The Scheme of 5 <sup>th</sup> to 8 <sup>th</sup> Semesters were approved with the following changes a) The consolidated list of open elective shall prepared such that student of any branch can opt it. b) The syllabus and title of course for Management and Entrepreneurship at 5 <sup>th</sup> and 6 <sup>th</sup> semester with code 15XX51/15XX61 i.e., shall be changed in line with the respective branches. c) At the 7 <sup>th</sup> Semester level the course code 15XXP78 shall be read as Project Phase-1 + Project Seminar instead of Project Phase-1+ Seminar with duration of 3 hours/ week. d) At the 8 <sup>th</sup> Semester level the seminar under the course code 15XXS86 shall be on topics of current trends in Engineering and Technology.
<b>Agenda -2</b>	<b>:</b>	<b>Finalization of Open Elective</b>
<b>Resolution</b>	<b>:</b>	It was resolved that the open elective shall be offered at the 5 <sup>th</sup> and 6 <sup>th</sup> semester level, and can be offered to all B.E Programmes (Except B.Arch). All the boards of studies have to submit the list open electives to be offered in respect their programme. The consolidated list will be made available to students to opt the open elective. The student is allowed to opt an open elective if and the he/she have not studied or will be studying in the higher semesters courses having similar syllabus up to 80% extent. The students may be advised to select an open elective of their interest if they have pre-requisites knowledge. The colleges shall have a Programme Coordinator and Advisors to help the students in opting the open elective and also the colleges conduct a orientation programme to students on Regulations of the University. It also resolved to submit the 5 <sup>th</sup> & 6 <sup>th</sup> Semester Scheme & Syllabus with open elective on or

  
24.7.17

		before 20 <sup>th</sup> July 2017 for feedback and final scheme and syllabus shall be submitted on or before 28 <sup>th</sup> July 2017.
		The 7 <sup>th</sup> and 8 <sup>th</sup> Scheme & Syllabus should be submitted on or before 5 <sup>th</sup> August 2017. It is also resolved to conduct course registration at each semester level.
<b>Agenda -3</b>	:	<b>Proposal from CL InfoTech for Industry Aligned Program for VTU Students</b>
<b>Resolution</b>	:	It is resolved that, the colleges can opt for such Add-on courses at their individual college level.
<b>Agenda -4</b>	:	<b>Eligibility criteria for admission to M.Tech in Master of Engineering Management Program</b>
<b>Resolution</b>	:	It is resolved to consider all the branches B.E/ B.Tech. are eligible for the admission to M.Tech., in Master of Engineering Management Program.
<b>Agenda -5</b>	:	<b>Proposal from GoK for start of Online Courses under SWAYAM MOOCs.</b>
<b>Resolution</b>	:	It is resolved that, the colleges shall encourage students to make use of MOOCs and University will issue the circular w.r.t. to SWAYAM (MOOCs) to the colleges to create awareness of the programme and also they may be advised create facility for the implementation. Pertaining to the credits allocation for these courses will be taken up in the next revision of scheme & syllabus.
<b>Agenda -6</b>	:	<b>Proposal from PG Students for uploading Thesis prior to exams.</b>
<b>Resolution</b>	:	It is resolved that, there shall be uniformity in uploading the thesis of all PG Courses. Hence, it resolved to upload the thesis and to get it valued but the announcement of results will fall in line with the regulation.
<b>Agenda -7</b>	:	<b>Preparation of Model Question Papers.</b>
<b>Resolution</b>	:	It is resolved that, the Boards of various programmes have to submit the three sets of model question papers before 16 <sup>th</sup> August 2017.
<b>Agenda -8</b>	:	<b>Equivalent Subjects for students entering into CBCS from Non-CBCS Scheme</b>
<b>Resolution</b>	:	It is resolved that, the colleges have to conduct parallel classes for the Non-CBCS students who become eligible for admission to 5 <sup>th</sup> Semester. It also resolved that the members to provide equivalent subjects of their respective boards for the 3 <sup>rd</sup> and 4 <sup>th</sup> semester students, who entre from Non-CBCS Scheme to CBCS Scheme.
<b>Agenda-9</b>	:	<b>Review of PG Theory and Internal Assessment Marks</b>
<b>Resolution</b>	:	Since 'E' is awarded as pass grade with marks ranging from $\geq 40$ to $\leq 45$ , it is resolved that, the student shall secure minimum 50% of the maximum marks in Internal Assessment Marks and minimum 40% of the maximum marks in Theory with an aggregate of in 42% of CIE and SEE. It is also resolved to redefine the marks range for 'E' grade as $\geq 42$ to $\leq 45$ for PG programmes only.

  
24.7.17

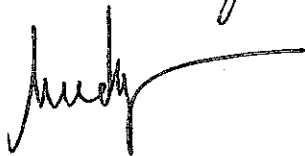
<b>Agenda-10</b>	:	<b>Nomenclature of Instrumentation Technology to Electronics &amp; Instrumentation as per AICTE's nomenclature.</b>
<b>Resolution</b>	:	It is resolved to write a letter to AICTE with respect to the nomenclature of the courses.
<b>Table Agenda</b>		
<b>With the permission of the chair, the following issues taken up for discussion</b>		
<b>Table Agenda-1</b>	:	<b>Regarding institution of B-Plan course</b>
<b>Resolution</b>	:	It is resolved to retain the syllabus and course code for similar subjects in B.Architecture and B.Plan and also to write a letter to Council of Architecture regarding the institute of B.Plan course in the university and to invite a Industry person as Special Invitee to the Board of Studies.
<b>Table Agenda-2</b>	:	<b>Regarding institution of Aerospace Engineering</b>
<b>Resolution</b>	:	It is resolved to retain the syllabus and course code for similar subjects in Aerospace Engineering, Aeronautical Engineering and Mechanical Engineering.
<b>Table Agenda-3</b>	:	<b>VTU Aerospace Center of Excellence with Dassault Systems</b>
<b>Resolution</b>	:	It is resolved to consider the training program conducted by Dassault Systems under VTU Aerospace Center of Excellence as Internship Program.

The Meeting concluded with vote of thanks by the Chair.

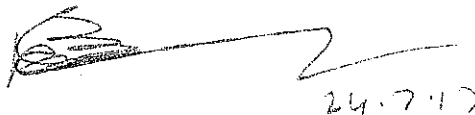
Dean:



Registrar:



Vice-Chancellor:



24.7.17



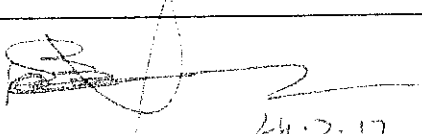
**Proceedings of the Joint BoS meeting held on 13<sup>th</sup> March 2017 at VTU, Regional Office, Bengaluru**

**Members Present:**

1. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi.
2. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
3. Dr. K. Ramachndra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
4. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
5. Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi.
6. Dr. C. M. Kalleshappa (officiated for Chairman), BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
8. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9. Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi.
10. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
11. Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
12. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
13. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
14. Mr. Dinesh Y N(officiated for Chairman),Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
15. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
16. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
17. Prof.Keshava Murthy, Special Invitee.
18. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi

**Agenda:**

1. Finalization of Scheme and Syllabus for 5<sup>th</sup> to 8<sup>th</sup> semesters.
2. Finalization of Open Electives.
3. Proposal from CL InfoTech for Industry Aligned Program for VTU Students.
4. Eligibility criteria for admission to M.Tech in Master of Engineering Management Program
5. Proposal from GoK for start of Online Courses under SWAYAM MOOCs.
6. Proposal from PG Students for uploading Thesis prior to exams.
7. Preparation of Model Question Papers.
8. Equivalent subjects for students entering into CBCS from Non-CBCS scheme.
9. Review of PG Theory and Internal Assessment marks.
10. Nomenclature of Instrumentation Technology to Electronics & Instrumentation as per AICTE's nomenclature.
11. Any other matter with the permission of the chair.

  
24.3.17

## Proceedings of the Joint BoS meeting held on 8<sup>th</sup> September 2017 at VTU, Belagavi

### Members Present:

- 1 Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi & Principal, Nitte Meenakshi Inst. of Technology, Bengaluru.
- 2 Prof. Keshava Murthy, Dept. of E & E, Dr. Ambedkar Institute of Technology, Bengaluru.- Special Invitee
- 3 Dr. D.S.Suresh, Prinicpal, Channabasaveshwara Institute of Technology, Gubbi - Special Invitee
- 4 Dr. K.Ramachandra, Chairman, BOS in Aeronautical Engg. of VTU, Belagavi, Retd. Director, GTRE, 600/1, 10th Cross, 7th Block, West Jayanagara, Bengaluru-560082
- 5 Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi & Professor, RV School of Architecture, Bengaluru.
- 6 Dr. Nandkishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi & Professor, Dept. of Automobile, Guru Nanak Dev Engineering College, Bidar.
- 7 Dr. Basavarajappa, (Officiating On behalf of Dr. A.T. Eswar) BOS in Basic Sciences of VTU, Belagavi
- 8 Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi & Professor, Acharya Institute of Technology, Bengaluru.
- 9 Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi & Professor, Dept. of Chemical Engg, Bapuji Institute of Engineering & Technology, Davangere.
- 10 Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi & Professor & Head, Dept. of Civil Engg., Bangalore Institute of Technology, Bengaluru.
- 11 Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi & Principal, KLE Institute of Technology, Hubballi.
- 12 Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi & Principal, JNN College of Engineering, Shivamogga.
- 13 Dr. Shoba R Savanur, Chairman, BOS in E & E of VTU, Belagavi & Professor, Dept. of EEE, BLDEA's VP Dr. PG Halkatti College of Engineering, Vijayapur
- 14 Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi & Professor, Dept. of E & IE, University B.D.T. College of Engineering, DAVANGERE.
- 15 Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi & Professor, Dept. of Computer Applications, Maharaja Institute of Technology, Mysuru.
- 16 Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi and Chief Librarian, BMS College of Engineering, Bengaluru
- 17 Dr. Anandakumar C. S , (Officiating On behalf of Dr. Dinesh Rangappa)Chairman, BOS in Nano Technology of VTU, Belagavi & Professor, Dept. of Nano Technology, VTU, PG Centre, Muddenahalli.

### Agenda:

1. Review of Non-CBCS and CBCS students' grievances
2. Review of B.E./B.Tech. Regulations of 2017-18 pertaining to SEE and CIE Marks
3. Change in course code in the Scheme and Syllabus of 2017-18 admitted batches and onwards
4. Submission of 6<sup>th</sup> to 8<sup>th</sup> semester Scheme and Syllabus
5. Constitution of Board under Humanities
6. Any other matter with the permission of the chair

### Minutes of the Meeting:

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairmen of Board of Studies and also Special invitees. He requested Hon'ble Vice- Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and briefed about the agenda of the meeting and requested for deliberations. After detailed deliberations the following resolutions are made:

<b>Agenda -1</b>	:	<b>Review of Non-CBCS and CBCS student's grievance</b>
<b>Preamble</b>	:	CBCS Scheme is implemented from year 2015-16. The scheme of teaching and Examination is different from Non-CBCS Scheme. As per the data available from the examination section, they are around 5,326 & 19,800 students who are not eligible take admission to 5th & 7th semester respectively. The committee constituted to discuss about continuation of 2010 scheme for 5th semester onwards has proposed to conduct parallel classes.
<b>Resolution</b>	:	In view of the above it is resolved to permit the Non-CBCS scheme students to attend classes to complete the course work and to satisfy the attendance and Internal Assessment criteria as per regulations applicable to them. However, they are not permitted to appear for the university examinations till they become eligible as per the regulations. Also they have to complete the programme as per the OB6.2.  The students of Non-CBCS scheme who are to attend exit scheme classes have to execute an affidavit to the effect that they adhere to the decisions of the university.
<b>Agenda -2</b>	:	<b>Review of B.E./B.Tech. Regulations of 2017-18 pertaining to SEE and CIE Marks</b>
<b>Resolution</b>	:	It is resolved to modify the SEE and CIE marks from 80:20 ratio to 60:40 and to incorporate the change into regulations and scheme.
<b>Agenda -3</b>	:	<b>Change in course code in the Scheme and Syllabus of 2017-18 admitted batches and onwards</b>
<b>Resolution</b>	:	It is resolved to change course code from 15XXXXXX to 17XXXXXX retaining the content of each course syllabus of 2015-16 scheme.
<b>Agenda -4</b>	:	<b>Submission of 6<sup>th</sup> to 8<sup>th</sup> semester Scheme and Syllabus</b>
<b>Resolution</b>	:	It is resolved to submit the scheme & syllabus of 6 <sup>th</sup> to 8 <sup>th</sup> Semester on or before 16 <sup>th</sup> September 2017 and the university to receive the feedback before 22 <sup>nd</sup> September 2017. The Final Submission of Scheme & Syllabus to be sent to the university on or before 28 <sup>th</sup> September 2017.  The last date for submission of Scheme & Syllabus 2017-18 admitted batch is 30 <sup>th</sup> October 2017.
<b>Agenda -5</b>	:	<b>Constitution of Board under Humanities</b>
<b>Resolution</b>	:	It is resolved to constitute the Board in Humanities.

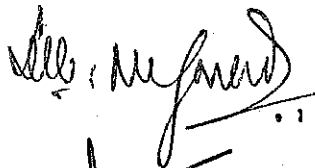
### Table Agenda

With the permission of the chair, the following issues taken up for discussion

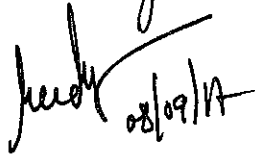
Table Agenda-1	:	Proceedings of the committee to discuss continuation of 2010 scheme from 5 <sup>th</sup> Semester onwards.
Resolution	:	It is resolved to accept the recommendations of the committee.
Table Agenda-2	:	Requisition to Schedule project phases in 6 <sup>th</sup> & 7 <sup>th</sup> Semester of B.E. programme for 2015-16 scheme.
Resolution	:	The proposal is not accepted.
Table Agenda-3	:	PG Regulations
Resolution	:	It is resolved to accept the regulations.
Table Agenda-4	:	Question paper printing for 2015-16 and 2017-18 schemes
Resolution	:	It is resolved to print separate Question papers for 2015-16 and 2017-18 schemes
Table Agenda-5	:	Ambiguity in the B.E./B.Tech. Regulations of 2017-18 with respect to consideration of mandatory non-credit courses for promotion and eligibility
Resolution	:	It is resolved that students shall pass in of mandatory non-credit courses for award of degree.

The Meeting concluded with vote of thanks by the Chair.


Dean:

  
08/09/17

Registrar:

  
08/09/17

Vice-Chancellor:

  
08/09/17



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

Dr. H. N. Jagannatha Reddy, BE, ME, Ph.d.  
REGISTRAR

Phone: (0831) 2405468  
Fax : (0831) 2405467

Ref No. VTU/Aca/A12/2017-18/ 11721

Date: 17 MAR 2018

## MEETING NOTICE

Sub: Meeting of Joint Board of Studies.

Ref: Hon'ble Vice Chancellor's Approval dtd: 17.03.2018

With reference to the above subject, the Joint Board of Studies Meeting is convened on 27<sup>th</sup> March 2018 at 11.00 a.m. at Executive Council Meeting Hall 'Jnana Sangama', VTU, Belagavi to discuss on the following Agenda:

### AGENDA:

1. Finalisation of 1<sup>st</sup> year scheme for 2018-19 UG and PG curriculum.
2. Guidelines for framing the regulations for 2018-19 scheme.
3. Introduction of Bachelor of Vocation as per AICTE syllabus and guidelines.
4. Any other matter with permission of the chair.

The Dean, Faculty of Engineering, VTU & Chairmen of all BoS are requested to make it convenient to attend the meeting. TA and Sitting Fee will be borne by the University to the members attending the meeting as per the VTU norms.

Sd/-  
REGISTRAR

To,

- 1 Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU, Belagavi & Principal, Nitte Meenakshi Inst. of Technology, Bengaluru.
- 2 Prof. V.Keshava Murthy, Special Invitee, Dept. of E & E, Dr. Ambedkar Institute of Technology, Bengaluru.
- 3 Dr.D.S.Suresh, Special Invitee, Prinicpal, Channabasaveshwara Institute of Technology, Gubbi
- 4 Dr. K Ramachandra BOS in Aeronautical Engg. of VTU, Belagavi, Retd Director, GTRE 600/1, 10th Cross, 7th Block, West Jayanagara, Bengaluru-560082
- 5 Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi & Professor, RV School of Architecture, Bengaluru.
- 6 Dr. Nandkishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi & Professor, Dept. of Automobile, Guru Nanak Dev Engineering College, Bidar.
- 7 Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi & Professor, Dept. of Mathematics, GSSS Institute of Engineering & Technology, Mysuru.
- 8 Dr. S. M. Gopinath, Chairman, BOS in Bio-Technology of VTU, Belagavi & Professor, Acharya Institute of Technology, Bengaluru.
- 9 Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi & Professor, Dept. of Chemical Engg, Bapuji Institute of Engineering & Technology, Davangere.
- 10 Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi & Professor & Head, Dept. of Civil Engg., Bangalore Institute of Technology, Bengaluru.
- 11 Dr. Basavaraj S. Anami, Chairman BoS in CSE/ISE of VTU Belagavi & Principal, KLE Institute of Technology, Hubballi.
- 12 Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi & Principal, JNN College of Engineering, Shivamogga.
- 13 Dr. Shoba R Savanur, Chairman, BOS in E & E of VTU, Belagavi & Professor, BLDEA'S VP Dr.P G Halkatti College of Engineering, Vijayapur
- 14 Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi & Dept. of Industrial Engineering & Management, Bangalore Institute of Technology, K.R. Road, V.V. Puram, Bengaluru.
- 15 Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi & Professor, Dept. of E & IE, University B.D.T. College of Engineering, DAVANGERE.
- 16 Dr. U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi & Professor, RNS Institute of Technology, Bengaluru.
- 17 Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi & Principal, Global Institute of Technology, Bengaluru.
- 18 Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belgaum & Department of Textile Engineering, Bapuji Institute of Engineering & Technology, Shamnoor Road, Davangere.
- 19 Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi & Professor, Dept. of Computer Applications, Maharaja Institute of Technology, Mysuru.
- 20 Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi & Professor, Dept. of Nano Technology, VTU, PG Centre, Muddenahalli.
- 21 Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi & Chief Librarian, BMS College of Engineering, Bengaluru.

REGISTRAR

Copy to:

- 1) The Vice-Chancellor, through the secretary to V.C., VTU, Belagavi for information.
  - 2) The Finance Officer, VTU, Belagavi, for information.
  - 3) The Registrar's Office, VTU, Belagavi, for information.
  - 4) The Registrar (Evaluation), VTU, Belagavi, with request to attend the meeting.
  - 5) The Special Officer, Academic Section, VTU, Belagavi for information.
  - 6) The Resident Engineer, VTU, Belagavi to make necessary arrangements for the meeting including hospitality.
- Note: 1. All the Members and Special Invitees are requested to make their own arrangements towards transportation to attend the meeting.  
2. All the Members and Special Invitees are requested to produce Onward and Return Journey Tickets/Vouchers for the disbursement of travelling allowances.  
3. The TA will be disbursed as per KCSR/Government Circulars and orders only.



## ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

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ಪುಟ ಸಂಖ್ಯೆ : .....1.....

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ದಿನಾಂಕ : 17/03/2018

ವಿಭಾಗ

ವಿಷಯ : JBOS Meeting Items Approval - reg

Academic

### Submitted:

It is proposed to conduct the **Joint Board of Studies Meeting** with the following agenda:

- Finalization of 1<sup>st</sup> year Scheme for 2018-19 curriculum
- Guidelines for framing the Regulations for 2018-19 scheme.
- Introduction of Bachelor of Vocation as per AICTE Syllabus and guidelines

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

Office Suptd:

for directions 17/3/18

Special officer: For kind directions 17/3/18

Registrar: For kind approval 17/03/18

9 MAR 2018  
9563

(C) : 65/2018/18. Date 27.3.18 at Belagavi

**Joint Board of Studies Meeting held on 27<sup>th</sup> March 2018 at  
Executive Council Meeting Hall, Belagavi at 11.00am**

**Members Present:**

1	Dr. Karisiddappa, Chairman JBoS and Hon'ble Vice-Chancellor, VTU, Belagavi.
2	Dr. H. C. Nagaraj, Dean Faculty of Engineering VTU, Belagavi & Principal, Nitte Meenakshi Institute of Technology, Bengaluru.
3	Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
4	Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
5	Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engineering of VTU, Belagavi.
6	Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
7	Dr. Aswath M. U., Chairman, BOS in Civil Engineering of VTU, Belagavi.
8	Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
9	Dr. Shobha Savanur, Chairman, BOS in E & E of VTU, Belagavi.
10	Dr. Mallikarjun S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
11	Dr.U. Bhojanna, Chairman, BOS in MBA of VTU, Belagavi.
12	Dr. R. P. Reddy, Chairman, BOS in Mechanical Engineering of VTU, Belagavi.
13	Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi.
14	Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
15	Dr. Nandakishore, Chairman, BOS in Automobile Engineering of VTU, Belagavi.
16	Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi.
17	Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi.
18	Dr. H.S. Dayananda, Chairman, BOS Humanities of VTU, Belagavi.
19	Dr. Satish Annigeri, Registrar (Evaluation), VTU, Belagavi.
20	Dr. H.N. Jagannatha Reddy, Member Secretary JBoS and Registrar, VTU, Belagavi.
21	Prof.V.Keshava Murthy, Special Invitee, Department of E&E, Dr.Ambedkar Institute of Technology, Bengaluru.
22	Dr. R Prabhakara, Former Prof and Head MSRIT, Bengaluru.
23	Dr. C N Chandrappa , Special Invitee, Acharya Institute of Technology, Bengaluru
24	Dr Vaman Gudi , Special Invitee, Dept of E&C, Cambridge Institute of Technology, Bengaluru

**Members on Leave:**

1	Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi.
2	Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.

## **Agenda**

1. Finalization of 1<sup>st</sup> year Scheme for 2018-19 UG and PG Curriculum and Timeline for submission of Syllabus is enclosed.
2. Guidelines for Framing the regulations for 2018-19 Scheme (The 2017-18 Scheme Regulation is placed on file for reference)
3. Introduction of Bachelor's of Vocation as per AICTE Syllabus and Guidelines
4. Any other matter with the permission of the chair.

## **Table Agenda:**

1. Implementation of Scientific Perspective and History on Modern Science Course in UG Level (as per the Government order ED 113 UNI 2017, dtd: 05.03.2018).
2. Consideration of M.Sc and B.Sc graduates for the admission of Post Graduate D in Industrial Management-PGDISM for IISM College (University has a MoU with this college for the award of degree).
3. The Eligibility Criteria for the admissions of MBA, MCA, ME and M.Tech and also the Criteria for the candidates passed through Open University/ Correspondence Course.

## **Minutes of the Meeting:**

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Honorable Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, Chairpersons of BOS and also Special invitees and presented the salient features of the model AICTE curriculum along with

- Proceedings of the Joint BoS meeting held on 14<sup>th</sup> February 2018 at VTU, Regional Office, Bengaluru.
- Proceedings of the One Day Workshop on "AICTE Model Curriculum" for UG and PG Programs held on 12<sup>th</sup> March 2018 at BMSCE, Bengaluru.

He requested the Honorable Vice-Chancellor for the further proceedings. Honorable Vice-Chancellor, Dr. Karisiddappa welcomed and requested all the chairpersons of BoS and Special Invitees for their active participation, discussions and fruitful conclusions. The outcomes of the deliberations in the form of resolutions are listed against each agenda.



<b>Agenda -1</b>	:	<b>Finalization of 1<sup>st</sup> Year scheme for 2018-19 UG and PG curriculum</b>
<b>Resolution</b>		Revise the scheme of Teaching and Examination, and syllabus for UG programs from the academic year 2018-19 in line with AICTE model curriculum and implement the scheme in compliance with the following.

<b>Agenda -1</b>	:	<b>A. UG Programs</b>										
<b>Resolution</b>		(UG.a) : UG Programs Credits										
<b>(continued)</b>		<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <th colspan="2" style="text-align: center;"><b>Table.1</b></th> </tr> <tr> <th colspan="2" style="text-align: center;"><b>Credits for the UG Programs starting from the academic year 2018 - 19</b></th> </tr> <tr> <th style="text-align: center;"><b>Programs</b></th> <th style="text-align: center;"><b>Credits</b></th> </tr> <tr> <td style="text-align: center;">B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years )</td> <td style="text-align: center;">175</td> </tr> <tr> <td style="text-align: center;">B. Arch (5 years)</td> <td style="text-align: center;">260</td> </tr> </table>	<b>Table.1</b>		<b>Credits for the UG Programs starting from the academic year 2018 - 19</b>		<b>Programs</b>	<b>Credits</b>	B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years )	175	B. Arch (5 years)	260
<b>Table.1</b>												
<b>Credits for the UG Programs starting from the academic year 2018 - 19</b>												
<b>Programs</b>	<b>Credits</b>											
B.E/ B.Tech/ Textiles/ Bio Tech/ B. Plan (All 4 years )	175											
B. Arch (5 years)	260											
		(UG.b): Three weeks mandatory Induction Programme										
		(UG.c): Duration of I semester to be 18 weeks. The exact duration shall be intimated by Registrar (Evaluation) with reference to the period required for conducting of University examinations.										
		(UG.d): Period of vacation after I semester University examination to be decided with reference (c). Preferable to reduce the present vacation period by 2 weeks.										
		(UG.e): The credits for I and II semesters to be around 19 and 21 respectively.										
		(UG.f):										
		<ol style="list-style-type: none"> <li>i. Formulate the syllabus of Physics, Chemistry and Mathematics that are appropriate for all the programs with due consideration to the PUC and XII Standard syllabi.</li> <li>ii. Dr.A. T. Eswara, Chairman of Basic Science Board of Studies to convene a meeting of Chairpersons of BOS in EEE, ECE, Mechanical Engineering, Civil Engineering and Humanities on or before 10th April 2018 to finalize the syllabus of Physics, Chemistry and Mathematics.</li> </ol>										
		(UG.g) : The course, Engineering Graphics be shifted to 1 <sup>st</sup> year with sketching compulsory.										
		(UG.h) : The mandatory courses Constitution of India and Professional Ethics, Environmental Studies, and Kannada shall be offered in III & IV semesters.										
		(UG.i) : Number of courses from III to VI semesters to be										
		<ul style="list-style-type: none"> <li>• 06 theory and 02 laboratories for Engineering programs and</li> <li>• 05 theory and 03 laboratories for Textile programme.</li> </ul>										

**Agenda -1  
Resolution  
(continued)**

(UG.j) : The UG, BE/B.Tech. to have

- one mandatory internship and
- Internship or mini – project during VI semester.

(UG.k) :

(a) The mandatory non – credit courses Diploma Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of BE/B.Tech programs shall compulsorily be registered during respective semesters to complete all the formalities of the course and appear for University examination.

(b) The mandatory non-credit courses Diploma Mathematics I and II, prescribed to lateral entrant Diploma holders admitted to III semester of BE/B.Tech programs, are to be completed to secure eligibility to VII semester. However, they are not considered for vertical progression from II year to III year of the programme but considered as head of passing along with credit courses of the programme to eligibility to VII semester.

(UG.l) : Chairpersons of BOS to organize workshops in their respective field of specialization to debate and evolve, based on the outcome, the scheme of Teaching and Examination for all the semesters.

(UG.m): The academic section to issue templates for tentative UG scheme of teaching and examination.

**B. PG Programs**

Revise the scheme of Teaching and Examination, and syllabus for PG programs from the academic year 2018-19 in line with AICTE model curriculum and implement the scheme in compliance with the following.

(PG.a) : PG Programs Credits

<b>Credits for the PG Programs starting from the academic year 2018 - 19</b>	
<b>Programs</b>	<b>Credits</b>
M.Tech.	72
MBA	102
MCA	125
M.Arch.	100

(PG.b) : The ratio of evaluation of SEE and CIE be 60:40.

(PG.c) : Courses for M.Tech programs shall be

- 05theory, 01 laboratory and Technical seminar for I semester.
- 05theory, 01 laboratory and mini- project/internship for II semester.
- 02theory and mini- project/internship for III semester.
- Dissertation and Technical seminar for IV semester.

<b>Agenda -1 Resolution (continued)</b>		(PG.d) : The academic section to issue templates for tentative PG scheme of teaching and examination. <b>C. Calendar of events for different activities of UG and PG Programs.</b>																
		<table border="1"> <thead> <tr> <th colspan="2"><b>Calendar of events</b></th> </tr> <tr> <th><b>Particulars</b></th> <th><b>Last Date/Duration</b></th> </tr> </thead> <tbody> <tr> <td>Submission of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs.</td> <td>19<sup>th</sup> April 2018</td> </tr> <tr> <td>Publication of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website for Feedback</td> <td>21<sup>th</sup> April 2018 to 30<sup>th</sup> April 2018 for Feedback</td> </tr> <tr> <td>Mandatory workshop to be conduct on Scheme(2018-19) by each BOS</td> <td>Between 1<sup>st</sup> May 2018 and 20<sup>th</sup> May 2018</td> </tr> <tr> <td>Submission of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs University( by E-Mail)</td> <td>23<sup>rd</sup> May 2018</td> </tr> <tr> <td>Publication of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website.</td> <td>25<sup>th</sup> May 2018</td> </tr> <tr> <td>Presentation of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs before AS and EC for approval.</td> <td>Last week of May 2018 or First week of June 2018</td> </tr> </tbody> </table>	<b>Calendar of events</b>		<b>Particulars</b>	<b>Last Date/Duration</b>	Submission of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs.	19 <sup>th</sup> April 2018	Publication of tentative Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website for Feedback	21 <sup>th</sup> April 2018 to 30 <sup>th</sup> April 2018 for Feedback	Mandatory workshop to be conduct on Scheme(2018-19) by each BOS	Between 1 <sup>st</sup> May 2018 and 20 <sup>th</sup> May 2018	Submission of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs University( by E-Mail)	23 <sup>rd</sup> May 2018	Publication of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs on University website.	25 <sup>th</sup> May 2018	Presentation of final Scheme of Teaching and Examination, and Syllabus of I and II semesters of UG and PG Programs before AS and EC for approval.	Last week of May 2018 or First week of June 2018
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<b>Agenda -2</b>	:	<b>Guidelines for framing the regulations for 2018-19 schemes.</b>																
<b>Resolution</b>		<ul style="list-style-type: none"> <li>• Frame the VTU Regulations 2018-19 of different programs by incorporating appropriate changes in the existing Regulations 2017-18.</li> <li>• The framing of VTU Regulations 2018-19 to be completed by Prof.V.Keshava Murthy, Dr. R. Parahakara and Sri. Vaman Gudi, all Special Invitees to JBOS.</li> </ul>																
<b>Agenda -3</b>	:	<b>Introduction of Bachelor's of Vocation as per AICTE Syllabus and Guidelines.</b>																
<b>Resolution</b>	:	a. A committee under the chairmanship of Dean, Faculty of Engineering to submit a report detailing the procedure for the institution of Bachelors of Vocation at VTU and other affiliated institutions.																

<b>Agenda -3 Resolution (continued)</b>	<p>b. Amend a clause to VTU statutes in respect of institution of Bachelors of Vocation programme.</p> <p>c. Seek concurrence from Government of Karnataka with respect to institution of Bachelors of Vocation programme, fees structure etc.</p>
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### Table Agenda

With the permission of the chair, the following issues were taken up for discussion

<b>Table Agenda-1</b>	<b>: Implementation of Scientific Perspective and History on Modern Science Course in UG Level (as per the Government order ED 113 UNI 2017, dated 05.03.2018).</b>
<b>Resolution</b>	<b>: Dr. H.S. Dayananda , Chairman , BOS Humanities of VTU, Belagavi to submit a report about the feasibility of introducing the above said course at the earliest.</b>
<b>Table Agenda-2</b>	<b>: Consideration of M.Sc and B.Sc graduates for the admission of Post Graduate Diploma in Industrial Management-PGDISM offered at IISM College (University has a MoU with this college for the award of degree).</b>
<b>Resolution</b>	<b>: Recommended to permit the M.Sc and B.Sc Graduates for the admission to Post Graduate Diploma in Industrial safety Management-PGDISM offered at IISM College (University has a MoU as an extension center with this college for the award of Postgraduate Diploma).</b>
<b>Table Agenda-3</b>	<b>: The Eligibility Criteria for the admissions to MBA, MCA, and M.Tech and also the Criteria for the candidates who have passed through Open University/ Correspondence Course.</b>
<b>Resolution</b>	<b>: Respective BOS chairpersons to submit the eligibility criteria for admission to the concerned Programme as per UGC/AICTE norms by 05<sup>th</sup> April to Registrar, VTU for on word submission to Karnataka Examination Authority, Bengaluru.</b>

The Meeting concluded with thanks by the chair.

  
Registrar

  
Vice-Chancellor



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಟಿಪ್ಪಣಿ ಪುಟ : .....

ಪುಟ ಸಂಖ್ಯೆ : .....1.....

ಕಡತದ ಸಂ. : .....

ದಿನಾಂಕ : 01/02/2018

ವಿಭಾಗ

ವಿಷಯ : JBOS Meeting Items Approval - reg

Academic

**Submitted:**

It is proposed to conduct the **Joint Board of Studies**

**Meeting** with the following agenda:

- The CBCS scheme for PG programmes was introduced during 2016-17 by revising the curriculum accordingly. Due to reconsideration in the SGPA and CGPA calculations two Regulations are in place for PG programmes that is the students admitted to PG programmes during 2016-17 and 2017 - 18 are governed by the different regulations. However there is no change in the content of syllabus except the course codes. In regular practice the course content will be revised once in two years for PG and once in 4 years for UG programmes. So as the revision in course content is due for PG programmes for 2018-19 and also whether to revise SEE and CIE in the ratio of 60:40 for PG Programmes.
- Review of Model Curriculum for UG Programme Designed by AICTE.
- Review & Implementation of Model Curriculum for PG Programme Designed by AICTE from 2018-19.
- Finalization of 3<sup>rd</sup> to 8<sup>th</sup> Semester Syllabus for 2017-18 Scheme
- Regulations and Scheme to be followed for 2016-17 batch students in case of re-admission/Eligibility to first year or higher semester at later stage.
  - a) These Students are governed by 2015-16 regulation and scheme, but currently 2017-18 scheme is in place or first year.

Hence, it is requested to suggest the date and venue of the meeting of Joint BoS.

For kind orders & directions,

Office Suptd:

*1/2/18*

SO: Submitted for kind directions & orders - *1/2/18*

Registers: For kind approval *1/2/18*  
(dt 14/02/18 @ 11 AM at Blue Ro)

VE):

Approved to conduct on 14.2.18 at Blue Ro.  
*1.2.18*



# ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

ಟಿಪ್ಪಣಿ ಪುಟ : .....

ಪುಟ ಸಂಖ್ಯೆ : .....1.....

ಕಡತದ ಸಂ. : .....

ದಿನಾಂಕ : 01/02/2018

ವಿಭಾಗ

ವಿಷಯ : ~~Approval for inclusion of some additional names in the organizing committee for JAGRUTI- A Techno-Educative-Mela by VTU at Bengaluru & Hubballi - reg~~

Academic

~~Permissioin to conduct JBOS. ... reg~~

**Submitted:**

It is proposed to conduct the **Joint Board of Studies**

**Meeting** with the following agenda:

- The CBCS scheme for PG programmes was introduced during 2016-17 by revising the curriculum accordingly. Due to reconsideration in the SGPA and CGPA calculations two Regulations are in place for PG programmes that is the students admitted to PG programmes during 2016-17 and 2017 - 18 are governed by the different regulations. However there is no change in the content of syllabus except the course codes. In regular practice the course content will be revised once in two years for PG and once in 4 years for UG programmes. So as the revision in course content is due for PG programmes for 2018-19 and also whether to revise SEE and CIE in the ratio of 60:40 for PG Programmes.
- Review of Model Curriculum for UG Programme Designed by AICTE.
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For kind orders & directions,

**Office Suptd:**

1/2/18

Special officer : submitted for kind orders of 7/2/18

leg: for kind approval of 01/02/18  
[dtd 14/02/18 @ 11 AM, Blore Ro]

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**Proceedings of the Joint BoS meeting held on 14<sup>th</sup> February 2018 at VTU, Regional Office,  
Bengaluru**

**Members Present:**

1. Prof.V.Keshava Murthy, Special Invitee, Dept., of E&E, Dr.Ambedkar Institute of Technology, Bengaluru.
2. Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi
3. Prof.Vaman B Gudi, Special Invitee, Professor, Dept., of E&C , Cambridge Institute of Technology, Bengaluru
4. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
5. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
6. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
7. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
8. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
9. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
10. Dr. Shobha Savanur, Chairman, BOS in E & E of VTU, Belagavi.
11. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
12. Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
13. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
14. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
16. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
17. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
18. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi
19. Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi
20. Dr. Sateesh Annigeri, Registrar (Evaluation), VTU, Belagavi

**Agenda:**

1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19.
2. Review & Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19.
3. Review of Model Curriculum for UG Programme designed by AICTE.
4. Finalization of 3<sup>rd</sup> to 8<sup>th</sup> Semester Syllabus for 2017-18 Scheme.
5. Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester.
6. Any other matter with the permission of the chair.

**Table Agenda:**

1. An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch.
2. Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended-2014.
3. To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19
4. Number of ranks to be limited to 50% or less for programmes offered in only one Institution.
5. Providing Subject wise University Aggregate Results.
6. Clarification regarding Internship.
7. Formulation of Modalities/Guidelines for UG Internship (2015-16 Scheme).

**Minutes of the Meeting:**

Dr. H.N. Jagannatha Reddy, Registrar welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, all the Chairmen of Board of Studies and also Special invitees Prof. V. Keshava Murthy and Dr. D.S. Suresh. He requested the Hon'ble Vice-Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and requested members for active discussions as the agenda items. After detailed deliberations, the following resolutions were made.

<b>Agenda -1 &amp; 2</b>	:	<b>1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19.</b> <b>2. Review &amp; Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19</b>																											
<b>Resolution</b>	:	(a) Recommended to revise the scheme and syllabus of PG programs for the academic year 2018-19 in line with AICTE model curriculum with following recommendations: 1. Marks division for CIE and SEE to be in the ratio 40:60. 2. Programme credits for the award of degree: ➤ M.Tech. - 72 ➤ MBA - 102 ➤ MCA - 125 ➤ M. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA.																											
<b>Agenda -3</b>	:	<b>3. Review of Model Curriculum for UG Programme designed by AICTE.</b>																											
<b>Resolution</b>	:	(a) Recommended to revise the UG BE/B.Tech programme scheme of Teaching and Examination, and Syllabus in line with AICTE model curriculum and proposed to implement the same from the academic year 2018-19 with the following recommendations: 1. Conduct Three weeks mandatory Induction Programme. 2. Prepare the UG BE/B.Tech programme scheme of Teaching and Examination with the following structure: <table border="1"><thead><tr><th>SI No</th><th>Category</th><th>Prescribed credits</th></tr></thead><tbody><tr><td>1</td><td>Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.]</td><td>07</td></tr><tr><td>2</td><td>Basic Science courses</td><td>25</td></tr><tr><td>3</td><td>Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,</td><td>24</td></tr><tr><td>4</td><td>Professional core courses</td><td>80</td></tr><tr><td>5</td><td>Professional Elective courses relevant to chosen specialization/branch</td><td>15</td></tr><tr><td>6</td><td>Open subjects – Electives from other technical and /or emerging subjects</td><td>09</td></tr><tr><td>7</td><td>Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]</td><td>15</td></tr><tr><td colspan="2" style="text-align: right;"><b>Total credits</b></td><td><b>175</b></td></tr></tbody></table> 3. Academic Section to provide Templates for tentative scheme of teaching and evaluation as decided in the JBOS. 4. The respective Board of Studies to organize workshop/s regarding proposed AICTE model curriculum and to prepare the model	SI No	Category	Prescribed credits	1	Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.]	07	2	Basic Science courses	25	3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,	24	4	Professional core courses	80	5	Professional Elective courses relevant to chosen specialization/branch	15	6	Open subjects – Electives from other technical and /or emerging subjects	09	7	Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]	15	<b>Total credits</b>		<b>175</b>
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		<p>scheme of teaching and examination based on the outcome of the workshop/s.</p> <p>5. It was proposed to conduct one day workshop to all the Chairmen &amp; Members, Board of Studies on AICTE Model Curriculum.</p> <p>6. Call for a meeting of chair persons of Basic Sciences, Humanities, board including the Chairmen of EEE, ECE, Mech and Civil boards for deliberation on the preparation of scheme of Teaching and Examination, and syllabus for 1<sup>st</sup> year B.E and B.Arch Programmes.</p> <p>7. B. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA. Chairman of B. Arch to propose scheme of Teaching and Examination, and syllabus of both UG and PG consultation with COA.</p>
<b>Agenda -4</b>	:	<b>Finalization of III to VIII Semester Syllabus for 2017-18 Scheme.</b>
<b>Resolution</b>	:	All Chairmen are to submit the final consolidated copy of syllabus only with minor changes in the contents in line with 2015-16 higher semester syllabus on or before 30-03-2018 without fail
<b>Agenda -5</b>	:	<b>Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester.</b>
<b>Resolution</b>	:	<p>(a) Recommended to follow the prevailing scheme for UG Programme. However an equivalence regarding scheme of study to be obtained from Chairman of concerned board.</p> <p>(b) Also recommended for PG Programme students who were admitted in 2016-17 and could not attend the higher semester classes during the academic year 2017 -18 and eligible now should attend the classes with 2017-18 scheme batch students. However, these students have to follow 2016-17 scheme of teaching and Examination and not the prevailing scheme of teaching and Examination.</p>
<b>Table Agenda</b>		
<b>Table Agenda-1</b>	:	<b>An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch.</b>
<b>Resolution</b>	:	Resolved to follow the present pattern that is in place.
<b>Table Agenda-2</b>	:	<b>Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended- 2014.</b>
<b>Resolution</b>	:	<p>(a) Issue about the qualifications for Research Supervisor for Ph.D (Architecture) to be referred to Research committee for consideration.</p> <p>(b) Issue about the Ph.D comprehensive viva – voce to be referred to Research committee for consideration.</p>
<b>Table Agenda-3</b>	:	<b>Inclusion of Kannada as one credit course for III semester B. Arch Programme from academic year 2018-19.</b>
<b>Resolution</b>	:	To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19.
<b>Table Agenda-4</b>	:	<b>Number of ranks to be limited to 50% or less for programme offered in only one Institution.</b>
<b>Resolution</b>	:	To abide by the existing regulations.
<b>Table Agenda-5</b>	:	<b>Providing Subject wise University Aggregate Results</b>

<b>Resolution</b>	:	University to publish Subject wise Aggregate Results so that the institutions can access the same through Principal's login.																										
<b>Table Agenda-6 &amp; 7</b>	:	<b>Clarification regarding Internship. Formulation of Modalities/Guidelines for UG Internship (2015-16 Scheme).</b>																										
<b>Resolution</b>	:	(a) Four week Internship during 6 <sup>th</sup> and 7 <sup>th</sup> and/or 7 <sup>th</sup> and 8 <sup>th</sup> Semester vacation period. (b) The examination on Internship to be conducted in line with University project viva -voce examinations. (c) Amend (modify) the existing 2015 -16 regulations governing the internship i.e., 15OB.9																										
<b>Table Agenda-7</b>	:	<b>Book Exhibition and Inclusion of one Librarian to BoS Meetings.</b>																										
<b>Resolution</b>	:	(a) To organize Book Exhibition at VTU Regional office, Bengaluru and VTU Campus, Belagavi. (b) To Invite one librarian to BoS Meetings to assist the Board of Studies to assist to select/propose Reference books and Text Books.																										
<b>Table Agenda- 8</b>	:	<b>Action Plan for Implementation of quality initiatives of AICTE including revised curriculum</b>																										
<b>Resolution</b>	:	It is resolved to write a letter to Ministry of Human Resource Development, Department of Higher Education, Government of India regarding the Action Plan Timeline of Implementation of AICTE Model Curriculum the timeline as follows:																										
		<table border="1"> <thead> <tr> <th>Sr.No</th> <th>Activity</th> <th>Time Line</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1.</td> <td rowspan="4">Inviting Board of Studies Meeting <ul style="list-style-type: none"> <li>Examining existing curriculum</li> <li>Examining AICTE Model curriculum for its suitability</li> <li>Revision of curriculum incorporating model curriculum suggested by AICTE</li> <li>Identifying PEO, PO, CO</li> </ul> </td> <td>02/02/2018</td> </tr> <tr> <td>14/02/2018</td> </tr> <tr> <td>16/04/2018</td> </tr> <tr> <td>16/04/2018</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> <li>Examining curriculum for its suitability of Industry demand.</li> <li>Vetting of PEO, PO, CO</li> </ul> </td> <td>15/03/2018</td> </tr> <tr> <td>02/05/2018</td> </tr> <tr> <td>3</td> <td>Preparation of Training Plans for Teachers</td> <td>05/05/2018</td> </tr> <tr> <td rowspan="2">4</td> <td rowspan="2">Inviting Academic Council Meeting <ul style="list-style-type: none"> <li>Approval of revised (model) curriculum</li> <li>Approval to teachers training plans</li> </ul> </td> <td>10/05/2018</td> </tr> <tr> <td>10/05/2018</td> </tr> <tr> <td>5</td> <td>Orientation workshop for faculty for implementation of revised curriculum</td> <td>15/05/2018 – 20/06/2018</td> </tr> <tr> <td>6</td> <td>Implementation of curricular retrospectively w.e.f Academic Session 2018-2019</td> <td>01/08/2018</td> </tr> </tbody> </table>	Sr.No	Activity	Time Line	1.	Inviting Board of Studies Meeting <ul style="list-style-type: none"> <li>Examining existing curriculum</li> <li>Examining AICTE Model curriculum for its suitability</li> <li>Revision of curriculum incorporating model curriculum suggested by AICTE</li> <li>Identifying PEO, PO, CO</li> </ul>	02/02/2018	14/02/2018	16/04/2018	16/04/2018	2	Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> <li>Examining curriculum for its suitability of Industry demand.</li> <li>Vetting of PEO, PO, CO</li> </ul>	15/03/2018	02/05/2018	3	Preparation of Training Plans for Teachers	05/05/2018	4	Inviting Academic Council Meeting <ul style="list-style-type: none"> <li>Approval of revised (model) curriculum</li> <li>Approval to teachers training plans</li> </ul>	10/05/2018	10/05/2018	5	Orientation workshop for faculty for implementation of revised curriculum	15/05/2018 – 20/06/2018	6	Implementation of curricular retrospectively w.e.f Academic Session 2018-2019	01/08/2018
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The Meeting concluded with thanks by the chair.

  
Registrar

  
Vice-Chancellor:

## 2.2 Matters Concerning Board of Studies

Item No. 2.2.5 of the Agenda of the  
140<sup>th</sup> meeting of the Executive Council  
to be held on 13<sup>th</sup> July 2018

### Consideration of the Proceedings of the Joint Board of Studies Meeting held on 11-6-2018 at VTU's Regional Office, Bengaluru

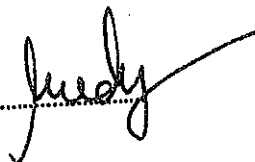
The Joint Board of Studies Meeting was held on 11-6-2018 at VTU's Regional Office, Bengaluru. The Proceedings of the Joint Board of Studies Meeting are placed before the Executive Council for consideration and approval.

The subject is being placed before the Academic Senate and the recommendations of the Academic Senate will be placed on the table.

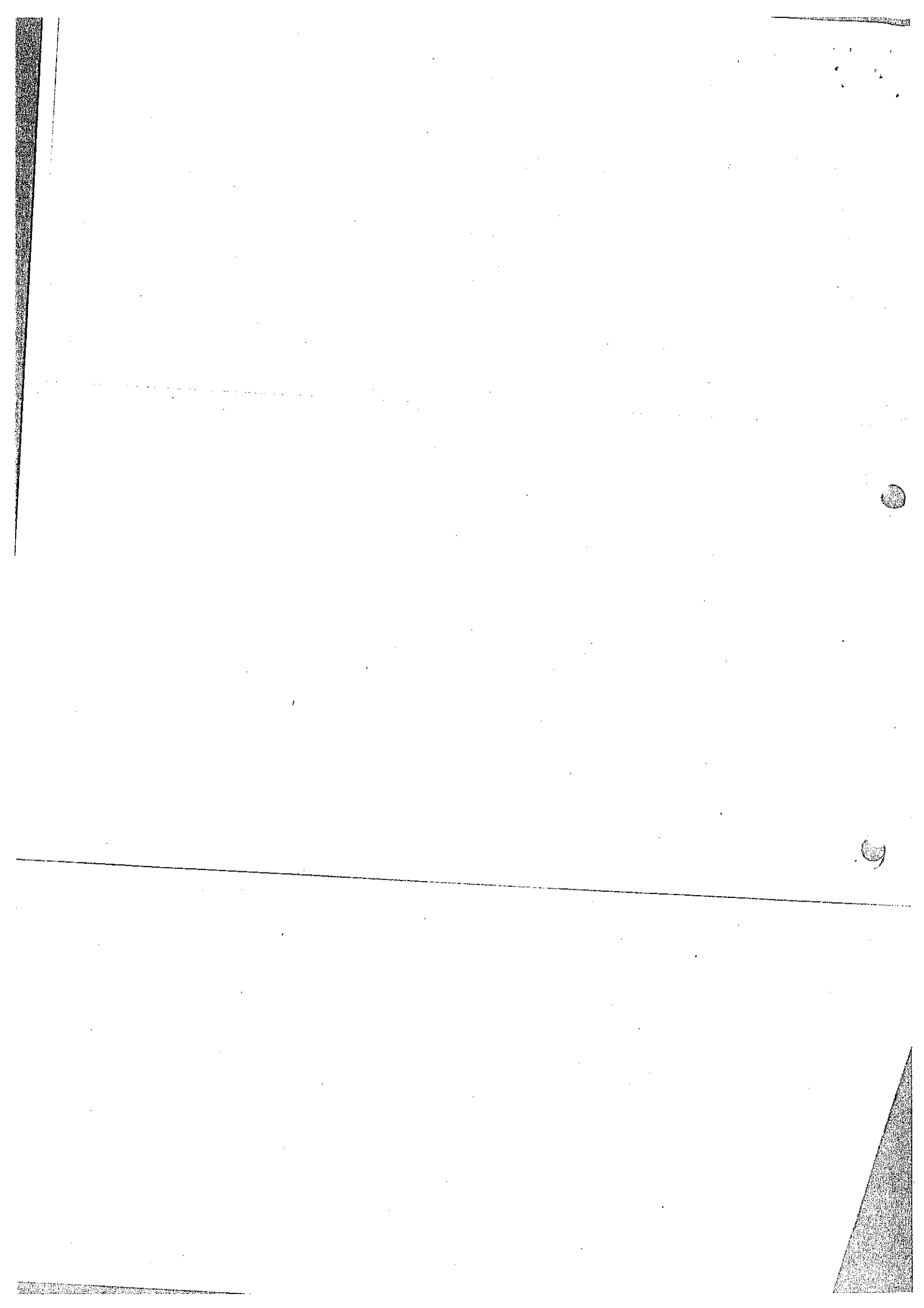
### **Resolution No. 2.2.5**

**The Executive Council resolved to accept the recommendations of the Academic Senate which recommended to approve the Proceedings of the Joint Board of Studies Meeting held on 11-6-2018 at VTU's Regional Office, Bengaluru, as placed in the meeting.**

Minutes of the 140<sup>th</sup> Executive Council Meeting held on 30-6-2018 and adjourned meeting held on 13-7-2018.....



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**Members Present:**

1. Dr. Karisidappa, Chairman JBOS and Vice chancellor, VTU, Belagavi.
2. Dr. H. N. Jagannatha Reddy, Registrar, VTU, Belagavi.
3. Dr. Satish Annigeri, Registrar (Evaluation), VTU, Belagavi
4. Dr. H. C. Nagaraj, Dean Faculty of Engineering, VTU Belagavi, and Principal, Nitte Meenakshi Institute of Technology, Bengaluru.
5. Prof.V.Keshava Murthy, Academic Advisor, VTU Regional office, Bengaluru.
6. Dr R. Prabhakara, Professor, Emeritus Structural Engineering Division, and Advisor Academic and Admin section, VTU, Belagavi.
7. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences, VTU, Belagavi.
8. Dr. Omprakash S Bawane, Chairman, BOS in Architecture, VTU, Belagavi.
9. Dr. K. Ramachndra, Chairman, BOS in Aeronautical Engineering, VTU, Belagavi.
10. Dr. S. M Gopinath, Chairman BOS In Biotechnology, VTU, Belagavi.
11. Dr. Aswath M. U., Chairman, BOS in Civil Engineering, VTU, Belagavi.
12. Dr. Srinivas Rao Kunte, Chairman, BOS in E and C, VTU, Belagavi.
13. Dr. Shobha Savanur, Chairperson, BOS in E and E, VTU, Belagavi.
14. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics and Instrumentation Engineering of VTU, Belagavi.
15. Dr.U. Bhojanna, Chairman, BOS in Business Administration, VTU, Belagavi.
16. Dr. R. P. Reddy, Chairman, BOS in Mech. Engineering, VTU, Belagavi.
17. Dr. M. C. Jagath, Chairman, BOS in IPE, VTU, Belagavi.
18. Dr. Murugesh Babu, Chairman, BOS in Silk and Textile Technology, VTU, Belagavi.
19. Dr. Nandakishore, Chairman, BOS in Automobile Engineering, VTU, Belagavi.
20. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology, VTU, Belagavi.
21. Dr. N.Chowdappa, Chairman, BOS in Library and Information Science, VTU, Belagavi.
22. Dr. H.S Dayananda, Chairman, BOS Humanities, VTU, Belagavi.

**Members Absent**

1. Dr. D.S.Suresh, Academic Senate and Executive Committee member, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi.
2. Dr. C N Chandrappa, Executive Council Member and Special Invitee, VTU, Belagavi.
3. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering and Polymer Science, VTU, Belagavi.

**Agenda:**

1. Finalization of the Scheme for B.E/B.Tech Programme for 2018-19 scheme (as per AICTE Model Curriculum).
2. Finalization of the Scheme for M.Tech/MCA and MBA Programme for 2018-19 scheme (as per AICTE Model Curriculum).
3. To adopt teaching days as 180 in a Year as per UGC.

**Table Agenda:**

1. Equivalence Courses for Change of Scheme Students.
2. Mention of paper setting Board.
3. M.Sc Physics consideration for Eligibility in M.Tech (Renewable Energy).
4. Any other matter with the permission of the chair

**Minutes of the Meeting:**

Registrar, Dr. H.N. Jagannatha Reddy, welcomed the Honorable Vice-Chancellor Dr. Karisiddappa, Chairmen of Joint Board of Studies and all the members present. He requested Honorable Vice-Chancellor for further proceedings.

Honorable Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and briefed on the agenda. Honorable Vice-Chancellor requested members for discussions. After detailed deliberations the following resolutions were made.

<b>Agenda -1</b>	<b>Finalization of the Scheme for B.E/B.Tech Programme for 2018-19 scheme (as per AICTE Model Curriculum).</b>
<b>Resolution</b>	<p>1. Resolved to incorporate the following to the Scheme of Teaching and Examination of UG programme 2018-19.</p> <p>(a) In order to provide sufficient time for the learners in tutorial classes, it is decided to assign one credit to 2 hour tutorial/week/semester in lieu of earlier decision that one credit to 1 hour tutorial/week/semester.</p> <p>(b) To provide ample opportunity for teaching - learning exercise of two credit English course, the consensus of the Board was to have the course both in I and II semesters instead of limiting it only to II semester.</p> <p>(i) Further, designate the course as Language Laboratory I (English) for I semester and Language Laboratory II (English) for II semester. Each course to carry a credit of one.</p> <p>(ii) Consider the course under practical heading.</p> <p>(iii) Assessment of students in the course to be through CIE only.</p> <p>(c) (i) The III semester course Kannada to be taught as vyavaharika kannada (Communication Kannada) to non-kannada speaking students/ to students who have not studied kannada during schooling and Aadalithathmaka Kannada (Administrative Kannada) to students who can read and write kannada and have studied kannada during schooling.</p> <p>(ii) Consider the course under practical heading.</p> <p>(iii) Assessment of students to be through CIE only.</p> <p>(d) Title of the course Civil Engineering and Mechanics of I / II semester to be modified as Elements of Civil Engineering and Mechanics.</p> <p>(e) Title of the course Computer Programming Laboratory of I / II semester to be modified as C Programming Laboratory.</p> <p>(f) Assessment of students in the VII semester BE/B.Tech course project work Phase -1 to be through CIE only.</p> <p>(2) Four Professional Elective Courses to be assigned to BE/B.Tech programmes; One for VI semester, two for VII semester and one for VIII semester.</p> <p>3.(i) Two Open Elective Courses to be assigned to BE/B.Tech programmes;</p>

One each during VI and VII semesters.  
 (ii) Constitute a Committee with Dean, Engineering as Chairman, Chairpersons of Board of Studies and Advisors of VTU as members for finalization of BE/B.Tech Open Electives.  
 4. Board authorized the Vice-Chancellor to finalize the BE/B.Tech Regulations 2018 – 19 and Scheme of Teaching and Examination.  
 5. Board of Studies to submit the Scheme of Teaching and Examination and syllabus pertaining to III to VIII semesters of BE/B.Tech/ B.Arch programmes on or before 30<sup>th</sup> June 2018.

**Agenda -2**

**Finalization of the Scheme for M.Tech, MCA, MBA and M.Arch Programme for 2018-19 scheme (as per AICTE Model Curriculum).**

**Resolution**

(1) Revise the credits of postgraduate programmes to be on par with the credits prescribed for autonomous colleges under VTU from the academic year 2018 -19. The table 1 shows the previous and the revised credits prescribed for the postgraduate programmes.

Postgraduate programmes	Credits as per the decision of	
	JBOS held on 27 - 03 - 2018	JBOS held on 11 - 06 - 2018
M. Tech.	72	88
M. Arch.	100	100
M.B.A.	102	100
M.C.A.	125	132
MCA (Lateral Entry)	--	88

(2) Marks for evaluation of each course to be 100; SEE and CIE to be in the ratio 60:40.

(3) Evaluation of Technical seminar and Project work phase 1 to be through CIE only.

(i) The CIE marks awarded for Technical Seminar, shall be based on the evaluation of Seminar Report, Presentation skill and Question and Answer session in the ratio 50:25:25.

(ii) The CIE marks awarded for project work phase -1, shall be based on the evaluation of Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25.

(4) Recent two year MCA Programme sanctioned by AICTE, is to be reckoned as II and III years of the three year MCA programme for which BCA/B S.c Graduates are only eligible under lateral entry scheme.

**Agenda -3**

**To adopt teaching days as 180 in a Year as per UGC.**

**Resolution**

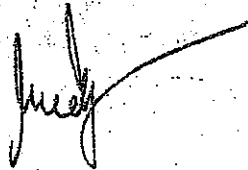
**Resolved to adopt 180 or more teaching days in an academic Calendar as per UGC norms and to have at least 90 teaching days per semester.**

**Table Agenda**

<b>Table Agenda-1</b>	<b>:</b>	<b>Equivalence courses for students who change the Scheme.</b>
<b>Resolution</b>	<b>:</b>	Students who change the scheme of study because of various reasons have to get admitted to the prevailing scheme and follow the norms pertaining to it. Such students may have to complete additional subjects, if any, when the equivalence between the two schemes is decided by the concerned Board of Studies along with the number of credits to be earned after completing all the remaining semesters as a regular student in the prevailing scheme.
<b>Table Agenda-2</b>	<b>:</b>	<b>Mention of paper setting Board.</b>
<b>Resolution</b>	<b>:</b>	Specific paper setting Board of examiners (BOE) be mentioned against each science Course instead of the generic term Basic Sciences in the BE/B.Tech scheme of Teaching and Examination. Illustration: (i) Engineering Physics: Paper setting Board - BOE in Physics. (ii) Engineering Chemistry: Paper setting Board - BOE in Chemistry. (iii) Mathematics papers: Paper setting Board - BOE in Mathematics.
<b>Table Agenda-3</b>	<b>:</b>	<b>Approval of M.Sc Physics degree for Eligibility to M.Tech (Renewable Energy).</b>
<b>Resolution</b>	<b>:</b>	After the deliberations, M.Sc Physics degree, as per MNRE, Government of India, is approved to be eligible to M.Tech (Renewable Energy) programme.
<b>Issues with the permission of the chair</b>		
<b>Issue-I</b>	<b>:</b>	Change of nomenclature of programme (course, according to AICTE Approval Process Handbook 2018 -19) Instrumentation Technology (IT) to Electronics and Instrumentation Engineering (EI)
<b>Resolution</b>	<b>:</b>	Address a letter to KEA - CET cell to change the branch name of Instrumentation Technology (page 14)/ Instrumentation Technology (IT) (page 21) to Electronics and Instrumentation Engineering (EI) in the PGCET - 2018 - Information Bulletin.

The Meeting concluded with thanks by the chair.

Registrar



Vice-Chancellor:





# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka State.

Prof. Satish Annigeri Ph.D.  
I/c. Registrar

Phone : (0831) 2405468  
Fax : (0831) 2405467

No.: VTU/BGM/DPAR/CR(2)/03/2017-18/1134

Date: 23 JUL 2019

## : Official Memorandum:



**Sub:** Proceedings of the meeting to discuss about the academic matters and office procedures – Reg...

Ref:1. Meeting Notice No. VTU/PS/2019-20/2178 dated:02-07-2019

2. Proceedings of the meeting dated:04-07-2019

With reference to the above subject and under reference (1) and (2), please find herewith the copy of the proceedings of the meeting held on 04-07-2019 to discuss about the academic matters and office procedures for further needful process.

**Encl: Copy of the Proceedings**

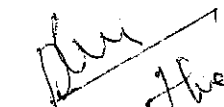
  
I/c. REGISTRAR  


Copy for information to:

1. The Secretary to The Hon'ble Vice Chancellor, VTU, Belagavi.
2. The P. S. to The Registrar, VTU, Belagavi
3. The Registrar (Evaluation), VTU, Belagavi
4. The Finance Officer, VTU, Belagavi
5. The Resident Engineer, Engineering Section, VTU, Belagavi for information and necessary action.
6. The I/c. Regional Director, VTU's Regional Office, Belagavi, Bengaluru, Mysuru and Kalaburagi.
7. The Director, IQAC Cell, VTU, Belagavi for information and necessary action.
8. The Coordinator, National Assessment and Accreditation Council (NAAC) Cell, VTU, Belagavi.
9. The Concerned Chairperson/s and the Program Coordinator/s of the Department for information and necessary action.
10. The Coordinator, VTU's PG Centre, Belagavi, Kalaburagi, Muddenahalli and Mysuru.
11. The Special Officer Academic Section, VTU, Belagavi
12. The Special Officer, Ph.D. Section, VTU, Belagavi
13. The Special Officer, VTU-RRC, Belagavi
14. The Librarian, VTU, Belagavi
15. The Stores and Purchase Officer, SAP, VTU, Belagavi
16. The Director (I/c), Information Technology Infrastructure and Services Management Unit (ITISMU), VTU, Belagavi
17. Office Copy.

O/N 24 July 2019

I. N. D. 21. dt: 24/7/2019

  
File the document  
24/07/19.



**PROCEEDINGS OF THE MEETING TO DISCUSS ABOUT THE ACADEMIC MATTERS AND OFFICE PROCEDURE FOR PG DEPARTMENTS HELD ON 04<sup>th</sup> JULY, 2019 AT 11.00 A.M. @ VC'S CONFERENCE HALL, VTU, BELAGAVI WITH THE FOLLOWING ATTENDANCE .**

Ref: Meeting Notice No. VTU/PS/2019-20/2178 dated:02-07-2019

**Members Present**

Sl.	Name and Designation	
1	<b>Dr. Karisiddappa</b> Hon'ble Vice Chancellor, VTU, Belagavi	Chairman
2	<b>Prof. Satish Annigeri</b> Registrar (Eval) & Registrar (I/c.), VTU, Belagavi	Member
3	<b>Smt. M. A. Sapna</b> Finance Officer, VTU, Belagavi	Member
4	<b>Dr. Anand Veerappa Shivapur</b> Chairperson, Dept of Civil Engineering	Member
5	<b>Dr. Ravindra Rachappa Malagi</b> Chairperson, Dept of Mechanical Engineering	Member
6	<b>Dr. T. C. Thanuja</b> Chairperson, Dept of Electronics and Communication Engineering	Member
7	<b>Dr. Shanmukappa A. Angadi</b> Chairperson, Dept of Computer Science Engineering	Member
8	<b>Dr. S. R. Bharamanaikar</b> Chairperson, Dept of Management Studies	Member
9	<b>Dr. N. Chikkanna</b> Chairperson , Department of Aerospace Engineering	Member
10	<b>Sri. Brijbhushan S.</b> Program Coordinator, Dept of Civil Engineering	Member
11	<b>Dr. Venkatesh M. Kulkarni</b> Program Coordinator, Dept of Mechanical Engineering	Member
12	<b>Dr. R. Suresh</b> Program Coordinator, Dept of Mechanical Engineering	Member
13	<b>Dr. G. S. Venkatesh</b> Program Coordinator, Dept of Mechanical Engineering	Member
14	<b>Dr. Sarika Shankarao Tale</b> Program Coordinator, Electronics and Communication Engineering	Member
15	<b>Dr. Shubhangi Digamber Chikte</b> Program Coordinator, Dept of CSE and Dept of ECE	Member
16	<b>Dr. K. Thippeswamy</b> Program Coordinator, Dept of CSE and Dept of ECE	Member
17	<b>Dr. Shivamurthy G.</b> Program Coordinator, Dept of Computer Science Engineering	Member
18	<b>Dr. B. Shambhu Lingappa</b> Program Coordinator, Dept of Management Studies	Member
19	<b>Dr. T. P. Renukamurthy</b> Program Coordinator, Dept of Management Studies	Member
20	<b>Dr. Pankajakshi R.</b> Program Coordinator, Dept of Management Studies	Member
21	<b>Dr. Dinesh Rangappa</b> Program Coordinator , Department of Applied Sciences (Nano Tech)	Member
22	<b>Sri. Hemanthkumar</b> Resident Engineer, DPAR, VTU, Belagavi	Member
23	<b>Sri. Shravan B. K.</b> Special Officer, DPAR, VTU, Belagavi	Member

**Members Absent**

Sl.	Name and Designation	
1	<b>Dr. Keerthi Gowda B.S.</b> Program Coordinator, Dept of Civil Engineering	Member

**Preamble:**

VTU has created Program wise Departments in its PG Centres and nominated Chairpersons at VTU Headquarters and Program Coordinators at different PG Centres. In Order to discuss Academic and Administrative issues relating to PG Centres, this meeting has been convened under the Chairmanship of Hon'ble Vice-Chancellor.

**Proceedings:**

The Registrar welcomed the Chairman and members and briefed about the agenda of the meeting and requested the Hon'ble Vice-Chancellor to carry out the proceedings. Hon'ble Vice-Chancellor addressed the Chairpersons and Program Coordinators with the following directions:

**a) Academic & Administrative related matters.**

1. The earlier PG Centres are decentralized and PG Departments are created.
2. The Departments are given autonomy in Administration and Academic matters.
3. The Chairpersons of the Departments will act as Heads of respective departments and will directly report to the Registrar
4. All Departments are established in Headquarters except Department of Aerospace Propulsion Technology (which is established in VTU's PG Centre, Muddenahalli) and Chairpersons will head the departments
5. Program Coordinators will act as heads of respective departments at respective PG Centres and will report to the respective Chairpersons in all matters.
6. The Chairpersons and Program Coordinators posts will be treated as Non-Vacation posts and relevant leave benefits as per rules are applicable to them.
7. Chairpersons and Program Coordinators are responsible for :
  - a. Maintaining disciplined administration in the department
  - b. Maintaining Academics of the department like Regular class monitoring, IA tests, Seminars, attendance of staff and students etc.
  - c. Maintaining all the administrative and Academic records.
  - d. admissions to their departments
8. Tenure of Chairpersons and Program Coordinator will be for two years on rotation basis.
9. Chairpersons are authorized to grant Casual leave up to 5 days. If it is more than 5 days the application must be approved by the Registrar. The staff should get prior approval for leave. In case of emergencies like accident, ill health natural calamities etc., telephonic request may be approved. The department has to maintain all attendance records properly for audit purpose.
10. The Program Coordinators are authorized to grant Casual leave up to 3 days. If it is more than 3 days and up to 5days, the application must be approved by the concerned Chairperson. If it is more than 5 days the application must be approved by the Registrar. The staff should get prior approval for leave. In case of emergencies like accident, ill health natural calamities etc., telephonic request may be approved. The department has to maintain all attendance records properly for audit purpose.

11. All SCL/OODs upto 3days can be approved by the Chairpersons and if it is more than 3 days the same shall be submitted to Registrar for approval. In any case SCL/OODs must not exceed 30 days in a year. The department has to maintain all relevant records properly for audit purpose.
12. The Chairpersons and Program Coordinators are availing leave or OOD/SCL, they shall give incharge to next senior faculty of the department.
13. The Chairpersons and Program Coordinators shall maintain two attendance registers in the department one for teaching and one for non-teaching staff members.
14. The Office timings are 9.00 a.m. to 4.30 p.m. on weekdays and on Saturday the timings are 9.00 a.m. to 1.30 p.m. and are applicable to both teaching and non teaching staff members.
15. The Office timings for Muddenahalli campus is 9.00 a.m. to 4.00 p.m. on weekdays and on Saturday the timings are 9.00 a.m. to 1.00 p.m. and is applicable to both teaching and non teaching staff members.
16. Each department should have biometric attendance. Staff should submit their biometric attendance between 9.00 a.m. to 9.15 a.m. in the morning, between 4.30 p.m. to 5.00 p.m. in the evening and afternoon between 2.00 p.m. to 2.15 p.m. (with respect to PG Centre, Muddenahalli between 9.00 a.m. to 9.15 a.m. in the morning, between 4.00 p.m. to 4.30 p.m. in the evening and afternoon between 1.00 p.m. to 1.15 p.m).
17. Responsibility of maintaining the attendance is with Chairpersons and Program Coordinator
18. The Chairpersons shall call council meetings as per statutes and as and when required. Chairpersons shall call meeting of Program Coordinators at least twice in a Academic year.
19. The Chairpersons shall issue calendar of events including vacation for their departments, based on the University calendar of events and the same should be strictly adhered to.
20. Each department will be provided with required clerical/ technical staff.
21. The Seniority list will be provided to each department.
22. The Chairperson shall make alternative arrangements when a faculty / staff is on leave, so the students should be engaged with classes.
23. Chairpersons and Program Coordinator are responsible for upliftment of teaching learning quality at their department
24. The Chairpersons and Program Coordinators shall be responsible for assisting and mentoring students and should act like a guardian to students.
25. Each department should have, Departmental Library and Research Centre.
26. All the departments must cooperate with NAAC coordinator and make all the efforts for getting NAAC approval to the University.
27. All the departments can conduct FDPs , Workshops etc.,
28. Chairpersons shall identify Professor Emeritus for their department with a prior approval of the Hon'ble Vice Chancellor.

29. Guest faculty requirement (if any) and identified faculty list is to be submitted to the Registrar.

**b) Finance related matters.**

1. Chairpersons shall submit the budget of their department to the Finance Officer through the Registrar
2. All the financial matters of the departments are to be well planned and for any lapses, the Chairpersons are held responsible.
3. The PG Coordinators account to be closed after reconciliation and each department should have separate account.
4. Ledger, Cash books, assets and Liabilities are to be maintained by the concerned Chairpersons and Program Coordinators.
5. While submitting any procurement requirement, the Chairpersons must submit the estimated cost supported with market analysis and required specifications.
6. Finance Officer is requested to issue a guidelines/circular related to financial matters.

**c) Research related matters**

1. The concept of Research Resource Centre is removed; each department is a research centre.
2. Full time Research scholars working under VTU Faculty will be given fellowship under "Jnanayana" as per the guidelines.
3. Chairpersons are the heads of research centres.
4. Research funds will be allocated to all the Departments based on their request.
5. Part time research scholars will be under the department.

**d) Examination related matters.**

1. The Responsibilities of Conducting Examinations and related activates shall be handled by one department for one academic year on rotation. The allotment will be done by the Registrar (Evaluation).

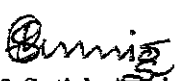
**e) Building related and Other issues**


1. The Responsibilities of the Hostel warden and Assistant warden and related activates shall be handled by one department for one academic year on rotation basis similar to the Examination. The allotment will be done by the concerned department Chairperson.
2. Consumable shall be taken from the stores and purchase department as per procedure
3. Each department should have required Office facilities and Chairpersons shall contact Resident Engineer for the same.
4. The Estate office shall be established at PG Centre Muddenhalli

The recommendations shall be implemented with immediate effect by directing concerned sections to issue related orders.

The Meeting concluded with vote of thanks.

Place : Belagavi  
Date : 04-07-2019

  
Prof. Satish Annigeri  
Registrar (I/c.), VTU and  
Member of the Committee

  
Dr. Karisiddappa  
Hon'ble Vice Chancellor, VTU and  
Chairman of the Committee

**Proceedings of the Joint BoS meeting held on 14<sup>th</sup> February 2018 at VTU, Regional Office,  
Bengaluru**

**Members Present:**

1. Prof.V.Keshava Murthy, Special Invitee, Dept., of E&E, Dr.Ambedkar Institute of Technology, Bengaluru.
2. Dr.D.S.Suresh, Special Invitee, Principal, Channabasaveshwara Institute of Technology, Gubbi
3. Prof.Vaman B Gudi, Special Invitee, Professor, Dept., of E&C , Cambridge Institute of Technology, Bengaluru
4. Dr. Omprakash S Bawane, Chairman, BOS in Architecture of VTU, Belagavi.
5. Dr. K. Ramachandra, Chairman, BOS in Aeronautical Engg., of VTU, Belagavi.
6. Dr. A. T. Eswara, Chairman, BOS in Basic Sciences of VTU, Belagavi.
7. Dr. Gururaj Rao P Desai, Chairman, BOS in Chemical Engineering / Polymer Science of VTU, Belagavi.
8. Dr. Aswath M. U., Chairman, BOS in Civil Engg. of VTU, Belagavi.
9. Dr. Srinivas Rao Kunte, Chairman, BOS in E & C of VTU, Belagavi.
10. Dr. Shobha Savanur, Chairman, BOS in E & E of VTU, Belagavi.
11. Dr. Mallikarjun. S. Holi, Chairman, BoS in Electronics & Instrumentation Engineering of VTU, Belagavi.
12. Dr.U. Bhojanna, Chairman, BOS in Business Administration of VTU, Belagavi.
13. Dr. R. P. Reddy, Chairman, BOS in Mech. Engg. of VTU, Belagavi.
14. Dr. M. C. Jagath, Chairman, BOS in IPE of VTU, Belagavi
15. Dr. Murugesh Babu, Chairman, BOS in Silk/Textile Technology of VTU, Belagavi.
16. Dr. Vasudev T, Chairman BoS in MCA of VTU, Belagavi.
17. Dr. Nandakishore, Chairman, BOS in Automobile Engg., of VTU, Belagavi.
18. Dr. Dinesh Rangappa, Chairman, BOS in Nano Technology of VTU, Belagavi
19. Dr.N.Chowdappa, Chairman, BOS in Library & Information Science of VTU, Belagavi
20. Dr. Sateesh Annigeri, Registrar (Evaluation), VTU, Belagavi

**Agenda:**

1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19.
2. Review & Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19.
3. Review of Model Curriculum for UG Programme designed by AICTE.
4. Finalization of 3<sup>rd</sup> to 8<sup>th</sup> Semester Syllabus for 2017-18 Scheme.
5. Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester.
6. Any other matter with the permission of the chair.

**Table Agenda:**

1. An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch.
2. Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended-2014.
3. To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19
4. Number of ranks to be limited to 50% or less for programmes offered in only one Institution.
5. Providing Subject wise University Aggregate Results.
6. Clarification regarding Internship.
7. Formulation of Modalities/Guidelines for UG Internship (2015-16 Scheme).

### Minutes of the Meeting:

Dr. H.N. Jagannatha Reddy, Registrar welcomed the Hon'ble Vice-Chancellor Dr. Karisiddappa, Chairman, Joint Board of Studies, all the Chairmen of Board of Studies and also Special invitees Prof. V. Keshava Murthy and Dr. D.S. Suresh. He requested the Hon'ble Vice-Chancellor for further proceedings.

Hon'ble Vice-Chancellor, Dr. Karisiddappa once again welcomed all the members and requested members for active discussions as the agenda items. After detailed deliberations, the following resolutions were made.

<b>Agenda -1 &amp; 2</b>	:	<b>1. Revision of PG Syllabus, SEE and CIE Ratio for 2018-19.</b> <b>2. Review &amp; Implementation of Model Curriculum for PG Programme designed by AICTE from 2018-19</b>																											
<b>Resolution</b>	:	(a) Recommended to revise the scheme and syllabus of PG programs for the academic year 2018-19 in line with AICTE model curriculum with following recommendations: 1. Marks division for CIE and SEE to be in the ratio 40:60. 2. Programme credits for the award of degree: ➤ M.Tech. - 72 ➤ MBA - 102 ➤ MCA - 125 ➤ M. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA.																											
<b>Agenda -3</b>	:	<b>3. Review of Model Curriculum for UG Programme designed by AICTE.</b>																											
<b>Resolution</b>	:	(a) Recommended to revise the UG BE/B.Tech programme scheme of Teaching and Examination, and Syllabus in line with AICTE model curriculum and proposed to implement the same from the academic year 2018-19 with the following recommendations: 1. Conduct Three weeks mandatory Induction Programme. 2. Prepare the UG BE/B.Tech programme scheme of Teaching and Examination with the following structure: <table border="1"><thead><tr><th>Sl No</th><th>Category</th><th>Prescribed credits</th></tr></thead><tbody><tr><td>1</td><td>Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.]</td><td>07</td></tr><tr><td>2</td><td>Basic Science courses</td><td>25</td></tr><tr><td>3</td><td>Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,</td><td>24</td></tr><tr><td>4</td><td>Professional core courses</td><td>80</td></tr><tr><td>5</td><td>Professional Elective courses relevant to chosen specialization/branch</td><td>15</td></tr><tr><td>6</td><td>Open subjects – Electives from other technical and /or emerging subjects</td><td>09</td></tr><tr><td>7</td><td>Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]</td><td>15</td></tr><tr><td colspan="2" style="text-align: right;"><b>Total credits</b></td><td><b>175</b></td></tr></tbody></table> 3. Academic Section to provide Templates for tentative scheme of teaching and evaluation as decided in the JBOS. 4. The respective Board of Studies to organize workshop/s regarding proposed AICTE model curriculum and to prepare the model	Sl No	Category	Prescribed credits	1	Humanities and Social Sciences including Management courses. [Kannada: 01 credit, English: 02 credit, CIPH: 01 credit, Management: 03 credits.]	07	2	Basic Science courses	25	3	Engineering Science courses including workshop, drawing, basics of electrical/mechanical/computer etc.,	24	4	Professional core courses	80	5	Professional Elective courses relevant to chosen specialization/branch	15	6	Open subjects – Electives from other technical and /or emerging subjects	09	7	Project work, seminar and internship in industry or elsewhere. [Seminar: 01 credit, Project: 05 credit, Internship: 09 credits]	15	<b>Total credits</b>		<b>175</b>
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		<p>scheme of teaching and examination based on the outcome of the workshop/s.</p> <p>5. It was proposed to conduct one day workshop to all the Chairmen &amp; Members, Board of Studies on AICTE Model Curriculum.</p> <p>6. Call for a meeting of chair persons of Basic Sciences, Humanities, board including the Chairmen of EEE, ECE, Mech and Civil boards for deliberation on the preparation of scheme of Teaching and Examination, and syllabus for 1<sup>st</sup> year B.E and B.Arch Programmes.</p> <p>7. B. Arch - To be confirmed by the Chairman, BOS in Architecture in consultation with COA. Chairman of B. Arch to propose scheme of Teaching and Examination, and syllabus of both UG and PG consultation with COA.</p>
<b>Agenda -4</b>	:	<b>Finalization of III to VIII Semester Syllabus for 2017-18 Scheme.</b>
<b>Resolution</b>	:	All Chairmen are to submit the final consolidated copy of syllabus only with minor changes in the contents in line with 2015-16 higher semester syllabus on or before 30-03-2018 without fail
<b>Agenda -5</b>	:	<b>Regulations and Scheme to be followed by 2016-17 admitted batch in case of re-admission/ Eligibility to first year or higher semester.</b>
<b>Resolution</b>	:	<p>(a) Recommended to follow the prevailing scheme for UG Programme. However an equivalence regarding scheme of study to be obtained from Chairman of concerned board.</p> <p>(b) Also recommended for PG Programme students who were admitted in 2016-17 and could not attend the higher semester classes during the academic year 2017 -18 and eligible now should attend the classes with 2017-18 scheme batch students. However, these students have to follow 2016-17 scheme of teaching and Examination and not the prevailing scheme of teaching and Examination.</p>
<b>Table Agenda</b>		
<b>Table Agenda-1</b>	:	<b>An Alternate Question Paper Pattern for 2017 Scheme CBCS Batch.</b>
<b>Resolution</b>	:	Resolved to follow the present pattern that is in place.
<b>Table Agenda-2</b>	:	<b>Regulations Governing the Degree of Doctor of Philosophy (Ph.D)- Amended-2014.</b>
<b>Resolution</b>	:	<p>(a) Issue about the qualifications for Research Supervisor for Ph.D (Architecture) to be referred to Research committee for consideration.</p> <p>(b) Issue about the Ph.D comprehensive viva – voce to be referred to Research committee for consideration.</p>
<b>Table Agenda-3</b>	:	<b>Inclusion of Kannada as one credit course for III semester B. Arch Programme from academic year 2018-19.</b>
<b>Resolution</b>	:	To include Kannada as one of the credit course for B.Arch Programme from academic year 2018-19.
<b>Table Agenda-4</b>	:	<b>Number of ranks to be limited to 50% or less for programme offered in only one Institution.</b>
<b>Resolution</b>	:	To abide by the existing regulations.
<b>Table Agenda-5</b>	:	<b>Providing Subject wise University Aggregate Results</b>

<b>Resolution</b>	:	University to publish Subject wise Aggregate Results so that the institutions can access the same through Principal's login.																										
<b>Table Agenda-6 &amp; 7</b>	:	<b>Clarification regarding Internship. Formulation of Modalities/Guidelines for UG Internship (2015-16 Scheme).</b>																										
<b>Resolution</b>	:	(a) Four week Internship during 6 <sup>th</sup> and 7 <sup>th</sup> and/or 7 <sup>th</sup> and 8 <sup>th</sup> Semester vacation period. (b) The examination on Internship to be conducted in line with University project viva -voce examinations. (c) Amend (modify) the existing 2015 -16 regulations governing the internship i.e., 15OB.9																										
<b>Table Agenda-7</b>	:	<b>Book Exhibition and Inclusion of one Librarian to BoS Meetings.</b>																										
<b>Resolution</b>	:	(a) To organize Book Exhibition at VTU Regional office, Bengaluru and VTU Campus, Belagavi. (b) To Invite one librarian to BoS Meetings to assist the Board of Studies to assist to select/propose Reference books and Text Books.																										
<b>Table Agenda- 8</b>	:	<b>Action Plan for Implementation of quality initiatives of AICTE including revised curriculum</b>																										
<b>Resolution</b>	:	It is resolved to write a letter to Ministry of Human Resource Development, Department of Higher Education, Government of India regarding the Action Plan Timeline of Implementation of AICTE Model Curriculum the timeline as follows:																										
		<table border="1"> <thead> <tr> <th>Sr.No</th> <th>Activity</th> <th>Time Line</th> </tr> </thead> <tbody> <tr> <td rowspan="4">1.</td> <td rowspan="4">Inviting Board of Studies Meeting <ul style="list-style-type: none"> <li>Examining existing curriculum</li> <li>Examining AICTE Model curriculum for its suitability</li> <li>Revision of curriculum incorporating model curriculum suggested by AICTE</li> <li>Identifying PEO, PO, CO</li> </ul> </td> <td>02/02/2018</td> </tr> <tr> <td>14/02/2018</td> </tr> <tr> <td>16/04/2018</td> </tr> <tr> <td>16/04/2018</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2">Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> <li>Examining curriculum for its suitability of Industry demand.</li> <li>Vetting of PEO, PO, CO</li> </ul> </td> <td>15/03/2018</td> </tr> <tr> <td>02/05/2018</td> </tr> <tr> <td>3</td> <td>Preparation of Training Plans for Teachers</td> <td>05/05/2018</td> </tr> <tr> <td rowspan="2">4</td> <td rowspan="2">Inviting Academic Council Meeting <ul style="list-style-type: none"> <li>Approval of revised (model) curriculum</li> <li>Approval to teachers training plans</li> </ul> </td> <td>10/05/2018</td> </tr> <tr> <td>10/05/2018</td> </tr> <tr> <td>5</td> <td>Orientation workshop for faculty for implementation of revised curriculum</td> <td>15/05/2018 – 20/06/2018</td> </tr> <tr> <td>6</td> <td>Implementation of curricular retrospectively w.e.f Academic Session 2018-2019</td> <td>01/08/2018</td> </tr> </tbody> </table>	Sr.No	Activity	Time Line	1.	Inviting Board of Studies Meeting <ul style="list-style-type: none"> <li>Examining existing curriculum</li> <li>Examining AICTE Model curriculum for its suitability</li> <li>Revision of curriculum incorporating model curriculum suggested by AICTE</li> <li>Identifying PEO, PO, CO</li> </ul>	02/02/2018	14/02/2018	16/04/2018	16/04/2018	2	Formation of Industry Consultation Committee (ICC) <ul style="list-style-type: none"> <li>Examining curriculum for its suitability of Industry demand.</li> <li>Vetting of PEO, PO, CO</li> </ul>	15/03/2018	02/05/2018	3	Preparation of Training Plans for Teachers	05/05/2018	4	Inviting Academic Council Meeting <ul style="list-style-type: none"> <li>Approval of revised (model) curriculum</li> <li>Approval to teachers training plans</li> </ul>	10/05/2018	10/05/2018	5	Orientation workshop for faculty for implementation of revised curriculum	15/05/2018 – 20/06/2018	6	Implementation of curricular retrospectively w.e.f Academic Session 2018-2019	01/08/2018
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The Meeting concluded with thanks by the chair.

  
Registrar

  
Vice-Chancellor:



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

REGISTRAR

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref No. VTU/Aca/A12/ 2017-18/ 10100

U O Note

Date: 21 FEB 2018

**Sub: Discrepancy of 15MN562 & B.Plan Regulation – reg**  
**Ref: VTU/Exam/2017-2018/2549, dtd: 25<sup>th</sup> Jan 2018**

With reference to the above, herewith sending the notified copy of revised open elective list and also enclosing the Regulations governing B.Plan Programme and 2<sup>nd</sup> Semester Scheme & Syllabus. This is for your information and needful action.

REGISTRAR

To,

The Registrar (Evaluation)

VTU, Belagavi.

Received  
21/2/18

# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

Dr. H.N. Jagannatha Reddy, BE,ME,Ph.D.  
REGISTRAR

Phone: (0831) 2405468  
Fax : (0831) 2405467

Ref No. VTU/Aca/A12/ 2017-18/ 6244

U O Note

Date: OCT 2017

**Sub: B.E/B.Tech Regulation (CBCS) for 2017-18 batch onwards – reg.**

With reference to the above, this is to inform that the B.E/B.Tech Regulations and Schemes (CBCS) has been changed from the academic year 2017-18, and it's applicable for 2017-18 admitted batch onwards.

Encl: Regulation, Scheme & Syllabus.

*Judy* 11/10/17  
REGISTRAR  
KS CS 11/10

To,

The Registrar (Evaluation)

VTU, Belgaum.

*Don*  
12/10/17  
Received

60:40  
Scheme  
Mechanical Lab  
Syllabus not  
Sent



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018.

Dr. H.N. Jagannatha Reddy, BE,ME,Ph.D.  
REGISTRAR

Phone: (0831) 2405468  
Fax : (0831) 2405467

Ref No. VTU/Aca/A12/2017-18/4763

Date:

13 SEP 2017

To,  
The Chairmen  
Board of Studies,  
VTU, Belagavi.

Sir,

**Sub: Submission of the UG Course Scheme & Syllabus (CBCS) Scheme- reg.**

Adverting to the above subject, it is hereby informed that as it was discussed in JBOS meeting held on 08<sup>th</sup> September 2017 to submit the scheme & syllabus of 6<sup>th</sup> to 8<sup>th</sup> by 16<sup>th</sup> September 2017 and the for receiving the feedback before 22<sup>nd</sup> September 2017 and Final Submission of the Scheme & Syllabus is on or before 28<sup>th</sup> September 2017.

Also, it is to submit the scheme & Syllabus of 2017-18 admitted batch by 30<sup>th</sup> October 2017.

Kindly do the needful at the earliest.

Thanking you,

Yours faithfully,

  
REGISTRAR

**CHOICE BASED CREDIT SYSTEM (CBCS)**  
**REGULATIONS GOVERNING**  
**THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY**  
**(B.E./B.Tech.)**

**DEFINITIONS OF KEY WORDS:**

1. **University:** Visvesvaraya Technological University, Belagavi.
2. **Academic Year:** Two consecutive (one odd + one even) semesters constitute one academic year.
3. **Semester:** Each semester will consist of 15-18 weeks of academic work equivalent to 90 actual teaching days. The odd semester may be scheduled from August to January and even semester from February to July.
4. **Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses (*core, elective and Foundation Courses*).
5. **Credit Based Semester System (CBSS):** Under the CBSS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.
6. **Programme:** An educational programme leading to award of a Degree or certificate.
7. **Course:** Usually referred to, as 'papers' is a component of a programme. All courses need not carry the same weightage. The courses should define learning objectives and learning outcomes. A course may be designed to comprise lectures/ tutorials/laboratory work/ field work/ outreach activities/ project work/ vocational training/viva/ seminars/ term papers/assignments/ presentations/ self-study etc. or a combination of some of these.
8. **Branch:** Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Engineering, etc.
9. **Letter Grade:** It is an index of the performance of students in a said course. Grades are denoted by letters S, A, B, C, D, E and F.
10. **Grade Point:** It is a numerical weightage allotted to each letter grade on a 10-point scale.
11. **Credit:** A unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or two hours of practical work/field work per week.
12. **Credit Point:** It is the product of grade point and number of credits for a course.
13. **Semester Grade Point Average (SGPA):** It is a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits

taken during that semester. It shall be expressed up to two decimal places.

- 14. Cumulative Grade Point Average (CGPA):** It is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.
- 15. First Attempt:** If a student has completed all formalities and become eligible to attend the examinations and has attended at least one head of passing, such attempt (first sitting) shall be considered as first attempt.
- 16. Transcript or Grade Card or Certificate:** Based on the grades earned, a grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the course details (code, title, number of credits, grade secured) along with SGPA of that semester and CGPA earned till that semester.

**Choice Based Credit System (CBCS):** The CBCS provides choice for students to select from the prescribed courses.

Sequencing Plan for the B.E. / B.Tech. Degree Curriculum

<b>Semesters</b>	<b>Course Coverage</b>
I –II	HSS, BS and ES; Common for all Branches; Mandatory Courses
III-IV	BS Common for all Branches and ES; PS – Core/Elective
V-VII	PS- Core & Electives; Other Electives; Branch-wise Orientation
VIII	PS-Electives/Elective ; Other Electives, Internship, Project work

**Abbreviations:**

HSS - Humanities and Social Sciences  
 BS - Basic Sciences  
 ES - Engineering Sciences  
 PS - Professional Subjects

**Credit Structure for Course Work**

Lectures (hrs/wk /Sem)	Tutorial (hrs/wk/ Sem)	Lab. Work (hrs/wk/Sem)	Credits (Lec:instruction:Lab)	Credits (Total)
4	0	0	4:0:0	4
3	0	0	3:0:0	3
0	1	2	0:1:2	2

**CHOICE BASED CREDIT SYSTEM (CBCS)  
REGULATIONS GOVERNING  
THE DEGREE OF BACHELOR OF ENGINEERING / TECHNOLOGY  
(B.E./B.Tech.)**

15OB 1	<b>TITLE AND DURATION OF THE PROGRAMME OF STUDY</b>
15OB 1.1	The program of study shall be called the degree Program of study in Bachelor of Engineering / Technology, abbreviated as B.E. / B.Tech.
15OB 1.2	The program shall be of four academic years duration divided into eight semesters, each semester having duration of 16 weeks. For evening courses the contact hours are to be satisfied by working extra on afternoons of Saturdays and Sundays.
15OB 1.3	The calendar of events in respect of the program of study shall be fixed by the University from time to time.
15OB 1.4	The examination in all programs of study shall be conducted at the end of each semester for all eight semesters.
15OB 2	<b>ELIGIBILITY FOR ADMISSION</b> (The Government orders issued from time to time in this regard shall prevail).
15OB 2.1	Admission to I year / I semester Bachelor Degree in Engineering / Technology shall be open to the students who have passed the second year Pre-University or XII standard or equivalent examination recognized by the University. For the prerequisite qualification earned from foreign countries, Equivalence certificate from the Association of Indian Universities is Mandatory. The decision of the Equivalence committee shall be final in establishing the eligibility of student.
15OB 2.2	In addition to 15OB 2.1, the student shall have secured not less than forty five percent (45%) marks in the aggregate with Physics and Mathematics as compulsory subjects, along with any one of the following subjects, namely, Chemistry, Bio-Technology, Computer Science, Biology and Electronics or as decided by the Government of Karnataka. Provided that, the minimum marks for the purpose of eligibility shall be forty percent (40%) in optional subjects in case of students belonging to SC/ST and OBC students from Karnataka or as decided by the Government of Karnataka. Provided further that, the student shall have studied and passed English as one of the subjects.
15OB 2.3	Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the students <b>Diploma Holders</b> <ul style="list-style-type: none"> <li>• Must have passed diploma or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in the final year examination (fifth and</li> </ul>



	<p>sixth semesters) in the appropriate branch of engineering. In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%).</p> <ul style="list-style-type: none"> <li>• Who have completed their Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka.</li> <li>• Who are seeking admission under lateral entry shall also clear prescribed Bridge courses (Advanced Mathematics – III and IV) and Mandatory subjects (CPH and CIV) as specified by the University.</li> </ul> <p><b>B.Sc. Graduates</b></p> <ul style="list-style-type: none"> <li>• <b>Must have</b> passed B.Sc. degree from a recognized University as defined by the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (including all six semesters). In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%). Should have studied Mathematics as subject of study at XII Standard.</li> <li>• Further, all the B.Sc. students seeking admission to lateral entry shall also clear the following subjects before entering into V Semester <ul style="list-style-type: none"> <li>I. Computer Aided Engineering Drawing (CAED) and</li> <li>II. Programming in C and Data Structures</li> <li>III. CPH and CIV (if not studied at B.Sc. Level).</li> </ul> </li> </ul>
15OB 2.4	<p>Admission to Evening Programme of study shall be open to a student Who on the first day of the term notified by the University for the year of admission has at least one-year professional experience in the branch of engineering / technology, in which the student holds a diploma.</p> <p>Explanation: Professional experience means employment on regular basis</p> <ul style="list-style-type: none"> <li>a. in Government, Government undertaking, Public Sector undertaking, Corporations or</li> <li>b. in a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or</li> <li>c. In Government, Government recognized institutions as technical staff.</li> </ul> <p>Provided that the period of apprenticeship undergone shall also be treated as professional experience, if sponsored by the Board of Apprenticeship Training, Southern Region Chennai or by any Government, Government undertaking or Public Sector undertaking.</p> <p>Provided further that employment shall be in an establishment situated within the urban agglomeration of city in which the professional institution is situated.</p>
15OB 2.5	Those students, who have passed a qualifying examination other than

	the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya Technological University, Belagavi or from the Principal of concerned Engineering College of Karnataka State.
15OB 3	<b>ATTENDANCE REQUIREMENT</b>
15OB 3.1	Each semester is considered as a unit and the student has to put in a minimum attendance of 85% in each Course with a provision of condonation of 10% of the attendance by the Vice-Chancellor on the specific recommendation of the Principal of the college where the student is studying, showing reasonable cause such as medical grounds, participation in University level sports, cultural activities, seminars, workshops, paper presentation, etc.
15OB 3.2	The basis for the calculation of the attendance shall be the number of hours prescribed by the University by its calendar of events. For the first semester students, the same shall be reckoned from the date of admission to the course as per CET allotment.
15OB 3.3	The students shall be informed about their attendance status periodically by the colleges so that the students shall be cautioned to make up the shortage. The Principals of the affiliated Colleges shall submit the list of students who have been detained for shortage of attendance by the end of the semester to the Registrar (Evaluation) with a copy to the Registrar. Provided that mere omission by the college to inform the student about the shortage of attendance shall not entitle him to appear for examination.
15OB 3.4	A student having shortage of attendance in one or more subjects shall have to repeat the whole semester and such students shall not be permitted to take admission to next higher semester. Such students shall take readmission to the same semester in the subsequent academic year.
15OB 3.5	<b>TEMPORARY DISCONTINUATION OF THE PROGRAM:</b> A student, who wishes to temporarily discontinue the program and continue the same subsequently, has to obtain prior permission from the University by applying through the Principal. Such students have to take readmission to the same semester/year in the subsequent academic year. However, the student shall complete the course as per 15OB 6.2.
15OB 4	<b>INTERNAL ASSESSMENT MARKS</b>
15OB 4.1	There shall be a maximum of 20 Internal Assessment Marks in each theory or practical paper. For seminars, the Internal Assessment marks shall be 50.

15OB 4.2	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of 6 <sup>th</sup> and 12 <sup>th</sup> week of each semester. An additional test may be conducted for the desirous students before the end of the semester to give an opportunity to such students to improve their Internal Assessment Marks, subject to the provisions of 15OB 4.13. The test shall be answered in Blue Books with pages serially numbered. These blue books shall be kept in the custody of the Principal of the College until after one month from the date of announcement of the result by the University. These shall be made available to University authorities for verification as per the directions of the Registrar (Evaluation)/ Registrar.
15OB 4.3	Average of the better marks obtained from any two tests shall be the Internal Assessment Marks for the relevant subject.
15OB 4.4	If a student remains absent for all the Internal Assessment tests conducted, the Internal Assessment Marks shall be marked as AB for the subject against the University Seat Number (USN) of the student in the marks sheet submitted to the University by the Principal of the College.
15OB 4.5	In the case of a Practical, the IA marks shall be based on the laboratory journals/reports and one practical test.
15OB 4.6	The IA marks for I year Computer Aided Engineering / Drawing: a) 12 marks for class work (sketching and Computer Aided engineering drawing). b) 08 marks for test in the same pattern as that of the main examination (better of the two tests) ii) The IA marks for other Drawings and Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.
15OB 4.7	The IA marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of 8 <sup>th</sup> semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project / seminar guide.
15OB 4.8	The final list, incorporating corrections (if any) of IA marks awarded to the students in the Theory/Practical/Internship/Project work/Seminar, shall be displayed on the notice board of the college at least seven days before the closure of the semester and a certified copy of the same shall be sent by the Principals to the University Examination Section within the stipulated date. Every page of the IA marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.
15OB 4.9	Any corrections or over writing of IA marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall on every sheet indicate the number of corrections and attest it with his signature.

15OB 4.10 (a)	A student failing to secure a minimum of 50% of the IA marks in Practical/Internship/Project work shall not be eligible for the Practical /Internship/Project of the University examination.
15OB 4.10 (b)	For seminars, the minimum requirement of IA marks shall be 40% of the maximum.
15OB 4.11	Such students as mentioned in 15OB 4.10 shall repeat the laboratory work/Internship/project work during the subsequent semester(s) and secure at least the minimum marks prescribed.
15OB 4.12	For theory subjects, there shall not be any minimum requirements of IA marks.
15OB 4.13	Improvement of IA marks shall not be allowed a. In theory subjects and b. In Laboratory/Workshop/Seminar/ Internship / Project where the student has already secured the minimum required marks.
15OB 4.14	IA marks of those students to whom 15OB 4.11 is applicable, shall be sent separately to the Registrar (Evaluation).
15OB 4.15	IA marks shall reach the University before the commencement of examination as per the notification from the office of the Registrar (Evaluation) from time to time. After the submission of Internal Assessment marks to the University, any request for change of IA marks shall not be considered under any circumstances.
15OB 5	<b>ELIGIBILITY FOR PASSING</b> A student who obtained Grades O to E shall be considered as passed and if a student secured “F” grade in any of the head of passing he /she has to reappear for the examination.
15OB 5.1 (a)	For a pass in a theory subject/drawing, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and 40% of marks in the aggregate inclusive of the IA marks. i.e. Minimum Passing Grade is “E”.
15OB 5.1 (b)	For a pass in a Practical/Internship/Project/Viva-voce examination, a student shall secure a minimum of 40% of the maximum marks prescribed for the University Examination in the relevant Practical/Internship/Project/Viva-voce. i.e. Minimum Passing Grade in a course is “E”.
15OB 5.1 (c)	For a pass in Seminar, a student shall secure a minimum of 40% of the maximum marks prescribed. i.e. Minimum Passing Grade is “E”.
15OB 5.2	The students who do not satisfy the condition 15OB 5.1 and the student who remains absent shall be deemed to have failed in that subject and may reappear for the University examination in the subsequent examinations. However, the IA marks awarded to the student/s at first attempt in the concerned theory subject will be carried forward. In case of Practical/Internship/Projects/Seminar revised marks will be taken as per regulations 15OB 4.10 (a & b) and 15OB 4.11.
15OB 5.3	The student who passes a course of a semester as per 15OB 5.1 shall

	not be allowed to appear for the same again, unless he/she opts for rejection of results as per 15OB 5.4, 5.5, 5.6, 5.7 & 5.8.
OB 5.4	A student may, at his/her desire, reject his/her total performance of a semester (including IA marks) or he/she may reject the result of his/her performance in University examination of a semester only. The rejection is permitted only once during the entire course of study.
15OB 5.5	The student who desires to reject the performance as per 15OB 5.4 shall reject performance in all the courses of the semester, irrespective of whether the student has passed or failed in any subject. However, the rejection of performance of 8 <sup>th</sup> semester project result shall not be permitted.
15OB 5.6	A student, who desires to reject the total performance of the semester including Internal Assessment, has to take readmission for the relevant semester. Application for such readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons. Readmission to First semester in such cases shall not be considered as fresh admission i.e., the student will continue to have the same University Seat Number, which was allotted earlier. The course duration permitted (as per 15OB 6) will be counted as per old USN.
OB 5.7	The student, who desires to reject only the results of University examination of a semester and does not desire readmission, shall be permitted to re-appear for examinations of all the subjects of the semester in the subsequent examinations. However, the IA marks obtained by the student in the rejected semester shall be retained. Applications for such rejection shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons. If the rejection of the University examination results of the semester happens to be of the odd semester, the student shall be allowed to take admission to the immediate next even semester. However, if the rejection of the University result is of the even semester, the student shall not be allowed to take admission to the next odd semester (as per 15OB 7.2).
15OB 5.8	Such students who opt for rejection at final year are eligible for the award of class and distinction at the B.E./ B.Tech. degree level, but are not eligible for the award of ranks.
15OB 5.9	A student shall be declared to have completed the program of B.E. / B.Tech., degree, provided the student has undergone the stipulated course work as per the regulations and has earned at least 200 Credits.
15OB 6	<b>MAXIMUM DURATION FOR COURSE COMPLETION</b>
15OB 6.1	A student who has not obtained the eligibility for third semester after a

	period of three academic years from the date of first admission shall discontinue the course. However, the student is eligible for readmission for first year B.E./B.Tech. in respective College of the University and he/ she shall be allotted a University Seat Number (USN) without any change in the year of admission in the USN but the serial number of the student shall start with six hundred (6XX) series in the same branch.
15OB 6.2	The student admitted to 1 <sup>st</sup> year B.E/ B.Tech. shall complete the course within a period of eight academic years from the date of first admission, failing which he/she has to discontinue the course. The students admitted under lateral entry scheme (2nd Year B.E./B.Tech.) shall complete the course within a period of six academic years from the date of first admission, failing which he/she has to discontinue the course.
15OB 7	<b>PROMOTION AND ELIGIBILITY FOR THE EXAMINATIONS</b>
15OB 7.1	There shall not be any restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.
15OB 7.2	A student shall be eligible for promotion from an even semester to the next odd semester (i.e. of the next academic year) if the student has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the subjects of all the lower semester examinations. A theory or practical shall be treated as a head of passing. <b>Illustrations</b> a. A student seeking eligibility to 3 <sup>rd</sup> semester should not have failed in more than 4 heads of passing of first and second semesters taken together. b. A student seeking eligibility to 5 <sup>th</sup> semester should have passed in all the subjects of 1 <sup>st</sup> and 2 <sup>nd</sup> semesters and should not have failed in more than 4 heads of passing of third and fourth semesters taken together. c. A student seeking eligibility to 7 <sup>th</sup> semester should have passed in all the subjects up to 4 <sup>th</sup> semester and should not have failed in more than 4 heads of passing of 5 <sup>th</sup> and 6 <sup>th</sup> semesters taken together.  <b>The Subjects:</b> 1. Constitution of India, Professional Ethics and Human Rights, and 2. Environmental Studies are Mandatory Non-Credit Courses; these subjects shall not be considered for the Eligibility for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above subjects is mandatory before the completion of Degree.
15OB 8	<b>COURSES</b>

15OB 8.1	<p>There will be Four types of courses</p> <p><b>(i) Core Courses:</b> This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirements of a program in a said discipline of study. These courses will have 4 credits per course.</p> <p><b>(ii)Foundation Courses:</b> The Foundation Courses are of two kinds: <i>Compulsory Foundation</i> and <i>Elective foundation</i>.</p> <p>“Compulsory Foundation”: These courses are the courses based upon the content that leads to Knowledge enhancement. They are mandatory for all disciplines. These courses will have 4 credits per course.</p> <p>“Foundation Electives”: These are value based courses aimed at man making education. These courses will have 3 credits per course.</p> <p><b>(iii)Elective Courses:</b> This is course, which can be chosen from the pool of papers. It may be supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline / domain / nurturing student proficiency skills. These courses will have 3 credits per course.</p> <p><b>(iv)Mandatory Non-Credit Courses:</b> These courses are mandatory for students joining B.E./B.Tech. Program and students have to successfully complete these courses before the completion of degree.</p>
15OB 8.2	The minimum number of students to be registered for an Elective to be offered shall be not less than ten.
15OB 8.3	A student shall exercise his option in respect of the electives and register for the same at the beginning of the concerned semester. The student may be permitted to opt for change of elective subject within 15 days from the date of commencement of the semester as per the calendar of the University.
15OB 9	<b>INTERNSHIP</b>
15OB 9.1	<p><b>Internship:</b> The student shall undergo an Internship for 8 weeks i.e. starting from the end of 7<sup>th</sup> semester Examination after availing one week vacation and completing during the initial period of 8<sup>th</sup> semester.</p> <ol style="list-style-type: none"> <li>1. The college shall nominate a faculty for a group of students to prepare the students for internship.</li> <li>2. The students shall report the progress of the internship to the guide in regular intervals and may seek his/her advise.</li> <li>3. The Internship shall be completed between 7<sup>th</sup> and 8<sup>th</sup> semesters.</li> <li>4. After completion of 7<sup>th</sup> semester Theory and Practical examinations, the students shall have one week vacation.</li> <li>5. Immediately after availing one week vacation, the students shall undergo internship (without waiting for the results) which may be a period of 4/5 weeks.</li> </ol>

6. The remaining period of internship; i.e. 4/3 weeks shall be completed during the initial period of the 8<sup>th</sup> semester.
7. After completion of Internship, students shall submit a report to the college with the approval of both internal and external guides.
8. There will be 50 IA and 50 External marks for Internship.
9. The guide shall be the internal examiner and IA marks out of 50 are to be awarded by the internal guide after evaluating the Internship Report submitted by the student.
10. Viva-Voce on internship shall be conducted at the college and the date of Viva-Voce shall be fixed in consultation with the external Guide.
11. Viva-Voce on internship shall be conducted by both internal and external guides and jointly evaluate the internship report for 50 marks. The expenses of external guide are to be borne by the student/college.
12. In case of the non availability of external guide for the conduct of viva-voce, the Principal shall appoint a senior faculty of the department to conduct viva-voce along with the internal guide, and they jointly evaluate the internship report for 50 marks.
13. The students are permitted to carry out the internship outside India with the following conditions:
  - a. The entire expenses are to be borne by the student or college and the University will not give any financial assistance.
  - b. The Internal Guide has to visit at least once during the student's internship; the expenses of the visit are to borne by the student/college.
  - c. The external guide from the industry has to be an examiner for the viva voce on Internship, and the expenses are to be borne by the student/ college.
  - d. The University will not provide any kind of Financial Assistance to any student for internship and for the conduct of Viva-Voce on internship.



15OB9.2	<b>Report on Internship:</b> The College shall facilitate and monitor the student internship program. The internship report of each student shall be submitted to the Head of the Department of the college with the approval of the Guide.																											
15OB9.3	<b>Failing to undergo Internship:</b> Completion of internship is mandatory; if any student fails to complete internship, he/she will not be eligible for the award of degree.																											
15OB9.4	<b>Non-completion of Internship:</b> In such cases, the student has to redo the internship.																											
15OB 10	<b>SEMINAR AND PROJECT</b>																											
15OB 10.1	Seminar topic shall be selected from the emerging technical areas only.																											
15OB 10.2	Project work at 8 <sup>th</sup> semester shall be completed batch wise, each batch consisting of minimum of two students and maximum four students.																											
15OB 10.3	<i>Viva-voce</i> examination in project work shall be conducted batch-wise.																											
15OB 11	<b>COMPUTATION OF SGPA AND CGPA</b>																											
	<p>i. The VTU adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated every semester, except the first semester.</p> <p>ii. The grading system is with the following letter grades as given below:</p> <p><b>Grades and Grade Points</b></p> <table border="1"> <thead> <tr> <th>Level</th> <th>Out-standing</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Poor</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td><b>Letter Grade</b></td> <td><b>O</b></td> <td><b>S</b></td> <td><b>A</b></td> <td><b>B</b></td> <td><b>C</b></td> <td><b>D</b></td> <td><b>E</b></td> <td><b>F</b></td> </tr> <tr> <td><b>Grade Points</b></td> <td><b>10</b></td> <td><b>9</b></td> <td><b>8</b></td> <td><b>7</b></td> <td><b>6</b></td> <td><b>5</b></td> <td><b>4</b></td> <td><b>00</b></td> </tr> </tbody> </table> <p>iii. A student obtaining Grade “F” shall be considered failed and will be required to reappear in the examination. Such students after passing the failed subject in subsequent examination/s will be awarded with “E” grade irrespective of marks he/she scores in the subsequent examination/s. Number of attempts taken to clear a subject/s shall be shown in the transcripts.</p>	Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail	<b>Letter Grade</b>	<b>O</b>	<b>S</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>Grade Points</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>00</b>
Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail																				
<b>Letter Grade</b>	<b>O</b>	<b>S</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>																				
<b>Grade Points</b>	<b>10</b>	<b>9</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>4</b>	<b>00</b>																				

### Grade Points Scale

Level	Out-standing	Excellent	Very Good	Good	Above Average	Average	Poor	Fail
Letter Grade	O	S	A	B	C	D	E	F
Grade Points	10	9	8	7	6	5	4	00
Score (Marks) Range (%)	≥ 90	<90	< 80 ≥70	< 70 ≥60	< 60 ≥50	< 50 ≥45	<45 ≥40	< 40

### Computation of SGPA and CGPA

The following procedure to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

- i. The SGPA is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e

$$\text{SGPA (Si)} = \frac{\sum(C_i \times G_i)}{\sum C_i}$$

where  $C_i$  is the number of credits of the  $i^{\text{th}}$  course and  $G_i$  is the grade point scored by the student in the  $i^{\text{th}}$  course.

- ii. The CGPA is also calculated in the same manner taking into account all the courses undergone by a student over all the semesters of a programme, i.e.

$$\text{CGPA} = \frac{\sum(C_i \times S_i)}{\sum C_i}$$

where  $S_i$  is the SGPA of the  $i^{\text{th}}$  semester and  $C_i$  is the total number of credits in that semester.

- iii. The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.

## Illustration for Computation of SGPA and CGPA

### Computation of SGPA

#### Illustration No.1

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 = 32
Course 2	4	C	6	4x6 = 24
Course 3	4	B	7	4x7 = 28
Course 4	3	O	10	3x10= 30
Course 5	3	D	4	3x4 = 12
Course 6	3	C	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	C	6	2x6 = 12
	25			174

Thus, **SGPA= 174/25=6.96**

#### Illustration No.2

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 = 32
Course 2	4	C	6	4x6 = 24
Course 3	4	B	7	4x7 = 28
Course 4	3	O	10	3x10= 30
Course 5	3	F	0	3x0 = 00
Course 6	3	C	6	3x6 = 18
Course 7	2	S	9	2x9 = 18
Course 8	2	C	6	2x6 = 12
	25			162

Thus, **SGPA= 162/25=6.48**

#### Illustration No.2(a)

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 5	3	E	4	3x4 =12
	25			Ci (First Attempt)162 + Ci (subsequent attempt) 12= 174

Thus, **SGPA= 174/25=6.96**

#### Illustration No.3

Course	Credit	Grade letter	Grade point	Credit Point (Credit x Grade)
Course 1	4	A	8	4x8 =32
Course 2	4	C	6	4x6 =24

Course 3	4	B	7	4x7 =28
Course 4	3	O	10	3x10=30
Course 5	3	S	9	3x9 =27
Course 6	3	C	6	3x6 =18
Course 7	2	S	9	2x9 =18
Course 8	2	C	6	2x6 =12
	25			189

Thus, **SGPA= 189/25=7.56**

$$CGPA = \frac{25 \times 6.96 + 25 \times 7.56}{50} = 7.26$$

**CGPA after Final Semester**

Sem. - 1	Sem. - 2	Sem. - 3	Sem. - 4	Sem. - 5	Sem. - 6	Sem. - 7	Sem. - 8
Credit : 24 SGPA:7	Credit:24 SGPA:8.5	Credit : 27 SGPA:9.2	Credit : 27 SGPA:6.86	Credit :24 SGPA:8.18	Credit : 24 SGPA:7.73	Credit : 24 SGPA:8.68	Credit : 26 SGPA:9.4

Thus, **CGPA=  $\frac{24 \times 7 + 24 \times 8.5 + 27 \times 9.2 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.4}{200} = 8.2$**

**Transcript (Format):** Based on the above recommendations on Letter grades, grade points, SGPA and CCPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters may be issued.

15OB 12

**CONVERSION OF GRADES INTO PERCENTAGE:**

Conversion formula for the conversion of GPA into Percentage is [CGPA Earned - 0.75] x 10= Percentage of marks scored.

**Illustration:** [CGPA Earned 8.2 - 0.75]x 10 = 74.5%

15OB 13

**AWARD OF PRIZES, MEDALS & RANKS**

15OB 13.1

For the award of Prizes and Medals, the conditions stipulated by the Donor may be considered subject to the provisions of the statutes framed by the University for such awards.

15OB 13.2

For award of ranks in a branch, a minimum of 10 students should have appeared in the 8<sup>th</sup> semester examination. The total number of ranks awarded shall be 10% of total number of students appeared in 8<sup>th</sup> semester or 10 students, whichever is less in that branch.

Illustration:

1. If 1028 students appeared for the 8<sup>th</sup> semester in Electronics and Communication Engineering Branch, the number of ranks to be awarded for Electronics and Communication Engineering will 10.
2. If 90 students appeared for the 8<sup>th</sup> semester in Biomedical Engineering Branch, the number of ranks to be awarded for Biomedical Engineering will be 09.

15OB  
13.3

For award of rank in a branch of Engineering / Technology, the CGPA secured by the student from

- a) 1<sup>st</sup> to 8<sup>th</sup> semester for the students admitted to B.E./B.Tech. Program from 1<sup>st</sup> year, and

	<p>b) 3<sup>rd</sup> to 8<sup>th</sup> semester for the students admitted to B.E./B.Tech. Program from 2<sup>nd</sup> year (Lateral Entry) shall be considered.</p> <p>A student shall be eligible for a rank at the time of award of degree in each branch of Engineering / Technology, provided the student</p> <p>a. Has passed 1<sup>st</sup> to 8<sup>th</sup> (students joining from 1<sup>st</sup> semester) or 3<sup>rd</sup> to 8<sup>th</sup> (in case of lateral entry) semester in all the subjects in first attempt only</p> <p>b. Has not repeated/rejected any of the lower semesters.</p>
15OB 13.4	<p>If two students get the same CGPA, the tie should be resolved by considering the number of times a student has obtained higher SGPA; but, if it is not resolved even at this stage, the number of times a student has obtained higher grades like O, S, A, B etc shall be taken into account in rank ordering of the students in a program.</p>
15OB 14	<b>TRANSFER OF STUDENTS</b>
15OB14.1	<p>Transfer of students from one college to another college within Karnataka state shall be permitted only at the beginning of third, fifth, and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges and subject to the prior approval of the University and the provisions of 15OB 7.2.</p> <p>In the case of students from Universities other than VTU the students should have passed in all the courses of 1<sup>st</sup> &amp; 2<sup>nd</sup> semesters for admission to 3<sup>rd</sup> semester and all the courses of 1<sup>st</sup> to 4<sup>th</sup> semesters for admission to 5<sup>th</sup> semester and all the courses of 1<sup>st</sup> to 6<sup>th</sup> semesters for admission to 7<sup>th</sup> semester.</p> <p>The students seeking admission from Universities other than VTU shall have to</p> <p>a. apply for establishment of equivalence with prescribed fees as notified by the VTU and</p> <p>b. Obtain No Objection for admission from the university before commencement of term as notified by VTU.</p>
15OB14.2	<p>Transfer of students within the College from one branch to another branch at 3<sup>rd</sup> semester shall be permitted with the prior approval of the VTU and subject to the provisions made by the Government of Karnataka and AICTE in this behalf.</p>
15OB14.3	<p>The University may prescribe fee for administrative purpose (for updating of the records), which shall be notified from time to time, for transfer from one college to another (Change of College) or one branch to another branch (change of branch within the college).</p>

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**NOTE: These regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be binding on all and may be modified from time to time.**

# Visvesvaraya Technological University, Belagavi



**REGULATIONS GOVERNING  
THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech)  
UNDER CHOICE BASED CREDIT SYSTEM (CBCS)  
Effective from the academic year 2017 – 18**

**AUGUST2017**

# Visvesvaraya Technological University, Belagavi

## REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) Effective from the academic year 2017 – 18

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# Visvesvaraya Technological University, Belagavi

## REGULATIONS GOVERNING THE DEGREE OF BACHELOR OF ENGINEERING/ TECHNOLOGY (B.E/B.Tech) UNDER CHOICE BASED CREDIT SYSTEM (CBCS) Effective from the academic year 2017 – 18

### Definitions of Keywords

The following are the definitions/descriptions that have been followed for the different terms used in the Regulations of B.E/B.Tech. Programmes:

- 1) **Programme:** Is an educational programme in a particular stream/ branch of Engineering/branch of specialization leading to award of Degree. It involves events/activities, comprising of lectures/ tutorials/ laboratory work/ field work, outreach activities/ project work/ vocational training/ viva/ seminars/ Internship/ assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) **Branch:** Means Specialization or discipline of B.E/B.Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, Textile Engineering, etc.
- 3) **Semester:** Refers to one of the two sessions of an academic year (vide: serial number 4), each session being of sixteen weeks duration (with working days greater than or equal to ninety).The odd semester may be scheduled from August and even semester from February of the year.
- 4) **Academic Year:** Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.
- 5) **Course:** Refers to usually referred to as 'papers' and is a component of a programme. All Courses need not carry the same weight. The Courses should define learning objectives and learning outcomes. A Course may be designed to comprise lectures/ tutorials/ laboratory work/ field work/ outreach activities/project work/ vocational training/ viva/ seminars/ term papers/assignments/ presentations/ self-study etc., or a combination of some of these.
- 6) **Credit:** Refersto a unit by which the Course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork per week etc.
- 7) **Audit Courses:** Means Knowledge/ Skill enhancing Courses without the benefit of a grade or credit for a Course.
- 8) **Choice Based Credit System (CBCS):** Refers to customizing the Course work, through Core, Elective and soft skill Courses, to provide necessary support for the students to achieve their goals.
- 9) **Course Registration:** Refers to formal registration for the Courses of a semester (Credits) by every student under the supervision of a Faculty Advisor (also called Mentor, Counselor etc.,) in each Semester for the Institution to maintain proper record.
- 10) **Course Evaluation:** Means Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE) to constitute the major evaluations prescribed for each Course. **SEE and CIE to carry 60% and 40% respectively, to enable each Course to be evaluated for 100 marks, irrespective of its Credits.**
- 11) **Continuous Internal Evaluation (CIE):** Refers to evaluation of students' achievement in the learning process. CIE shall be by the Course Instructor and includes tests, homework, problem solving, group discussion, quiz, mini-project and seminar throughout the Semester, with weightage for the different components being fixed at the University level.



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- 12) **Semester end examinations (SEE):** Refers to examination conducted at the University level covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module, with a choice confined to the concerned module only. SEE is also termed as university examination.
- 13) **First Attempt:** Refers to a student who has completed all formalities and has become eligible to attend the SEE and has attended at least one head of passing, such attempt shall be considered as first attempt.
- 14) **Credit Based System (CBS):** Refers to quantification of Course work, after a student completes teaching – learning process, followed by passing in both CIE and SEE. Under CBS, the requirement for awarding degree is prescribed in terms of total number of credits to be earned by the students.
- 15) **Credit Representation:** Refers to Credit Values for different academic activities considered, as per the Table.1. Credits for seminar, project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examination (Annexure -1).

<b>Table 1: Credit Values</b>				
<b>Theory/Lectures (L)</b> <b>(hours/week/Semester)</b>	<b>Tutorials (T)</b> <b>(hours/week/Semester)</b>	<b>Laboratory/Practical (P)</b> <b>(hours/week/Semester)</b>	<b>Credits</b> <b>(L:T:P)</b>	<b>Total</b> <b>Credits</b>
4	0	0	4:0:0	4
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
2	2	2	2:1:1	4
0	0	6	0:0:3	3

**NOTE:** Activities like, practical training, study tour and participation in Guest lectures not to carry Credits.

- 16) **Letter Grade:** It is an index of the performance of students in a said Course. Grades are denoted by letters S, A, B, C, D, E and F.
- 17) **Grading:** Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in (CIE plus SEE). Grading is done by Absolute Grading [Refer: 17OB6.0]. The rubric attached to letter grades are as follows:  
 S – Outstanding, A – Excellent, B – Very Good, C – Good, D – Above Average, E – Average and F – Fail.
- 18) **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

<b>Letter Grade and corresponding Grade Points on a typical 10 – Point scale</b>							
<b>Letter Grade</b>	S	A	B	C	D	E	F
<b>Grade Point</b>	10	09	08	07	06	04	00

- 19) **Passing Standards:** Refers to passing a Course only when getting GP greater than or equal to 04 (as per serial number 18).
- 20) **Credit Point:** Is the product of grade point (GP) and number of credits for a Course i.e.,  
**Credit Point (CrP) = GP × Credits for the Course**

- 21) **Semester Grade Point Average (SGPA):** Refers to a measure of academic performance of student/s in a semester. It is the ratio of total credit points secured by a student in various Courses of a semester and the total Course credits taken during that semester. [Refer:17OB6.0]
- 22) **Cumulative Grade Point Average (CGPA):** Is a measure of overall cumulative performance of a student over all semesters. The CGPA is the ratio of total credit points earned by a student in various Courses in all semesters and the sum of the total credits of all Courses in all the semesters. It is expressed up to two decimal places. [Refer: 17OB6.0]
- 23) **Transcript or Grade Card or Certificate:** Refers to a certificate showing the grades earned by a student. A grade certificate shall be issued to all the registered students after every semester. The grade certificate will display the programme details (Course code, title, number of credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) **University:** Visvesvaraya Technological University (VTU), Belagavi.



**Visvesvaraya Technological University, Belagavi**  
**Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E./B.Tech.)**  
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<b>17OB 1.0</b>	<b>Title, Duration and Credits of the Programme of Study</b>
<b>17OB 1.1</b>	The programme of study shall be called the degree of Bachelor of Engineering (Subject of Specialization) /Bachelor of Technology (Subject of Specialization), abbreviated as B.E. / B.Tech. (Subject of Specialization).
<b>17 OB1.2</b>	<p>The program to which students are admitted to I semester of the programme shall be of four academic year duration divided into eight semesters and each semester is of 16 weeks duration.</p> <p>The programme to which students are admitted to III semester of the programme under lateral entry shall be of three academic year duration divided into six semesters and each semester is of 16 weeks duration.</p> <p>The programme (conducted during evening) to which students are admitted to III semester of the programme under lateral entry shall be of three academic year duration divided into six semesters and each semester is of 16 weeks duration. The deficit contact hours of the programme, conducted during evening on all working days, shall be compensated on all Sundays (except on general holidays).</p>
<b>17 OB 1.3</b>	The calendar of events in respect of the program of study shall be notified by the University in advance.
<b>17 OB 1.4</b>	The University examination in all programs of study shall be conducted at the end of each semester for all the eight semesters.
<b>17 OB 1.5</b>	<p><b>Maximum Duration for Programme Completion:</b></p> <p>a)</p> <ol style="list-style-type: none"> <li>i. Students admitted to I year B.E/ B.Tech shall complete the programme within a period of eight academic years from the date of first admission, failing which they have to discontinue the Course.</li> <li>ii. Students admitted II Year B.E./B.Tech. under lateral entry scheme shall complete the Programme within a period of six academic years from the date of first admission, failing which he/she has to discontinue the Course.</li> </ol> <p>b)</p> <ol style="list-style-type: none"> <li>i. A student who has not obtained the eligibility for III semester even after three academic years from the date of admission to I semester shall discontinue the Programme or get readmitted to I semester of first year B.E./B.Tech. with a new University Seat Number but retaining the same year of admission.</li> <li>ii. A student (under lateral entry scheme) who has not obtained the eligibility for V semester even after three academic years from the date of admission to III semester shall discontinue the Programme or get readmitted to III semester of II year B.E./B.Tech. with a new University Seat Number but retaining the same year of admission.</li> </ol>
<b>17 OB 1.6</b>	<p>Prescribed Number of Credits for the Programme:</p> <p>(a) The number of credits to be completed by students admitted I semester of B.E./B.Tech. programme shall be 200</p> <p>(b) The number of credits to be completed by students admitted to III semester of B.E./B.Tech. programme under lateral entry scheme shall be 152</p>

<b>17 OB2.0</b>	<b>Eligibility for Admission(As per the Government orders issued from time to time)</b>
<b>17 OB2.1</b>	<p>Admission to I year/ I semester Bachelor Degree in Engineering/ shall be open to the students who have passed the II PUC/ XII Standard/ Equivalent Examination with English as one of the Languages and obtained a Minimum of 45% of Marks in aggregate in Physics and Mathematics along with Chemistry / Bio-Technology / Biology / Electronics / Computer.</p> <p>In case of SC/ST, Category -1 and OBC (2A, 2B, 3A and 3B) category students from Karnataka (Karnataka candidates) the minimum marks for eligibility shall be 40 %.</p> <p>With regard to the qualification earned from foreign countries, Equivalence certificate from the Association of Indian Universities is Mandatory for admission to B.E./B.Tech. programme. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the Equivalence committee shall be the final in establishing the eligibility of the student.</p> <p>Admission to II year/ III semester Bachelor Degree in Engineering/ Technology (Lateral Entry) shall be open to the Diploma holders and B.Sc. graduates.</p>
<b>17 OB2.2</b>	<p>(i) <b>Diploma Holders</b></p> <p>(a) Must have passed diploma or equivalent examination as recognized by University and secured not less than forty five percentage (45%) marks in the final year examination (fifth and sixth semesters) in the appropriate branch of engineering. In case of SC/ST and OBC students from Karnataka the minimum marks for eligibility shall be forty percent (40%).</p> <p>(b) Those candidates who have completed Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka.</p> <p>(ii) <b>B.Sc. Graduates</b></p> <p>Must have passed B.Sc. degree from a recognized University under the UGC or equivalent qualification as recognized by University and secured not less than forty five percentage (45%) marks in aggregate (considering the marks of all six semesters). In case of SC/ST and OBC students from Karnataka (Karnataka candidates) the minimum marks for eligibility shall be forty percent (40%). Candidates must have studied Mathematics as subject of study at XII Standard.</p>
	<p>(i) <b>Diploma Holders for the programme conducted during evening</b></p> <p>A candidate who has passed diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (fifth and sixth semesters) diploma examination is eligible to B.E Courses, and 40 % of marks in case of SC/ST and backward classes of Karnataka candidates.</p> <p>In addition to this a candidate after passing the diploma, must have minimum of two years full time professional experience as on first September of the year of admission, in a registered firm/company/industry/ educational / Government / Autonomous organizations in the branch of Engineering/ Technology, in which the candidates hold a diploma, and in which admission is sought by him/her.</p>

<b>17 OB2.2</b> <b>(continued)</b>	<p>Further that employment shall be in an establishment situated within the 15 km from the place of the institution to which the candidate is seeking admission. Professional experience refers to the experience earned as an employee on regular basis in,</p> <p>(a) Government, Government Undertaking, Public Sector Undertaking, Corporation or,</p> <p>(b) In a private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or,</p> <p>(c) Government, Government recognized Institutions as technical staff.</p> <p>Provided that the period of apprenticeship undergone shall also be treated as professional experience, if sponsored by the Board of Apprenticeship Training, Southern Region, Chennai or by Government, Government undertakings and Public Sector undertakings.</p> <p>Further, those candidates who have completed Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education, Karnataka.</p>
<b>17 OB2.3</b>	<p>Those students, who have passed a qualifying examination other than the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya Technological University, Belagavi.</p>
<b>17 OB3.0</b>	<b>Courses</b>
<b>17 OB3.1</b>	<p>There shall be the following types of Courses:</p> <p>a) Humanities and Social Sciences (HSS) including Management. These are mandatory for all disciplines.</p> <p>b) Basic Sciences (BS): Physics, Chemistry and Mathematics. These are mandatory for all disciplines.</p> <p>c) Engineering Sciences (ES): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Instrumentation/ Civil/ Mechanical/ Computer Engineering. These are mandatory for all disciplines.</p> <p>d) Professional Subjects (PS) - Core: Are the professional Core (PC) Courses, relevant to the chosen specialization/ branch. The core Courses are to be compulsorily studied by a student and are mandatory to complete them to fulfill the requirements of a programme.</p> <p>e) Professional Subjects (PS) - Elective: Are the professional Electives (PE), relevant to the chosen specialization/ branch and can be chosen from the pool of papers. It shall be supportive to the discipline providing extended scope/enabling an exposure to some other discipline /domain and nurturing student proficiency skills.</p> <p>f) Open Subjects - Electives (OE): Are from other technical areas and/ or from emerging fields.</p> <p>g) Mini project and Main Project: Carried out at the Institution or at an Industry.</p> <p>h) Seminar: Deliverable at the Institution under the supervision of a Faculty.</p> <p>i) Internship: Preferably at an industry/R and D organization/IT company/ Government organization of significant repute for a specified period mentioned in the Scheme of Teaching and Examination.</p> <p>j) Mandatory Courses (MC): These Courses are mandatory, without the benefit of a grade or credit, for students admitted to B.E./B.Tech. program. A pass in each mandatory Course is required to qualify for Degree award from the University.</p>

<p><b>17 OB3.1</b> (continued)</p>	<p>k) Audit Courses (AC): Knowledge/ skill enhancement Courses without the benefit of a grade or credit for a Course.</p> <p>i) The Audit Course/s (other than the Course/s considered for completing the prescribed program credits) can be any Course offered by the program to which the student is admitted to other programs offered in the institution, where the student is studying.</p> <p>ii) The students who are interested in audit Courses can register for one audit Course at a time during III to VIII semesters. Students, who have opted for audit Courses and considered on par with students registered for credit Courses, have to satisfy the attendance and CIE requirements. However, they need not have to appear for SEE. The number of registrations to an audit Course is restricted to 10 % of the AICTE intake.</p> <p>iii) Registration for any audit Course, in writing, shall be completed at the beginning of semesters. The Institution should intimate the Registrar (Evaluation) about the registration at the beginning of the semester and obtain a formal approval for inclusion of the audit Course/s in the Grade cards/ Transcripts issued to the students.</p>
<p><b>17 OB3.2</b></p>	<p>The minimum number of students registered to any Elective offered by the Departments shall be not less than ten.</p>
<p><b>17 OB3.3</b></p>	<p>A student shall exercise his option in respect of Elective Courses and register for the same at the beginning of the concerned semester. The student may be permitted to opt for a change of Elective Course within 15 days from the date of commencement of the semester as per the calendar of the University.</p>
<p><b>17 OB3.4</b></p>	<p><b>Course Registration:</b> Every student shall register for the Courses of a semester (Credits) under the supervision of a Faculty Advisor (also called Mentor, Counselor etc..) in each Semester for the Institution to maintain proper record.</p>
<p><b>17OB4.0</b></p>	<p><b>Internship/Professional Practice</b></p>
<p><b>17OB4.1</b></p>	<p><b>Internship / Professional Practice:</b></p> <ol style="list-style-type: none"> <li>1) The Internship shall be completed during the period specified in the Scheme of Teaching and Examination.</li> <li>2) The internship can be carried out in any industry/R and D Organization/Research Institute/ Educational institute of repute.</li> <li>3) (a) The Department/college shall nominate staff member/s to facilitate, guide and supervise students under internship. (b) The Internal Guide has to visit place of internship at least once during the student's internship.</li> <li>4) The students shall report the progress of the internship to the guide in regular intervals and seek his/her advice.</li> <li>5) After the completion of Internship, students shall submit a report with completion and attendance certificates to the Head of the Department with the approval of both internal and external guides.</li> <li>6) There will be 50 marks for CIE (Seminar: 25, Internship report: 25) and 50 marks for Viva – Voce conducted during SEE. The minimum requirement of CIE marks shall be 50% of the maximum marks. [To be read along with 17 OB 8.6 ]</li> <li>7) The internal guide shall award the marks for seminar and internship report after evaluation. He/she will also be the internal examiner for Viva – Voce conducted during SEE.</li> </ol>

	<p>8) The external guide from the industry shall be an examiner for the viva voce on Internship. Viva-Voce on internship shall be conducted at the college and the date of Viva-Voce shall be fixed in consultation with the external Guide. The Examiners shall jointly award the Viva - Voce marks.</p> <p>9) In case the external Guide expresses his inability to conduct viva voce, the Chief Superintendent of the institution shall appoint a senior faculty of the Department to conduct viva-voce along with the internal guide. The same shall be informed in writing to the concerned Chairperson, Board of Examiners (BOE).</p> <p>10) The students are permitted to carry out the internship anywhere in India or abroad. The University will not provide any kind of financial assistance to any student for carrying out the Internship.</p>																																							
<b>17OB4.2</b>	<b>Failing to undergo Internship:</b> Internship is one of the head of passing. Completion of internship is mandatory. If any student fails to undergo /complete the internship, he/she shall be considered as failed in that Course and shall not be permitted to appear for SEE in that Course. However, student shall appear for SEE after satisfying the conditions prescribed for Internship. The reappearance shall be considered as an attempt.																																							
<b>17OB5.0</b>	<b>Seminar and Project</b>																																							
<b>17OB5.1</b>	<p><b>Seminar:</b> Seminar is one of the head of passing.</p> <p>i) Each candidate shall deliver seminar as per the Scheme of Teaching and Examination on the topics chosen from the relevant fields for about 30 minutes.</p> <p>ii) The Head of the Department shall make arrangements for conducting seminars through concerned faculty members of the Department. The committee constituted for the purpose by the Head of the Department shall award the CIE marks for the seminar. The committee shall consist of three faculty from the Department and the senior most acting as the Chairman/Chairperson. [To be read along with 17 OB 8.6].</p>																																							
<b>17OB5.2</b>	<p><b>Project Work:</b> Project is one of the head of passing.</p> <p>Project work shall preferably be batch wise, the strength of each batch shall not exceed maximum of four students.</p>																																							
<b>17OB5.3</b>	Viva-voce examination in project work shall be conducted batch-wise.																																							
<b>17OB 6.0</b>	<b>Computation of SGPA and CGPA</b>																																							
<b>17OB 6.1</b>	<p>(i) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results will be declared with semester grade point average (SGPA) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated for every semester, except for the first semester.</p> <p>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system are as given below:</p>																																							
	<table border="1"> <thead> <tr> <th>Level</th> <th>Outstanding</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>4</td> <td>00</td> </tr> <tr> <td rowspan="2">Percentage of Marks Scored in a Course</td> <td>≥ 90</td> <td>&lt;90</td> <td>&lt; 80</td> <td>&lt; 70</td> <td>&lt; 60</td> <td>&lt; 45</td> <td>&lt; 40</td> </tr> <tr> <td>(90 -100)</td> <td>≥80</td> <td>≥70</td> <td>≥60</td> <td>≥ 45</td> <td>≥40</td> <td>(0 - 39)</td> </tr> </tbody> </table>	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail	Letter Grade	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	4	00	Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 45	< 40	(90 -100)	≥80	≥70	≥60	≥ 45	≥40	(0 - 39)
Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail																																	
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Percentage of Marks Scored in a Course	≥ 90	<90	< 80	< 70	< 60	< 45	< 40																																	
	(90 -100)	≥80	≥70	≥60	≥ 45	≥40	(0 - 39)																																	

	<p>(iii) A student obtaining Grade 'F' in a Course shall be considered failed and is required to reappear in subsequent SEE. Whatever the letter grade secured by the student during his / her reappearance shall be retained. However the number of attempts taken to clear a Course shall be indicated in the grade cards/ transcripts.</p>
<p><b>17OB 6.2</b></p>	<p><b>Computation of SGPA and CGPA (as per UGC Guidelines)</b></p> <p>The following procedures shall be used to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively:</p> <p>i) The SGPA is the ratio of sum of the product of the number of credits with the grade points secured by a student in all the Courses taken by him/her and the sum of the number of credits of all the Courses undergone by a student, i.e.,</p> $SGPA = \frac{\sum (C_i \times G_i)}{\sum C_i}$ <p>Where <math>C_i</math> is the number of credits of the <math>i^{\text{th}}</math> Course and <math>G_i</math> is the grade point scored by the student in the <math>i^{\text{th}}</math> Course.</p> <p>ii) The CGPA is also calculated in the same manner taking into account all the Courses undergone by a student over all the semesters of a programme, i.e.,</p> $CGPA = \frac{\sum (C_i \times S_i)}{\sum C_i}$ <p>Where <math>S_i</math> is the SGPA of the <math>i^{\text{th}}</math> semester and <math>C_i</math> is the total number of credits in that semester.</p> <p>The SGPA and CGPA shall be rounded off to 2 decimal places and reported in the transcripts.</p>



17OB 6.2  
(continued)

### Illustration for Computation of SGPA and CGPA

#### Computation of SGPA

<b>Illustration No.1</b>				
Course	Credit	Grade letter	Grade point	<b>Credit Point = (Credit × Grade)</b>
Course 1	4	B	08	$4 \times 08 = 32$
Course 2	4	D	06	$4 \times 06 = 24$
Course 3	4	C	07	$4 \times 07 = 28$
Course 4	3	S	10	$3 \times 10 = 30$
Course 5	3	E	04	$3 \times 04 = 12$
Course 6	3	D	06	$3 \times 06 = 18$
Course 7	2	A	09	$2 \times 09 = 18$
Course 8	2	D	06	$2 \times 06 = 12$
Total	25	--	--	174

Thus, **SGPA =  $174/25 = 6.96$**

<b>Illustration No.2</b>				
Course	Credit	Grade letter	Grade point	<b>Credit Point = (Credit × Grade)</b>
Course 1	4	B	08	$4 \times 08 = 32$
Course 2	4	D	06	$4 \times 06 = 24$
Course 3	4	C	07	$4 \times 07 = 28$
Course 4	3	S	10	$3 \times 10 = 30$
Course 5	3	F	00	$3 \times 00 = 00$
Course 6	3	D	06	$3 \times 06 = 18$
Course 7	2	A	09	$2 \times 09 = 18$
Course 8	2	D	06	$2 \times 06 = 12$
Total	25	--	--	162

Thus, **SGPA =  $162/25 = 6.48$**

If a Student secures letter grade C during reappearance then the SGPA is Calculated as shown below.

#### Illustration No. 2(a)

Course	Credit	Grade letter	Grade point	<b>Credit Point = (Credit × Grade)</b>
Course 5	3	C	07	$7 \times 03 = 21$

Total Credit Points = Credit Points of first Attempt) + Credit Points of subsequent attempt  
 $= 162 + 21 = 183$

Total credits of the semester = 25

Thus, **SGPA =  $183/25 = 7.32$**

<b>Illustration No.3</b>				
Course	Credit	Grade letter	Grade point	<b>Credit Point = (Credit x Grade)</b>
Course 1	4	B	08	$4 \times 08 = 32$
Course 2	4	D	06	$4 \times 06 = 24$
Course 3	4	C	07	$4 \times 07 = 28$
Course 4	3	S	10	$3 \times 10 = 30$
Course 5	3	A	09	$3 \times 04 = 18$
Course 6	3	D	06	$3 \times 06 = 18$
Course 7	2	A	09	$2 \times 09 = 18$
Course 8	2	D	06	$2 \times 06 = 12$
Total	25	--	--	189

Thus, **SGPA =  $189/25 = 7.56$**

**CGPA (from illustrations 2 and 3) =  $\frac{25 \times 7.32 + 25 \times 7.56}{50} = 7.44$**

<b>17OB 6.2</b> (continued)	<b>Semester</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>VI</b>	<b>VII</b>	<b>VIII</b>
	Credits of the semester	24	24	27	27	24	24	24	26
	SGPA	7.00	8.50	9.20	6.86	8.18	7.73	8.68	9.40
	<b>Thus CGPA</b> $= \frac{(24 \times 7.00 + 24 \times 8.50 + 27 \times 9.20 + 27 \times 6.86 + 24 \times 8.18 + 24 \times 7.73 + 24 \times 8.68 + 26 \times 9.40)}{200} = 8.20$								
<b>17OB 6.3</b>	<b>Transcript Format:</b> Based on the secured letter grades, grade points, SGPA and CGPA, the transcript for each semester and a consolidated transcript indicating the performance in all semesters shall be issued.								
<b>17OB 7.0</b>	<b>Conversions of Grades into Percentage and Declaration of Class</b>								
<b>17OB 7.1</b>	Conversion Formula For The Conversion Of CGPA Into Percentage Is Given Below Percentage Of Marks Secured, $P = [CGPA \text{ Earned} - 0.75] \times 10$ <b>Illustration For A CGPA Of 8.20:</b> $P = [CGPA \text{ Earned } 8.2 - 0.75] \times 10 = 74.5 \%$								
<b>17OB 7.2</b>	<b>Class Declaration:</b> After the conversion of final CGPA into percentage of marks (P), a graduating student is declared to have passed in (i) First Class with Distinction (FCD) if $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $<70\%$ and (iii) Second Class (SC) if $P < 60\%$ .								
<b>17OB8.0</b>	<b>Continuous Internal Evaluation</b>								
<b>17OB8.1</b>	For each theory and practical paper, the CIE marks shall be 40. For Technical seminar, the CIE marks shall be 100. For Internship/ Professional Practice, the CIE marks shall be 50. For Project Phase –I and Project seminar and Project Phase –II, the CIE shall be 100 respectively.								
<b>17OB8.2</b>	CIE Marks in each theory Course shall be the sum of marks prescribed for test and assignment. Marks prescribed for test shall be 30 and that for assignment is 10. The CIE marks for test in a theory Course shall be based on three tests generally conducted at the end of fifth, tenth and fourteenth week of each semester. Each test shall be conducted for a maximum of 30 marks and the final marks shall be the average of three tests. The remaining 10 marks shall be awarded based on the evaluation of Assignments/Unit tests/written Quizzes that support to cover some of the Course/program outcomes. Final CIE marks awarded shall be the sum of these two out of maximum of 40 marks. The candidates shall write the Internal Assessment Tests and Assignments/Unit-tests/written Quizzes in Blue Books which shall be preserved by the Principal/ Head of the Department for at least three years after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).								

<b>17OB8.3</b>	In the case of a Practical, the CIE marks shall be based on the laboratory journals/ records (30 Marks on continuous evaluation based on conduct of experiment, viva and report writing) and one practical test (10 Marks) to be conducted at the end of the semester.
<b>17OB8.4</b>	(i) The CIE marks for I year Computer Aided Engineering / Drawing: a) 24 marks for class work (sketching and Computer Aided engineering Drawing). b) 16 marks for test conducted in the same pattern as that of SEE (The marks secured can be taken as best of the two tests). (ii) The CIE marks for other Drawings/ Design Drawings offered by various branches shall be based on the evaluation of the sheets and one test in the ratio 60:40.
<b>17OB8.5</b>	The CIE marks in the case of projects and seminars in the final year shall be based on the evaluation at the end of VIII semester by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the project / seminar guide.
<b>17OB8.6</b>	i. For theory Courses, there shall not be any minimum requirements of CIE marks. ii. Minimum requirement of CIE marks for Practical/ Internship/Project work shall be 50% of the maximum marks. iii. For seminar, the minimum requirement of CIE marks shall be 40% of the maximum marks.
<b>17OB8.7</b>	i) Students failing to secure a minimum of 50% of the CIE marks in Practical/ Internship/Project work shall not be eligible for the Practical / Internship/Project examination conducted by the University and they shall be considered as failed in that/those Course/s. However, they can appear for University examinations conducted in other Courses of the same semester and backlog Courses if any. Students after satisfying the prescribed minimum CIE marks in the Course/s when offered during subsequent semester shall appear for SEE. ii) If any student fails to secure a minimum of 40% of the maximum CIE marks in seminar/ fails to deliver the seminar, he/she shall be considered as failed in that Course and shall not be eligible for the award of degree. However, the student shall become eligible for the award of degree after satisfying the requirements prescribed for seminar during the subsequent semester/s. iii) The Course/s under 17OB8.6 (ii) and (iii), when repeated are considered as attempts.
<b>17OB8.8</b>	CIE marks of those students, who come under 17OB8.7, shall be sent separately to the Registrar (Evaluation).
<b>17OB8.9</b>	If a student remains absent for all the CIE tests conducted, the CIE Marks shall be marked as AB for the Courses against the University Seat Number (USN) of the student in the marks sheet submitted to the University by the Principal of the College.
<b>17OB8.10</b>	Improvement of CIE marks shall not be allowed in a. Theory Courses and b. Laboratory/Workshop/Seminar/Internship/Project where the student has already secured the minimum required marks.
<b>17OB8.11</b>	The final list, incorporating corrections (if any) of CIE marks awarded to the students in the Theory/Practical/Internship/Project work/ Seminar, shall be displayed on the notice board of the college at least seven days before the closure of the semester and a certified copy of the same shall be sent by the Principal to the University Examination Section within the stipulated date. Every page of the CIE marks sheet shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.
<b>17OB8.12</b>	Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall indicate the number of corrections on every sheet and attest it with his/her signature.

<b>17OB8.13</b>	CIE marks shall reach the University before the commencement of examination as per the notification issued from the office of the Registrar (Evaluation) from time to time. After the submission of CIE marks to the University, any request under any circumstances for change of CIE marks shall not be considered.
<b>17OB 9.0</b>	<b>Eligibility for Passing and Award of Degree(To be read along with 17OB4.2, 5.1, 5.2, 8.6 and 8.7)</b>
<b>17OB 9.1</b>	<p>(a) For a pass in a theory Course/Drawing, the student shall secure minimum of 35% of the maximum marks prescribed in the University examination and in total 40% of the maximum marks (i.e., prescribed for SEE and CIE) including the CIE marks secured by the student.</p> <p>(b) The Minimum Passing letter grade in a Course is 'E'.</p> <p>(c) For a pass in a Practical/Internship/Project/Viva-voce examination, a student shall secure a minimum of 40% of the maximum marks prescribed for the University Examination. The Minimum Passing Grade in a Course is 'E'.</p>
<b>17OB 9.2</b>	<p>1) A student who obtain any grade from 'S' to 'E' shall be considered as passed.</p> <p>2) If a student secure F grade in any of the head of passing (17 OB 4.2, 17 OB 5.1, 17 OB 5.2 and 17 OB 11.2) he/she has to reappear in that head for the SEE.</p> <p>3) A student will be declared successful at the end of academic year if he/she has not more than four 'F' grades in the immediate preceding two semesters.</p> <p>4) A student will be declared successful at the end of program, when he/she has none of the Courses remaining with F grade and shall have CGPA of greater than or equal to 5.00.</p> <p>5) In case, the CGPA falls below 5.00 at the end of the program, the student shall be permitted to appear again for SEE in full or part of the previous semester Courses by rejecting the performance for required number of Course/s (other than seminar, Project and Practical's) and times, subject to the provision of 17OB1.5, to make up CGPA equal to or greater than 5.0. The student should reject the SEE results of the previous attempt and obtain written permission from the Registrar (Evaluation) to reappear in the subsequent SEE.</p>
<b>17OB 9.3</b>	<p>The students who do not satisfy the provision 17OB9.2 (1) and the students who remain absent for the University examinations shall be deemed to have failed in that Course/s. They have to reappear for the University examination in the subsequent examinations. The CIE marks awarded to the student/s at first attempt in the concerned theory Course/s will be carried forward.</p> <p>Revised CIE marks are considered only in cases under the provisions of 17OB8.7.</p>
<b>17OB 9.4</b>	Students who pass a Course of a semester as per 17OB 9.1 and has earned CGPA equal to or greater than 5.00 shall not be allowed to appear for any individual Course/s again, unless they opt for rejection of results of entire semester as per 17OB 9.5.
<b>17OB9.5</b>	A student may, at his/her desire, reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in University examination of a semester. The rejection is permitted only once during the entire programme of study.
<b>17OB9.6</b>	The student who desires to reject the results of a semester shall reject performance in all the Courses of the semester, irrespective of whether the student has passed or failed in any Course. However, the rejection of performance of VIII semester project shall not be permitted.

<b>17OB9.7</b>	<p>A student, who desires to reject the total performance of a semester including CIE marks, has to take readmission for that semester.</p> <p>Application for approval of readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons.</p> <p>Readmission to First semester in such cases shall not be considered as fresh admission and therefore the student will continue to have the same University Seat Number, which was allotted earlier. The Course duration (as per 17OB1.5) will be counted with reference to old USN.</p>
<b>17OB9.8</b>	<p>The student, who rejects only the results of University examination of a semester, shall be permitted to re-appear for University examinations of all the Courses of that semester in the subsequent examinations. However, the CIE marks obtained by the student in the rejected semester shall be retained.</p> <p>Applications for rejection and approval to reappear for University examination shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons.</p> <p>If the rejection of results of University examination is of odd semester, the student shall be allowed to take admission to the immediate next even semester. However, if the rejection of results of University examination is of even semester, then the student shall not be allowed to take admission to the next odd semester (as per 17OB11.2).</p>
<b>17OB9.9</b>	<p>Students who opt for rejection of results of University examination are eligible for the award of class and distinction, but are not eligible for the award of ranks.</p>
<b>17OB9.10</b>	<p>A student shall be declared to have completed the program of B.E. / B.Tech. degree, provided the student has undergone the stipulated Course work as per the Scheme of Teaching and Examination and has earned the prescribed number of credits as per the provision 17OB1.6, having CGPA <math>\geq 5</math> with none of the registered courses remaining with 'F' grade.</p>
<b>17OB10.0</b>	<p><b>Attendance Requirement</b></p>
<b>17OB10.1</b>	<p>Courses of each semester shall be treated as a separate unit for calculation of the attendance. The candidate has to put in a minimum attendance of 85% in each Course with a provision to condone 10% of the attendance by the Vice-Chancellor on the specific recommendations of the Principal of the college where the candidate is studying, based on medical grounds, participation in University/State/ National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value. The supporting documents for condoning the shortage of attendance are to be submitted along with the recommendations.</p>
<b>17OB 10.2</b>	<p>The datum for the calculation of attendance shall be the number of Teaching hours prescribed for a Course [50 hours for 04 credit Courses (theory), and 40 hours for 03 credit Courses (theory) counted from the date of commencement of the semester. In case of Laboratories, the number of classes (deemed as teaching hours) is equal to the number of experiments prescribed under main heading].</p> <p>In case of late admission, approved by competent authority (DTE/VTU), to I semester/III semester (lateral entry scheme)/ III semester (lateral entry scheme) of Engineering programme conducted during evening the attendance shall be reckoned from the date of admission to the programme.</p>

<b>17OB10.3</b>	The Course Instructor/ Mentor/College shall inform the students as well as their parents about the attendance status periodically. Students who are facing the shortage of attendance be mentored to make up the shortage. Principals shall also notify every month, the list of candidates who are under short of attendance.
<b>17OB10.4</b>	A candidate, who does not satisfy the attendance requirement (in one or more Courses) as mentioned in 17OB10.1 shall not be eligible to appear for the SEE of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.
<b>17OB 10.5</b>	The list of the candidates falling short of attendance shall be sent to Registrar (Evaluation) at least once in a month and final list shall be sent one week prior to the commencement of the examination. The detained students should obtain permission from Registrar, VTU for readmission to the semester concerned as a repeater.
<b>17OB 11.0</b>	<b>Promotion and Eligibility</b>
<b>17OB 11.1</b>	There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.
<b>17OB 11.2</b>	A student shall be eligible for promotion from an even semester to next odd semester if the student has not failed in more than four heads of passing of the immediately preceding two semesters and has passed in all the Courses of all the lower semester examinations. Each credit Course shall be treated as a head of passing. <b>Illustrations:</b> a) A student seeking eligibility to III semester should not have failed in more than 4 heads of passing of I and II semesters considered together. b) A student seeking eligibility to V semester should have passed in all the subjects of I and II semesters and should not have failed in more than 4 heads of passing of III and IV semesters considered together. c) A student seeking eligibility to VII semester should have passed in all the subjects up to IV semester and should not have failed in more than 4 heads of passing of V and VI semesters considered together. <b>Lateral entry scheme:</b> a. A student seeking eligibility to V semester should not have failed in more than 4 heads of passing of III and IV semesters considered together. b. A student seeking eligibility to VII semester should have passed in all the subjects of III and IV semesters and should not have failed in more than 4 heads of passing of fifth and sixth semesters considered together.

<b>17OB 11.3</b>	<p>a. All students admitted to I semester and to III semester under lateral entry scheme to B.E./B.Tech. programme have to undergo the Mandatory non – credit Courses viz., Environmental Studies and English Language. However these Courses shall not be considered for the Eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA.</p> <p>b. The Courses viz., Advanced Mathematics I and II, to be completed by the candidates (diploma holders) admitted to III semester under lateral entry scheme shall not be considered for the eligibility criterion prescribed for promotion, award of Class, calculation of SGPA and CGPA. However, a pass in the above Courses is mandatory for the completion of the programme and award of degree.</p> <p>c. The Courses Viz., (i) Computer Aided Engineering Drawing (ii) Programming in C and Data structure and (iii) Environmental Studies (if not studied at B.Sc. level), to be completed by the candidates who have passed B.Sc. degree and admitted to III semester of the programme, shall not be considered for the award of Class, calculation of SGPA and CGPA. However, a pass in the above Courses is mandatory for the completion of the programme and award of degree.</p>
<b>17OB 12.0</b>	<b>Temporary Discontinuation/Break in the Program</b>
<b>17OB 12.1</b>	<p>a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the programme during any semester intentionally, he/she may be permitted to continue the programme by registering to the same semester of the prevailing scheme. The candidate shall complete all the remaining Course work subject to the provision 17 OB 1.5. Also the Candidates may have to complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criterion prescribed for promotion. However, based on the individual cases, it is considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidates shall not be eligible for the award of rank.</p> <p>b) Candidates who takes admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons have to complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criterion prescribed for promotion. However, based on the individual cases, it is considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidate shall not be eligible for the award of rank.</p>

<b>17OB 13.0</b>	<b>Award of Prizes, Medals and Ranks</b>
<b>17OB 13.1</b>	For the award of Prizes and Medals, the conditions stipulated by the Donor shall be considered subject to the provisions of the statutes framed by the University for such awards.
<b>17OB 13.2</b>	<p>1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA secured by the students from III to VIII semester is considered.</p> <p>2) A student shall be eligible for a rank at the time of award of degree of Bachelor of Engineering/ Technology, provided the student,</p> <p>a)</p> <p>(i) Has passed I to VIII semester in all the Courses in first attempt only in case of candidates admitted I year.</p> <p>(ii) Has passed III to VIII semester in all the Courses in first attempt only in case of candidates admitted under lateral entry scheme.</p> <p>(iii) Has completed all the prescribed Audit/mandatory Courses.</p> <p>b) Is not a repeater in any semester because of rejection of result of a semester/ shortage of attendance etc.</p> <p>c) Has completed all the semesters without any break/discontinuity.</p> <p>d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college or in any VTU affiliated non-autonomous college.</p> <p>e) Has not been transferred from autonomous institution affiliated to VTU or from any other University.</p> <p>3) The total number of ranks awarded shall be 10% of total number of students appeared in VIII semester subject to a maximum of 10 ranks in a Specialization.</p> <p>4) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the VIII semester examination.</p> <p><b>Illustration:</b></p> <p>a. If 1228 students appeared for the VIII semester in Electronics and Communication Engineering programme, the number of ranks to be awarded for Electronics and Communication Engineering shall be 10.</p> <p>b. If 90 students appeared for the VIII semester in Biomedical Engineering, the number of ranks to be awarded for Biomedical Engineering will be 09.</p> <p>5) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place value is greater than or equal to 5.</p>
<b>17 OB 13.3</b>	Ranks are awarded based on the merit of the students as determined CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.



<b>17OB 14.0</b>	<b>Transfers of Students</b>
<b>17OB 14.1</b>	<p>Transfer of students from one college to another college within Karnataka state shall be permitted only at the beginning of third, fifth, and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges and subject to the prior approval of the University.</p> <p>(a) Transfer of students from one non - autonomous to another non – autonomous college affiliated to VTU is permitted with the approval of the Registrar, VTU subject to the provision 17OB11.2.</p> <p>The students seeking transfer shall have to,</p> <ol style="list-style-type: none"> <li>(i) Obtain No Objection certificate for admission from the University and from both the colleges before the commencement of term as notified by VTU.</li> <li>(ii) Complete the programme subject to the provision 17OB1.5.</li> </ol> <p>(b) Transfer of students from an autonomous to non – autonomous college affiliated to VTU is permitted with the approval of the Registrar, VTU provided the candidates have passed in all the Courses of the previous semesters.</p> <p>The students seeking transfer shall have to,</p> <ol style="list-style-type: none"> <li>(i) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notified by VTU.</li> <li>(ii) Complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect.</li> </ol> <p>Additional Course/s shall not be considered for the Eligibility criterion prescribed for promotion, Class, calculation of SGPA and CGPA. However, a pass in the Additional Courses, if any, is mandatory before the completion of Degree.</p> <ol style="list-style-type: none"> <li>iii) Complete the programme subject to the provision 17OB1.5.</li> </ol> <p>(c) In the case of students from Universities other than VTU, the students must have passed in all the Courses of I and II semesters for admission to III semester and all the Courses of I to IV semesters for admission to V semester and all the Courses of I to VI semesters for admission to VII semester.</p> <p>The students seeking admission from other Universities to VTU shall have to,</p> <ol style="list-style-type: none"> <li>i) Apply for establishment of equivalence with prescribed fees as notified by the VTU and obtain No Objection certificate for admission from the University before commencement of term as notified by VTU.</li> <li>ii) Produce No Objection certificate for admission from both the colleges before commencement of term as notified by VTU.</li> <li>iii) Complete additional Course/s, if any, as per the decision of concerned Board of Studies and approval of Dean, Faculty of Engineering, on establishing equivalence between two schemes. A Grade card shall be issued to that effect.</li> </ol> <p>Additional Course/s shall not be considered for the eligibility criterion prescribed for promotion, Class, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.</p> <ol style="list-style-type: none"> <li>(ii) Complete the programme subject to the provision 17OB1.5.</li> </ol>
<b>17 OB 14.2</b>	Transfer of students within the College from one branch to another branch at the start of III semester shall be permitted with the approval of the Registrar, VTU subject to the provisions made by the Government of Karnataka and AICTE in this behalf.
<b>17OB 14.3</b>	The University may prescribe fee for administrative purpose, which shall be notified from time to time, for transfer from one college to another (Change of College) or one branch to another branch (change of branch within the college).

<b>17 OB 15.0</b>	<b>Applicability and Power to Modify</b>
<b>17 OB15.1</b>	The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be a binding on all concerned.
<b>17 OB15.2</b>	<ul style="list-style-type: none"><li>i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.</li><li>ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.</li></ul>



**Visvesvaraya Technological University, Belagavi**  
**Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech)**  
**Under Choice Based Credit System (CBCS)**  
(w.e.f. the academic year 2017 – 18)

**Annexure -1**

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**  
**Scheme of Teaching and Examination 2017-2018**  
**Choice Based Credit System (CBCS)**

**I SEMESTER B.E./B.Tech. (PHYSICS GROUP)**

Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17PHY12	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4
3	17CIV13	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4
4	17EME14	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4
5	17ELE15	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4
6	17WSL16	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01Hour Instruction 02Hour Practical		03	60	40	100	2
7	17PHYL17	Engineering Physics Laboratory	Physics	Basic Science	01Hour Instruction 02Hour Practical		03	60	40	100	2
8	17ENG18	Language – English (Audit Course)	Humanities	--	01	--	--	--	--	--	--
<b>TOTAL</b>					<b>Theory:21 hours Practical: 06 hours</b>		<b>21</b>	<b>420</b>	<b>280</b>	<b>700</b>	<b>24</b>

**II SEMESTER B.E./B.Tech. (CHEMISTRY GROUP)**

1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4
2	17CHE22	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4
3	17PCD23	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4
4	17CED24	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour Instruction 04-Hour Practice		03	60	40	100	4
5	17ELN25	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04	--	03	60	40	100	4
6	17CPL26	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2
7	17CHEL27	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	2
8	17CIV28	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01Tutorial		--	30	20	50	--
<b>TOTAL</b>					<b>Theory:21 hours Practical: 08 hours</b>		<b>21</b>	<b>450</b>	<b>300</b>	<b>750</b>	<b>24</b>

**Visvesvaraya Technological University, Belagavi**  
**Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E./B.Tech.)**  
**Under Choice Based Credit System (CBCS)**  
(w.e.f. academic year 2017 – 18)

**Annexure -1**

<b>VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI</b>												
<b>Scheme of Teaching and Examination 2017-2018</b>												
<b>Choice Based Credit System (CBCS)</b>												
<b>I SEMESTER B.E./B.Tech (CHEMISTRY GROUP)</b>												
Sl. No	Course Code	Course Title	Teaching Department	Board	Teaching Hours /Week		Examination				Credits	
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks		
1	17MAT11	Engineering Mathematics -I	Mathematics	Basic Science	04	--	03	60	40	100	4	
2	17PHY12	Engineering Chemistry	Chemistry	Basic Science	04	--	03	60	40	100	4	
3	17PCD13	Programming in C and Data Structures	Any Engineering Department	Computer Science and Engineering	04	--	03	60	40	100	4	
4	17CED14	Computer Aided Engineering Drawing	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	02Hour Instruction 04Hour Practice		03	60	40	100	4	
5	17ELN15	Basic Electronics	ECE/EEE/TC/E and I.	E and C Engineering	04	--	03	60	40	100	4	
6	17CPL16	Computer Programming Laboratory	Any Engineering Department	Computer Science and Engineering	01Hour Tutorial 02Hour Practical		03	60	40	100	2	
7	17CHEL17	Engineering Chemistry Laboratory	Chemistry	Basic Science	01Hour Tutorial 02Hour Practical		03	60	40	100	2	
8	17CIV18	Environmental Studies (Audit Course)	Civil/ Environmental Engineering	Civil Engineering	01HourTutorial		--	30	20	50	--	
<b>TOTAL</b>					<b>Theory:21 hours Practical: 08 hours</b>		<b>21</b>	<b>450</b>	<b>300</b>	<b>750</b>	<b>24</b>	
<b>II SEMESTER B.E./B.Tech (PHYSICS GROUP)</b>												
1	17MAT21	Engineering Mathematics -II	Mathematics	Basic Science	04	--	03	60	40	100	4	
2	17PHY22	Engineering Physics	Physics	Basic Science	04	--	03	60	40	100	4	
3	17CIV23	Elements of Civil Engineering and Mechanics	Civil Engineering	Civil Engineering	04	--	03	60	40	100	4	
4	17EME24	Elements of Mechanical Engineering	Mechanical Engineering	Mechanical Engineering	04	--	03	60	40	100	4	
5	17ELE25	Basic Electrical Engineering	E and E Engineering	E and E Engineering	04	--	03	60	40	100	4	
6	17WSL26	Workshop Practice	ME, Auto, IP, IEM, Mfg Engineering	Mechanical Engineering	01-Hour Instruction 02-Hour Practical		03	60	40	100	2	
7	17PHYL27	Engineering Physics Laboratory	Physics	Basic Science	01-Hour Instruction 02-Hour Practical		03	60	40	100	2	
8	17ENG28	Language – English (Audit Course)	Humanities	--	01		--	--	--	--	--	
<b>TOTAL</b>					<b>Theory:21 hours Practical: 06 hours</b>		<b>21</b>	<b>420</b>	<b>280</b>	<b>700</b>	<b>24</b>	

**Visvesvaraya Technological University, Belagavi**  
**Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech.)**  
**Under Choice Based Credit System (CBCS)**  
(w.e.f. academic year 2017 – 18)

**Annexure -1**

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**

Scheme of Teaching and Examination 2017-2018  
Choice Based Credit System (CBCS)

B.E./B.Tech \_\_\_\_\_

**III SEMESTER**

Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Core Course	Engineering Mathematics-III		04	--	03	60	40	100	4
2	17XX32	Core Course			04	--	03	60	40	100	4
3	17XX33	Core Course			04	--	03	60	40	100	4
4	17XX34	Core Course			04	--	03	60	40	100	4
5	17XX35	Core Course			04	--	03	60	40	100	4
6	17XX36	Foundation Course			03	--	03	60	40	100	3
7	17XXL37	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXL38	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Core Course	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
<b>TOTAL</b>					<b>Theory:24hours Practical: 06 hours</b>		<b>25</b>	<b>510</b>	<b>340</b>	<b>850</b>	<b>28</b>

**1. Core Course:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

**2. Foundation Course:** The courses based upon the content that leads to Knowledge enhancement.

**3. Kannada/Constitution of India, Professional Ethics and Human Rights:** 50 % of the programs of the Institution have teach Kannada/ Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

**4. Audit Course:**

(i) All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I which is 04 contact hours per week.

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Sc candidates)

**Visvesvaraya Technological University, Belagavi**  
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Scheme of Teaching and Examination 2017-2018  
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**IV SEMESTER**

Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Core Course	Engineering Mathematics-IV		04	--	03	60	40	100	4
2	17XX42	Core Course			04	--	03	60	40	100	4
3	17XX43	Core Course			04	--	03	60	40	100	4
4	17XX44	Core Course			04	--	03	60	40	100	4
5	17XX45	Core Course			04	--	03	60	40	100	4
6	17XX46	Foundation Course			03	--	03	60	40	100	3
7	17XXL47	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXL48	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
9	17KL/CPH39/49	Core Course	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
<b>TOTAL</b>					<b>Theory:24hours Practical: 06 hours</b>		<b>25</b>	<b>510</b>	<b>340</b>	<b>850</b>	<b>28</b>

**1. Core Course:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

**2. Foundation Course:** The courses based upon the content that leads to Knowledge enhancement.

**3. Kannada/Constitution of India, Professional Ethics and Human Rights:** 50 % of the programs of the Institution have teach Kannada/ Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

**4. Audit Course:**

(i) All lateral entry students (except B. Sc candidates) have to register for Additional Mathematics – II which is 04 contact hours per week.

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B. Sc candidates)

**Visvesvaraya Technological University, Belagavi**  
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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**

Scheme of Teaching and Examination 2017-2018  
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B.E./B.Tech \_\_\_\_\_

**V SEMESTER**

Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17XX51	Core Course	Management and Entrepreneurship <b>Excluding CSE, ISE and EV Programs.</b> (The course must be related to Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement).		04	--	03	60	40	100	4
2	17XX52	Core Course			04	--	03	60	40	100	4
3	17XX53	Core Course			04	--	03	60	40	100	4
4	17XX54	Core Course			04	--	03	60	40	100	4
5	17XX55X	Professional Elective			03	--	03	60	40	100	3
6	17XX56Y	Open Elective			03	--	03	60	40	100	3
7	17XXL57	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXL58	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
<b>TOTAL</b>					<b>Theory:22hours Practical: 06 hours</b>		<b>24</b>	<b>480</b>	<b>320</b>	<b>800</b>	<b>26</b>

**Electives**

Professional Elective		Open Elective <sup>***</sup> Offered by the Department of _____	
Courses under Code 17XX55X	Course Title	Courses under Code 17XX56Y	Course Title
17XX551		17XX561	
17XX552		17XX562	
17XX553		17XX563	
17XX554		17XX564	

\*\*\* Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed provided;

- The candidate has pre – requisite knowledge.
- The candidate has not studied during I and II year of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters.

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

**1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

**2. Professional Elective:** Electives relevant to chosen specialization/ branch.

**3. Open Elective:** Electives from other technical and/ or emerging subject areas.

**Visvesvaraya Technological University, Belagavi**  
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Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)

B.E./B.Tech \_\_\_\_\_

**VI SEMESTER**

Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17XX61	Core Course	Management and Entrepreneurship <b>Excluding CSE, ISE and EV Programs.</b> (The course must be related to Management and Entrepreneurship. However, the title and syllabus content can be as per the programme requirement).		04	--	03	60	40	100	4
2	17XX62	Core Course			04	--	03	60	40	100	4
3	17XX63	Core Course			04	--	03	60	40	100	4
4	17XX64	Core Course			04	--	03	60	40	100	4
5	17XX65X	Professional Elective			03	--	03	60	40	100	3
6	17XX66Y	Open Elective			03	--	03	60	40	100	3
7	17XXL67	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXL68	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
<b>TOTAL</b>					<b>Theory:22hours Practical: 06 hours</b>		<b>24</b>	<b>480</b>	<b>320</b>	<b>800</b>	<b>26</b>

**Electives**

Professional Elective		Open Elective *** Offered by the Department of _____	
Courses under Code 17XX65X	Course Title	Courses under Code 17XX66Y	Course Title
17XX651		17XX661	
17XX652		17XX662	
17XX653		17XX663	
17XX654		17XX664	

\*\*\* Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed provided;

- The candidate has pre – requisite knowledge.
- The candidate has not studied during I and II year of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters.

Registration to electives shall be documented under the guidance of Programme Coordinator and Adviser.

**1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

**2. Professional Elective:** Electives relevant to chosen specialization/ branch.

**3. Open Elective:** Electives from other technical and/ or emerging subject areas.



**Visvesvaraya Technological University, Belagavi**  
**Regulations Governing the Degree of Bachelor of Engineering/ Technology (B.E/B.Tech.)**  
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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**

Scheme of Teaching and Examination 2017-2018  
Choice Based Credit System (CBCS)

B.E./B.Tech \_\_\_\_\_

**VII SEMESTER**

Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17XX71	Core Course			04	--	03	60	40	100	4
2	17XX72	Core Course			04	--	03	60	40	100	4
3	17XX73	Core Course			04	--	03	60	40	100	4
4	17XX74 X	Professional Elective			03	--	03	60	40	100	3
5	17XX75Y	Professional Elective			03	--	03	60	40	100	3
6	17XXL76	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17XXL77	Laboratory			01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17XXP78	Core Course	Project Phase – I and Project seminar			03	--	--	100	100	2
<b>TOTAL</b>					<b>Theory:18 hours Practical and Project: 09 hours</b>		<b>21</b>	<b>420</b>	<b>380</b>	<b>800</b>	<b>24</b>

**Electives**

**Professional Elective**

**Professional Elective**

Courses under Code 17XX74X	Course Title	Courses under Code 17XX75Y	Course Title
17XX741		17XX751	
17XX742		17XX752	
17XX743		17XX753	
17XX744		17XX754	

**1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

**2. Professional Elective:** Electives relevant to chosen specialization/ branch.

**3. Project Phase – I and Project seminar:** Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and seminar presentation skill.

**Visvesvaraya Technological University, Belagavi**  
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**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI**

Scheme of Teaching and Examination 2017-2018  
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B.E./B.Tech \_\_\_\_\_

**VIII SEMESTER**

Sl. No	Course Code	Course	Course Title	Teaching Department	Teaching Hours /Week		Examination				Credits
					Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17XX81	Core Course			04	--	03	60	40	100	4
2	17XX82	Core Course			04	--	03	60	40	100	4
3	17XX83X	Professional Elective			03	--	03	60	40	100	3
4	17XX84	Core Course	Internship/ Professional Practice		Working hours of the place of Internship		03	50	50	100	2
5	17XXP85	Core Course	Project work Phase -II		--	06	03	100	100	200	6
6	17XXS86	Core Course	Technical Seminar		--	04	--	--	100	100	1
<b>TOTAL</b>					<b>Theory:11 hours Project and Seminar: 10 hours</b>		<b>15</b>	<b>390</b>	<b>310</b>	<b>700</b>	<b>20</b>

**Professional Electives**

Courses under Code 17XX83X	Course Title
17XX831	
17XX832	
17XX833	
17XX834	

**1. Core subject:** This is the course, which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

**2. Professional Elective:** Electives relevant to chosen specialization/ branch.

**3. Internship/ Professional Practice:** To be completed between the V and VI semester vacation and/or VI and VII semester vacation period.





**Visvesvaraya Technological University**  
"Jnana Sangama", Belagavi - 590 018, Karnataka State

Prof. A S. Deshpande B.E. M.Tech., Ph.D.  
REGISTRAR

Phone : (0831) 2498100  
Fax : (0831) 2405467

Ref VTU/BGM/Aca-OS/Gen-Cirs/2019-20/ 3013

Date : 01 AUG 2019

**NOTIFICATION**

**Sub: Regulations Governing the Degree of B.E./ B.Tech.  
under OBE and CBCS (Revised-2018) - reg...**

**Ref: Executive Council Resolution. No. 2.2.1 dt: 30<sup>th</sup> May, 2019**

Pursuant to the aforesaid Executive Council Resolution, the "Regulations Governing the Degree of B.E./ B.Tech. under outcome Based Education and Choice Based Credit System - (Revised - 2018) " are hereby notified.

These Regulations are applicable for the following students:

1. Admitted to I semester/I year from the academic year 2018-19 (i.e. USN XXX18XXXXX)
2. Admitted to III semester/II year from the academic year 2019-20 (i.e. USN XXX19XX4XX)

You are hereby directed to bring the same to the notice of all the concerned and to follow them scrupulously.

The previous regulations in this regard (published on VTU website and printed in syllabus books are treated as null and void.

**Encl: as above**

**BY ORDER**

01.08.2019  
**REGISTRAR**

**To,**  
**The of Principals of All Engineering Colleges under the ambit of VTU, Belagavi**

**Copy to:**

1. Hon'ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi for kind information
2. The Registrar (Evaluation), VTU, Belagavi
3. The Regional Directors (I/C) of all the Regional Offices of VTU for circulation
4. The Computer Network Centre, VTU, Belagavi- to upload on VTU website
5. PS to Registrar, VTU, Belagavi
6. All the concerned Special Officer and Case-workers of Academic Section, VTU, Belagavi

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)  
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)  
Effective from the Academic Year 2018 – 19**

**Definitions of Keywords**

The following are the definitions/descriptions that have been followed for the different terms used in the Regulations of B.E./B.Tech. Programmes:

- 1) **Programme:** Is an educational Programme in a particular stream/ branch of Engineering/branch of specialization leading to award of the Degree. It involves events/activities, comprising of lectures/tutorials/laboratory work/field work, outreach activities/project work/vocational training/viva voce/ seminars/ internship/assignments/ presentations/ self-study etc., or a combination of some of these.
- 2) **Branch:** Means Specialization or discipline of B.E./B.Tech. Degree Programme, like Civil Engineering, Mechanical Engineering, Textile Engineering, etc.
- 3) **Semester:** Refers to one of the two sessions of an academic year (vide: serial number 4), each session being of sixteen weeks duration (with working days greater than or equal to ninety). The odd and even semesters shall be as per the University academic calendar.
- 4) **Academic Year:** Refers to the sessions of two consecutive semesters (odd followed by an even) including periods of vacation.
- 5) **Course:** Refers to usually referred to as 'papers' and is a component of a Programme. All Courses need not carry the same weight. The Courses should define learning objectives and learning outcomes. A Course may be designed to comprise lectures/ tutorials/ laboratory work/ field work/ outreach activities/project work/ vocational training/ viva voce/ seminars/ term papers/assignments/ presentations/ self-study etc., or a combination of some of these.
- 6) **Credit:** Refers to a unit by which the Course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of lecture or two hours of laboratory/practical Courses/ tutorials/ fieldwork per week etc.
- 7) **Audit Courses:** Means the Knowledge/ Skill enhancing Courses without the benefit of a grade or credit for a Course.
- 8) **Choice Based Credit System (CBCS):** Refers to customizing the Course work, through Core, Elective and soft skill Courses, to provide necessary support for the students to achieve their goals.
- 9) **Course Registration:** Refers to formal registration for the Courses of a semester (Credits) by every student under the supervision of a Faculty Advisor (also called Mentor, Counsellor etc.) in each semester for the Institution to maintain proper record.
- 10) **Course Evaluation:** Means Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE) to constitute the major evaluations prescribed for each Course. CIE and SEE to carry 40 % and 60 % respectively, to enable each Course to be evaluated for 100 marks, irrespective of its Credits.
- 11) **Continuous Internal Evaluation (CIE):** Refers to evaluation of students' achievement in the learning process. CIE shall be by the Course Instructor and includes tests, homework, problem solving, group discussion, quiz, mini-project and seminar throughout the semester, with a weightage for the different components being fixed by the University.
- 12) **Semester End Examinations (SEE):** Refers to the examinations conducted by the University covering the entire Course Syllabus. For this purpose, Syllabi to be modularized and SEE questions to be set from each module, with a choice confined to the concerned module only. SEE is also termed as University examination.
- 13) **First Attempt:** Refers to a student who has completed all formalities and has become eligible to attend the SEE and has attended at least one head of passing, such attempt shall be considered as first attempt.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)  
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)  
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- 14) **Credit Based System (CBS):** Refers to quantification of Course work, after a student completes teaching – learning process, followed by passing in both CIE and SEE. Under CBS, the requirement for awarding degree is prescribed in terms of total number of credits to be earned by the students.
- 15) **Credit Representation:** Refers to the Credit Values for different academic activities considered, as per the Table.1 Credits for seminar, project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examinations.
- 16) **Letter Grade:**

Table 1: Credit Values				
Theory/Lectures (L) (hours/week/Semester)	Tutorials (T) (hours/week/Semester)	Laboratory/Practical (P) (hours/week/Semester)	Credits (L:T:P)	Total Credits
4	0	0	4:0:0	4
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
2	2	2	2:1:1	4
0	0	6	0:0:3	3

**NOTE:** Activities like, practical training, study tour and participation in Guest lectures not to carry Credits.

It is an index of the performance of students in a said Course. Grades are denoted by letters S, A, B, C, D, E and F.

- 17) **Grading:** Grade refers to qualitative measure of achievement of a student in each Course, based on the percentage of marks secured in CIE and SEE. Grading is done by Absolute Grading [Refer: 18 OB 6.0]. The rubrics attached to letter grades are as follows: S – Outstanding, A – Excellent, B – Very Good, C – Good, D – Above Average, E – Average and F – Fail.
- 18) **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale as under.

Letter Grade and corresponding Grade Points on a typical 10 – Point scale							
Letter Grade	S	A	B	C	D	E	F
Grade Point	10	09	08	07	06	04	00

- 19) **Passing Standards:** Refers to passing a Course only when getting GP greater than or equal to 04 (as per serial number 18).
- 20) **Credit Point:** Is the product of GP and number of credits for a Course i.e.,  
Credit points (CrP) = GP × Credits for the Course.
- 21) **Semester Grade Point Average (SGPA):** Refers to the measure of academic performance of student/s in a semester. [Refer:18OB6.2]
- 22) **Cumulative Grade Point Average (CGPA):** Is a measure of overall cumulative performance of a student over all semesters. [Refer:18OB6.2]
- 23) **Grade Card:** Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester end examination. The grade card will display the Programme details (Course code, title, number of credits, grades secured) along with SGPA of that semester and CGPA earned till that semester.
- 24) **University:** Visvesvaraya Technological University (VTU), Belagavi.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)  
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)  
Effective from the Academic Year 2018 – 19**

<b>18OB1.0</b>	<b>Title, Duration and Credits of the Programme of Study.</b>
<b>18OB1.1</b>	The Programme of study shall be called the degree of Bachelor of Engineering /Bachelor of Technology, abbreviated as B.E./B.Tech.
<b>18OB1.2</b>	<p>(a) The Programme to which students are admitted to First semester of B.E./B.Tech. Programme shall be of four academic year duration divided into eight semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester.</p> <p>(b) The Programme to which students are admitted to third semester of B.E./B.Tech. Programme under lateral entry shall be of three academic year duration, divided into six semesters. The actual Teaching and Learning days shall be at least 90 working days in a semester.</p> <p>(c) The Programme (conducted during evening) to which students are admitted to third semester of B.E./B.Tech. Programme under lateral entry scheme shall be of three academic year duration, divided into six semesters. The actual Teaching and Learning days shall be for at least 90 working days in a semester. The deficit contact hours of the Programme, conducted during evening on all working days, shall be compensated on all Sundays (except on general holidays).</p>
<b>18OB1.3</b>	The calendar of events in respect of the Programme of study shall be notified by the University in advance.
<b>18OB1.4</b>	<p><b>Maximum Duration for Programme Completion:</b></p> <p>(a) <b>In case of students admitted to First semester of First year B.E./B.Tech. Programme</b></p> <p>(i) Students admitted to First year first semester B.E./B.Tech. shall complete the Programme within a period of eight academic years from the date of first admission, failing which they have to discontinue the Programme.</p> <p>(ii) A student who has not obtained eligibility to third semester even after three academic years from the date of first admission to first semester shall discontinue the Programme or get readmitted to first semester of first year B.E./B.Tech. with a revised University Seat Number having the same year of admission but serial number of the student starting with SIX hundred series (6XX).</p> <p>(iii) A student who has joined first year (to I or II semester) as a repeater and has not obtained eligibility to third semester even after three academic years from the date of readmission to first year shall discontinue the Programme or get readmitted to first semester of first year B.E./B.Tech., subject to the provision of 18OB1.4 (a)( i), with a revised University Seat Number having the same year of admission but serial number of the student starting with SIX hundred series (6XX).</p> <p>(iv) A student, who has been readmitted to First year [as per 18OB1.4 (a) (ii)and (iii)], does not get eligibility to third semester even after two academic years from the date of readmission, he/she shall discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.</p> <p>(v) A student who gets admitted to III semester from I year in three or less than three years shall complete the Programme, with or without break, within a period of eight academic years from the date of first admission, failing which they have to discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.</p> <p>(b) <b>In case of lateral entry students admitted to Third semester of Second year B.E./B.Tech. Programme.</b></p> <p>(i) Students admitted to second year third semester B.E./ B.Tech. shall complete the Programme within a period of six academic years from the date of first admission, failing which they have to discontinue the Programme.</p> <p>(ii) A student who has not obtained eligibility to fifth semester even after two academic years from the date of first admission to third semester shall discontinue the Programme or get readmitted to third semester of second year B.E./B.Tech. with a revised University Seat Number having the same year of admission but serial number of the student starting with SEVEN hundred series (7XX).</p> <p>(iii) A student who has joined second year (to III or IV semester) as a repeater and has not</p>

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	<p>obtained eligibility to fifth semester even after three academic years from the date of readmission to second year shall discontinue the Programme or get readmitted to third semester of second year B.E./B.Tech., subject to the provision of 18OB1.4 (b) ( i), with a revised University Seat Number having the same year of admission but serial number of the student starting with SEVEN hundred series (7XX).</p> <p>(iv) A student, who has been readmitted to second year [as per 18OB1.4 (b) (ii) and (iii)], does not get eligibility to fifth semester even after two academic years from the date of readmission to second year, he/she shall discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.</p> <p>(v) A student who gets admitted to V semester from II year in two or less than two years shall complete the Programme, with or without break, within a period of six academic years from the date of first admission, failing which they have to discontinue the Programme or seek fresh admission following the prevailing admission procedure at that time.</p>
<b>18OB1.5</b>	<p><b>Prescribed Number of Credits for the Programme [to be read along with 18OB12.2]:</b></p> <p>(a) The number of credits to be completed by students admitted to first semester of B.E./B.Tech. Programme shall be 175.</p> <p>(b) The number of credits to be completed by students admitted to third semester of B.E./B.Tech. Programme under lateral entry scheme shall be 135.</p> <p>(c) A student shall be eligible to get Undergraduate degree with Honours, if he/she earns additional 20 credits, as per VTU norms issued from time to time regarding the earning of additional credits. [To be read along with Regulations Governing the award of Honours' in B.E./B.Tech. Degree Programmes.]</p>
<b>18OB1.6</b>	<p><b>(a) Definition of Credits:</b></p> <p>(a.1) 1 hour Lecture (L) per week per semester =1 Credit</p> <p>(a.2) 2 hours Tutorial (T) per week per semester =1 Credit</p> <p>(a.3) 2 hours Practical/Laboratory/Drawing (P) per week per semester =1 Credit.</p> <p>(a.4) Four credit theory courses shall be designed for 50 hours of Teaching – Learning process.</p> <p>(a.5) Three credit theory courses shall be designed for 40 hours of Teaching – Learning process.</p>
<b>18OB2.0</b>	<p><b>Eligibility for Admission to B.E./B.Tech. Programmes (As per the Government orders issued from time to time)</b></p>
<b>18OB2.1</b>	<p><b>(a) Day Engineering College (Eligibility: Candidates who have Passed Second PUC/ Twelfth standard)</b></p> <p>(i) Passed Second PUC/12<sup>th</sup> standard/Equivalent examination with English as one of the Languages and obtained a minimum of 45 % of Marks in aggregate in Physics and Mathematics along with Chemistry/Bio-Technology/Biology/Electronics/Computer. 40 % for SC, ST, Category – 1, 2A, 2B, 3A and 3B category candidates of Karnataka only.</p> <p>(ii) Those students, who have passed a qualifying examination other than the PUC II examination of the Pre-University Education Board of Karnataka, have to obtain eligibility certificate for seeking admission to B.E./B.Tech. Degree Programme from Visvesvaraya Technological University, Belagavi.</p> <p><b>(b) Day Engineering College (Eligibility: Candidates who have Passed 3 year Diploma)</b></p> <p>(i) A candidate who has passed any Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (Fifth and Sixth semester) diploma examination (qualified examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of Engineering (as notified by the Government of Karnataka for admission to 3rd semester / 2nd year B.E./B.Tech.) and 40 % of marks in qualified examination in case of SC, ST and Backward Classes of Karnataka candidates.</p> <p>(ii) Those candidates who have completed Engineering Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate issued from the Director of Technical Education, Karnataka.</p>

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	<p><b>(c) Evening Engineering College (Eligibility: Candidates who have Passed 3 year Diploma):</b></p> <p>(i) A candidate who has passed any Engineering diploma examination or equivalent examination and obtained an aggregate minimum of 45 % marks taken together in all the subjects of the final year (Fifth and Sixth semesters) diploma examination (qualified examination) is eligible for admission to B.E./B.Tech. Programmes, in respective branch of Engineering (as notified by the Government of Karnataka for admission to 3rd semester / 2nd year B.E./B.Tech.) and 40 % of marks in qualified examination in case SC, ST and Backward Classes of Karnataka candidates.</p> <p>In addition to this a candidate after passing the diploma, must have minimum of Two years full-time work experience as on 1<sup>st</sup> September of the year of admission, in a registered firm/Company/Industry/Educational Institution /Government/Autonomous Organizations in the branch of Engineering/Technology, in which the candidates holds a diploma and in which admission is sought by him/her.</p> <p>Professional experience refers to the experience earned as an employee on regular basis in Government, Government Undertaking, Public Sector Undertaking, Corporation or Private company registered under the Directorate of Industries and Commerce or the Directorate of Small Scale Industries or Government recognized Institutions as technical staff. Provided that the period of apprenticeship undergone shall also be treated as professional experience , if sponsored by the Board of Apprenticeship Training, Southern Region, Chennai or by Government, Government Undertakings and Public Sector Undertakings.</p> <p><b>Note:</b> In case where genuineness of the employment certificate is questionable, such candidates have to produce supportive documents specifying the registration details of the Industry/Company (e.g., SSI Registration) and or identity cards provided to them together with latest salary certificate and provident fund certificate. However, the employer has to fill up the NOC duly signed by the company authority.</p> <p><b>(d) Day Engineering College (Eligibility: Candidates who have Passed B.Sc Degree)</b></p> <p>Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject.</p>
18OB2.2	<p>With regard to the qualification earned from foreign countries, Equivalence certificate from the University/ Association of Indian Universities is mandatory for admission to B.E./B.Tech. Programmes. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the University Equivalence Committee shall be the final in establishing the eligibility of the student.</p>
18OB3.0	<p><b>Courses</b></p>
18OB3.1	<p>There shall be the following types of Courses:</p> <p>(a) Humanities, Social Sciences and Management Courses (HSMC): These are mandatory for all disciplines.</p> <p>(b) Basic Sciences Courses (BSC): Physics, Chemistry and Mathematics. These are mandatory for all disciplines.</p> <p>(c) Engineering Science Courses (ESC): Materials, Workshop, Drawing, and Basics of Electrical/ Electronics/ Instrumentation/ Civil/ Mechanical/ Computer Engineering etc. These are mandatory for all disciplines.</p> <p>(d) Professional Core Courses (PCC) – Core: Are the professional Core Courses, relevant to the chosen specialization/ branch. The core Courses are to be compulsorily studied by students and are mandatory to complete them to fulfill the requirements of a Programme.</p> <p>(e) Professional Elective Courses (PEC): Are the professional Electives, relevant to the chosen specialization / branch and can be chosen from the pool of papers. It shall be supportive to the discipline providing extended scope/enabling an exposure to some other discipline /domain and nurturing student proficiency skills.</p> <p>(f) Open Elective Courses (OEC): Are the Elective Courses from other technical areas and/ or from emerging fields.</p> <p>(g) Project Work (PROJ): Mini project and Main Project. Carried out at the Institution or elsewhere without affecting with the regular classwork.</p>

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	<p>(h) Seminar: Deliverable at the Institution under the supervision of a Faculty.</p> <p>(i) Internship: Preferably at an industry/R and D organization/IT company/Government organization or elsewhere of significant repute for a specified period as mentioned in Scheme of Teaching and Examinations.</p> <p>(j) Mandatory Courses (MC): These Courses are mandatory, without the benefit of a grade or credit, for students admitted to B.E./B.Tech. Programme. A pass in each mandatory Course is required to qualify for the award of degree.</p>
18OB3.2	<p>The minimum number of students registered to any Elective Course offered by the Departments shall be not less than ten.</p> <p>However, the above condition shall not be applicable to Programmes having class strength of less than 10. In such cases, only one elective course shall be offered.</p>
18OB3.3	<p>A student shall exercise his option in respect of Elective Course/s and registered for the same at the beginning of the concerned semester. The student may be permitted to opt for a change of Elective Course/s within 15 days from the date of commencement of the semester as per the calendar of the University.</p>
18OB3.4	<p><b>Course Registration:</b></p> <p>In order to maintain proper academic record of each student at the Institution, every student shall register for the Courses of a semester (Credits) under the supervision of a Faculty Advisor (also called Mentor, Counselor, etc.,) in each semester.</p>
18OB4.0	<p><b>Internship/Professional Practice</b></p>
18OB4.1	<p>Internship / Professional Practice</p> <p>The Internship shall be completed during the period specified in the Scheme of Teaching and Examinations.</p> <ol style="list-style-type: none"> <li>1) The internship shall preferably be at an industry/R and D organization/IT company/ Government organization of significant repute for a specified period as mentioned in Scheme of Teaching and Examinations.</li> <li>2) The Department/college shall nominate staff member/s to facilitate, Guide and supervise students under internship.</li> <li>3) The students shall report progress of the internship to the Guide in regular intervals and seek his/her advice. The Guide shall maintain the progress record of the candidates undergoing internship.</li> <li>4) After the completion of Internship, students shall submit a report with completion certificate and attendance certificate to the Head of the Department with the approval of both internal and external Guides.</li> <li>5) There shall be 40 marks for CIE and 60 marks for SEE. The minimum requirement of CIE marks shall be 50% of the maximum marks.</li> <li>6) The internal Guide shall be the internal examiner for the SEE.</li> <li>7) The external Guide for Internship shall be the external examiner for SEE. Examination for internship shall be conducted at the college and the date shall be fixed in consultation with the external Guide. The Examiners shall jointly award the SEE marks. [To be read along with 18OB8.9 (f)]</li> <li>8) In case the external Guide expresses his inability to conduct the Examination, the Principal /Chief Superintendent of the Institute shall appoint a senior faculty of the Department to conduct the Examination along with the internal Guide.</li> <li>9) Non-availability of Internal guide due to inevitable situations for the conduct of SEE, the Principal /Chief Superintendent of respective institute shall appoint a senior faculty of the Department to conduct the Examination.</li> <li>10) The students are permitted to carry out the internship anywhere in India or abroad. The University will not provide any kind of financial assistance to any student for carrying out the Internship.</li> </ol>
18OB 5.0	<p><b>Technical Seminar and Project</b></p>
18OB 5.1	<p><b>Technical Seminar:</b> Technical Seminar is one of the head of passing.</p> <ol style="list-style-type: none"> <li>(i) Each candidate shall deliver Technical seminar as per the Scheme of Teaching and Examinations on the topic chosen from the relevant field.</li> <li>(ii) The Head of the Department shall make arrangements for the conduct of seminars</li> </ol>

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	through concerned faculty members of the Department. The committee, constituted for the purpose by the Head of the Department, shall award the CIE marks for the seminar. The committee shall consist of two senior faculty members of the Department and the senior most acting as the Chairperson. [To be read along with 18OB8.2 (e)]																																							
<b>18OB 5.2</b>	<b>Project: Project (Mini and Main) is one of the head of passing.</b> Mini Project Work and Main Project Work shall preferably be batch wise, the strength of each batch shall not exceed a maximum of four students. [To be read along with 18OB 8.2 (f), (g) 18OB8.9 (f) and the details mentioned in Scheme of Teaching and Examinations.]																																							
<b>18OB 5.3</b>	Examinations in Mini Project Work and Main Project Work shall be conducted batch-wise.																																							
<b>18OB 6.0</b>	<b>Computation of SGPA and CGPA</b>																																							
<b>18OB 6.1</b>	<p>(i) The University adopts absolute grading system wherein the marks are converted to grades, and every semester results shall be declared in terms of Semester Grade Point Average (SGPA) considering all the courses appeared in that Semester End Examinations including backlog course/s/arrear papers (refers to courses other than the current semester courses that have not yet been completed) and Cumulative Grade Point Average (CGPA). The CGPA will be calculated for every semester, except for the first semester.</p> <p>(ii) The grading system with the letter grades and the assigned range of marks under absolute grading system shall be as given below:</p> <table border="1"> <thead> <tr> <th>Level</th> <th>Outstanding</th> <th>Excellent</th> <th>Very Good</th> <th>Good</th> <th>Above Average</th> <th>Average</th> <th>Fail</th> </tr> </thead> <tbody> <tr> <td>Letter Grade</td> <td>S</td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> <td>E</td> <td>F</td> </tr> <tr> <td>Grade Points</td> <td>10</td> <td>9</td> <td>8</td> <td>7</td> <td>6</td> <td>4</td> <td>00</td> </tr> <tr> <td rowspan="2">Percentage of Marks Scored in a Course</td> <td>≥ 90</td> <td>&lt;90 ≥80</td> <td>&lt; 80 ≥70</td> <td>&lt; 70 ≥60</td> <td>&lt; 60 ≥ 45</td> <td>&lt; 45 ≥40</td> <td>&lt; 40</td> </tr> <tr> <td>(90 -100)</td> <td>(80 - 89)</td> <td>(70 - 79)</td> <td>(60- 69)</td> <td>(45 - 59)</td> <td>(40 - 44)</td> <td>(0 - 39)</td> </tr> </tbody> </table> <p>(iii) A student obtaining Grade F in a Course shall be considered fail and is required to reappear in the subsequent SEE. Whatever the letter grade secured by the student during his /her reappearance shall be awarded. The number of attempts taken to clear Course/s shall be indicated in the grade card.</p>	Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail	Letter Grade	S	A	B	C	D	E	F	Grade Points	10	9	8	7	6	4	00	Percentage of Marks Scored in a Course	≥ 90	<90 ≥80	< 80 ≥70	< 70 ≥60	< 60 ≥ 45	< 45 ≥40	< 40	(90 -100)	(80 - 89)	(70 - 79)	(60- 69)	(45 - 59)	(40 - 44)	(0 - 39)
Level	Outstanding	Excellent	Very Good	Good	Above Average	Average	Fail																																	
Letter Grade	S	A	B	C	D	E	F																																	
Grade Points	10	9	8	7	6	4	00																																	
Percentage of Marks Scored in a Course	≥ 90	<90 ≥80	< 80 ≥70	< 70 ≥60	< 60 ≥ 45	< 45 ≥40	< 40																																	
	(90 -100)	(80 - 89)	(70 - 79)	(60- 69)	(45 - 59)	(40 - 44)	(0 - 39)																																	
<b>18OB6.2</b>	<p><b>Computation of SGPA and CGPA</b></p> <p>The following expressions shall be used to compute the Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) respectively:</p> $SGPA = \frac{\sum[\text{Course Credits} \times \text{Grade Points}] \text{ for all the Courses in that Semester}}{\sum[\text{Course Credits}] \text{ for all the Courses in that Semester}}$ $CGPA = \frac{\sum[\text{Course Credits} \times \text{Grade Points}] \text{ for all Courses excluding those with F grades until that Semester}}{\sum[\text{Course Credits}] \text{ for all Courses excluding those with F grades until that semester}}$ <p>The SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards.</p> <p><b>(a) SGPA and CGPA Calculations: An Illustrative Example for one academic year</b></p> <table border="1"> <thead> <tr> <th>Semester (Odd :I, Even: II)</th> <th>Course Code</th> <th>Credits</th> <th>Grade</th> <th>Grade Points (GP)</th> <th>Credit Points (CrP)</th> <th>SGPA, CGPA</th> </tr> </thead> <tbody> <tr> <td>I</td> <td>XX101</td> <td>5:0:0 = 5</td> <td>B</td> <td>8</td> <td>5x8=40</td> <td rowspan="4"> <math>SGPA = \frac{117}{25}</math>  <math>= 4.68</math> </td> </tr> <tr> <td>I</td> <td>XX102</td> <td>3:2:0 = 5</td> <td>Absent(F)</td> <td>0</td> <td>5x0=00</td> </tr> <tr> <td>I</td> <td>XX103</td> <td>3:0:0 = 3</td> <td>A</td> <td>9</td> <td>3x9=27</td> </tr> <tr> <td>I</td> <td>XX104</td> <td>0:1:1 = 2</td> <td>F</td> <td>0</td> <td>2x0=00</td> </tr> </tbody> </table>	Semester (Odd :I, Even: II)	Course Code	Credits	Grade	Grade Points (GP)	Credit Points (CrP)	SGPA, CGPA	I	XX101	5:0:0 = 5	B	8	5x8=40	$SGPA = \frac{117}{25}$ $= 4.68$	I	XX102	3:2:0 = 5	Absent(F)	0	5x0=00	I	XX103	3:0:0 = 3	A	9	3x9=27	I	XX104	0:1:1 = 2	F	0	2x0=00							
Semester (Odd :I, Even: II)	Course Code	Credits	Grade	Grade Points (GP)	Credit Points (CrP)	SGPA, CGPA																																		
I	XX101	5:0:0 = 5	B	8	5x8=40	$SGPA = \frac{117}{25}$ $= 4.68$																																		
I	XX102	3:2:0 = 5	Absent(F)	0	5x0=00																																			
I	XX103	3:0:0 = 3	A	9	3x9=27																																			
I	XX104	0:1:1 = 2	F	0	2x0=00																																			

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I	XX105	4:1:0 = 5	D	6	5x6=30			
I	XX106	5:0:0 = 5	E	4	5x4=20			
Total		25(18*)		Total	117			
(18*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.								
II	XX107	3:1:1=5	C	7	5x7=35	$SGPA = \frac{201}{32} = 6.28$		
II	XX108	4:0:0=4	B	8	4x8=32			
II	XX109	3:0:0=3	D	6	3x6=18			
II	XX110	4:1:0=5	E	4	5x4=20			
II	XX111	2:1:1=4	A	9	4x9=27			
II	XX112	2:0:0=2	F	0	2x0=00			
II	XX113	0:2:0=2	B	8	2x8=16	$CGPA = \frac{(117 + 201)}{18 + 30} = \frac{318}{48} = 6.63$		
<b>I semester</b>								
I	XX102	3:2:0=5	D	6	5x6=30			
I	XX104	0:1:1=2	C	7	2x7=14			
Total		32 (30*)		Total	201			
(30*): Total credits of the semester excluding the credits of the courses under F grade. Considered for the calculation of CGPA of the two consecutive semesters under consideration.								
<b>(b) CGPA Calculation of the Programme: An Illustrative Example</b>								
<b>Semester</b>	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>	<b>V</b>	<b>VI</b>	<b>VII</b>	<b>VIII</b>
Credits of the semester	20	20	24	24	25	24	20	18
SGPA	4.68	6.28	9.20	6.86	8.18	7.73	9.18	9.40
∑CrP	117	201	22	165	204	185	184	169
$CGPA = \frac{[117 + 201 + 220 + 165 + 204 + 185 + 184 + 169]}{175} = \frac{[1445]}{175} = 8.26$								
<b>18OB6.3</b>	<b>Grade Card:</b> Based on the secured letter grades, grade points, SGPA and CGPA, a grade card for each semester and a consolidated grade card indicating the performance in all semesters shall be issued.							
<b>18OB7.0</b>	<b>Conversions of CGPA into Percentage of marks and Class Equivalence</b>							
<b>18OB7.1</b>	Formula for the conversion of CGPA into percentage of marks. Percentage of marks secured, $P = [CGPA \text{ Earned} - 0.75] \times 10$ Illustration for a CGPA of 8.20: $P = [CGPA \text{ Earned } 8.20 - 0.75] \times 10$ $= 74.5 \%$							
<b>18OB7.2</b>	<b>Class Equivalence:</b> Subsequent to the conversion of final CGPA, after successful completion of the Programme, into percentage of marks (P), a graduating student is reckoned to have passed in (i) First Class with Distinction (FCD) if $P \geq 70\%$ (ii) First Class (FC) if $P \geq 60\%$ but $< 70\%$ and (iii) Second Class (SC) if $P < 60\%$ .							
<b>18OB8.0</b>	<b>Continuous Internal Evaluation, Semester End Evaluation and Minimum CIE and SEE Marks</b>							
<b>18OB8.1</b>	<b>Continuous Internal Evaluation Marks and Minimum CIE Marks:</b> (a) For Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada) the maximum CIE marks shall be 100. For the award of credit, the minimum CIE marks to be secured shall be 40 % of the maximum marks i.e., 40 marks. (b) For Project work Phase -1 and Technical seminar the maximum CIE marks shall be 100. For the award of credit, the minimum CIE marks to be secured shall be 50 % of the maximum marks i.e., 50 marks.							



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	<p>The CIE marks awarded for Mini - Project, shall be based on the evaluation of Mini - Project Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for Mini - Project report shall be the same for all the batch mates.</p> <p><b>(g) Main Project Work:</b></p> <p><b>(i) Project Work Phase – 1</b> The CIE marks awarded for project work phase -1 shall be based on the evaluation of project work phase -1 Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.</p> <p><b>(ii) Project Work Phase - 2</b> The CIE marks awarded for project work phase -2 shall be based on the evaluation of project work phase -2 Report, Project Presentation skill and Question and Answer session in the ratio 50:25:25. The marks awarded for Project report shall be the same for all the batch mates.</p>
	<p><b>(h) Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada)</b></p> <p><b>(i)</b> CIE Marks in Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada) shall be the sum of marks prescribed for tests and assignments. Marks prescribed for tests shall be 75 and that for the assignments shall be 25.</p> <p><b>(ii)</b> The CIE marks awarded for the tests shall be based on three tests generally conducted at the end of fifth, tenth and fifteenth week of each semester. Each test shall be conducted for a maximum of 25 marks and the final CIE marks shall be the sum of the marks of all the three tests.</p> <p><b>(iii)</b> The remaining 25 marks shall be awarded based on the evaluation of assignments/oral discussions/ quizzes that supports communication skills.</p> <p><b>(iv)</b> Final marks awarded shall be the sum of 18OB8.2 (h) (ii) and (iii) for a maximum of 100 marks.</p> <p><b>(v)</b> Students shall write the tests in Blue Books and complete the exercises/activates/ questions given in the University Kannada textbook. These shall be preserved by the Principal/ Head of the Department for at least six months after the announcement of University results and shall be made available for verification at the direction of the Registrar (Evaluation).</p>
18OB8.3	<p><b>(a)</b> The CIE marks in the case of Internship/Technical Seminar/Mini-Project and Project Work Phase 1 and 2 shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.</p> <p><b>(b)</b> A committee constituted by the Head of the Department of Humanities and Social Science shall inspect and authenticate the award the CIE marks for the Course Vyavaharika Kannada (Balake Kannada)/Aadalitha Kannada (Samskruthika Kannada). The committee shall consist of two senior faculty members of the Department and the senior most acting as the Chairperson.</p>
18OB8.4	<p><b>(i)</b> Students satisfying the attendance requirement but failing to secure the minimum percentage of CIE marks, in any Course/s, shall not be eligible for the SEE conducted by the University and they shall be considered as fail in that Course /those Courses. However, they can appear for University examinations conducted in other Courses of the same semester and backlog Course/s if any.</p> <p><b>(ii)</b> Students who have satisfied the attendance requirement but not the CIE requirements shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course/s (with or without satisfying the attendance requirement) when offered during subsequent semester/s.</p> <p><b>(iii)</b> Each appearance to SEE to complete a course shall be treated as an attempt.</p>
18OB8.5	<p>CIE marks of those students, who come under 18OB8.4, shall also be sent to the Registrar (Evaluation) along with other course CIE Marks.</p>

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18OB8.6	<p>(i) The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory/Practical/Internship/ Technical Seminar / Mini – Project/Project work –phase 1 and 2, shall be displayed on the notice board of the college much before the closure of the semester.</p> <p>(ii) The institution shall enter the CIE marks of each semester in the format of the VTU online CIE marks portal and submit a certified copy of the same to the University Examination Section within the stipulated date notified by University. Every page of the CIE marks sheet (hardcopy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department and Principal.</p>
18OB8.7	<p>Any corrections or overwriting of CIE marks shall bear the signature(s) of concerned Teacher(s) and in such cases the Head of the Department shall indicate the number of corrections on every sheet and attest it with his/her signature.</p>
18OB8.8	<p>CIE marks shall reach the University before the commencement of examination as per the notification from the office of the Registrar (Evaluation) from time to time. After the submission of CIE marks to the University, any request under any circumstances for change of CIE marks shall not be considered.</p>
18OB8.9	<p><b>Semester End Examination Marks and Passing standards</b></p> <p>(a) University examination for all Courses under SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately reduced to a maximum of 60 marks to add the same with the CIE marks for the award of letter grade.</p> <p>(b) The University examinations for all the Programmes of study shall be conducted at the end of each semester for all the eight semesters.</p> <p>(c) Students having no backlog course/s, may not have more than one examination on the same day. However, students having backlog course/s may face a situation where they may have</p> <p>(i) Two examinations scheduled at the same time of the day,  (ii) To take two examinations on the same day, one during the morning session and the other in the afternoon session, and  (iii) Examinations on consecutive days.</p> <p>As changing the examination dates is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above three cases. In the first case, the students shall select any one of the clashing courses and in second and third cases, the students shall manage the examinations as per their decision.</p> <p>(d) The pattern of the SEE question paper for Courses Technical English I and II, Constitution of India, Professional Ethics and Cyber Law, and Environmental Studies shall be objective type [Multiple Choice Questions (MCQ)].</p> <p>(e) For a pass in a theory Course/Drawing, students shall secure a minimum 35 % of the maximum marks prescribed for the University examination and in total 40 % of the Course maximum marks, i.e., the sum of the CIE and SEE marks prescribed for the Course.</p> <p>(f) For a pass in Practical/ Mini-project / Internship/Technical Seminar/Project work, students shall secure a minimum of 40 % of the Course maximum marks prescribed for the University examination (SEE).</p> <p>(g) Students who satisfy the conditions 18OB8.9 (e) and (f), and obtain any grade from S to E in a Course shall be considered to have passed that Course.</p> <p>(h) A student shall be declared fail if the candidate</p> <p>(h.a) Fails to satisfy the conditions 18OB8.9 (g).  (h.b) Absents himself / herself to the University examination.  (h.c) Is held guilty of examination malpractice and for any other reasons and declared the performance of any Course/s null and void by a competent authority.</p> <p>(i) If a student secures F grade in any of the Course/s, he/she shall reappear for that Course/s during the subsequent SEE. The CIE marks awarded to the student at first attempt in the concerned Course/s shall be carried forward. Revised CIE marks is considered only in cases under the provision of 18OB8.4 (ii).</p>

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18OB8.10	Students who pass a Course of a semester as per 18OB8.9 (g) shall not be allowed to appear for any individual Course again, unless they opt for rejection of results of entire semester. However, students who have CGPA less than 5.00 at the end of academic Programme, subject to the provision 18OB1.4, shall be allowed to appear for only SEE of Course/s to make up the deficiency in CGPA.
18OB8.11	A student may, at his/her desire, can reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in University examinations of a semester. The rejection is permitted only once during the entire Programme of study.
18OB8.12	<p>Students who desire to reject the SEE results of a semester shall reject the total performance (irrespective of the earned Course grades) in all the Courses of the semester either rejecting or retaining the CIE marks. However, rejection of the performance of VIII semester project shall not be permitted.</p> <p>(i) Students, who desire to reject the total SEE performance of an odd or even semester including CIE marks, have to repeat that odd or even semester of the prevailing scheme by taking readmission during the subsequent academic year/s. They shall also be governed by 18OB12.1, 12.2 and 1.4.</p> <p>(ii) If the rejection of SEE results excluding CIE marks is of odd semester, students shall be allowed to take admission to the immediate next even semester.</p> <p>(iii) If the rejection of SEE results excluding CIE marks is of even semester, then students shall not be allowed to take admission to the next odd semester as per 18OB10.3. In such cases, students shall take admission to the next odd semester of the prevailing scheme during the subsequent academic year/s, after obtaining the eligibility to move to higher semester. They shall also be governed by 18OB12.1, 12.2 and 1.4.</p> <p>(iv) Readmission to odd/even semester as per 18OB8.12 (i) and (iii) shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Programme (as per 18OB1.4) shall be counted with reference to old University Seat Number.</p> <p>(v) Applications for rejection and approval to reappear for University examinations shall be sent to the Registrar (Evaluation) through the Principal of the College within 30 days from the date of announcement of the results. Late submission of applications shall not be accepted for any reasons.</p> <p>(vi) Application for approval of readmission shall be sent to the Registrar through the Principal of College within 30 days from the date of the announcement of the results. Late submission of application shall not be accepted for any reasons.</p>
18OB8.13	Students who opt for rejection of results of University examination shall be eligible for the award of degree and not for the award of ranks and Honours Degree.
18OB9.0	<b>Attendance Requirement</b>
18OB9.1	Each semester shall be considered as a unit for calculation of the attendance and the Candidates have to put in a minimum attendance of 85% in each Course with a provision of condonation of 10% of the attendance by the Vice-Chancellor on the specific recommendations of the Principal of the college where the candidate is studying, based on medical grounds, participation in University/State/ National/ International level sports and cultural activities, seminars, workshops, paper presentation etc., of significant value. The supporting documents for condoning the shortage of attendance shall be submitted along with the recommendations.
18OB9.2	<p>(a) The basis for the calculation of attendance shall be the period prescribed by the University by its calendar of events and as notified by the Registrar (Evaluation) from time to time.</p> <p>(b) In case of late admissions, approved by competent authority (DTE/VTU), to I semester/ III semester (lateral entry scheme) of day college/III semester (lateral entry scheme) of Engineering Programme conducted during evening, the attendance shall be reckoned from the date of admission to the Programme.</p>

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18OB9.3	The Course Instructor/ Mentor/College shall inform the students as well as their parents /guardians about the attendance status periodically. Students who are facing the shortage of attendance shall be mentored to make up the shortage. Principals shall also notify every month, the list of candidates who are under short of attendance.
18OB9.4	A candidate, who does not satisfy the attendance requirement (in one or more Courses and including the Courses Additional Mathematics I and II) as mentioned in 18OB 9.1 shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.
18OB10.0	<b>Vertical Progression (Promotion/ Eligibility to higher semesters)</b>
18OB10.1	There shall be no restriction for promotion from an odd semester to the next even semester, provided the student has fulfilled the attendance requirement.
18OB10.2	Along with the reasons specified at 18OB8.9 (h), a student shall be declared fail if he/she (i) Has not satisfied the CIE requirements of any Course/s. (ii) Has not registered for the SEE even after satisfying the attendance and CIE requirements.
18OB10.3	<p><b>(A) Vertical Progression in case of students admitted to First year:</b></p> <p>(a) Students having not more than four F grades in the two semesters of first year of the Programme shall be eligible to move to second year.</p> <p>(a.1) Students having not more than four F grades in the four semesters of I and II year shall be eligible to move to III year.</p> <p>(a.2) Students who have earned all the prescribed credits of I year, and having not more than four F grades in the four semesters of II and III year shall be eligible to move to IV year.</p> <p><b>(B) Vertical Progression in case of Diploma students admitted to Second year (lateral entry):</b></p> <p>(a) Students having not more than four F grades (excluding the Fail or pass status of Additional Mathematics I and II) in the two semesters of II year of the Programme shall be eligible to move to III Year.</p> <p>(a.1) Students having not more than four F grades (excluding the Fail or pass status of Additional Mathematics I and II, if any) in the four semesters of II and III year shall be eligible to move to IV year.</p> <p>(b) The mandatory non – credit Courses Additional Mathematics I and II prescribed at III and IV semesters respectively, to lateral entry Diploma holders admitted to III semester of B.E./B.Tech. Programmes shall attend the classes during the respective semesters to satisfy attendance and CIE requirements and to appear for the University examinations.</p> <p>(b.1) In case, any student fails to satisfy the attendance requirement of the Courses Additional Mathematics I and II, he/she shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.</p> <p>(b.2) Students who have satisfied the attendance requirement but not the CIE requirements of the Courses Additional Mathematics I and II shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course/s (with or without satisfying the attendance requirement) when offered during subsequent semester/s.</p> <p>(c) Completion of Additional Mathematics I and II shall be mandatory for the award of degree.</p> <p><b>(C) Vertical Progression in case of B.Sc students admitted to Second year (lateral entry):</b></p> <p>(a) Students having not more than four F grades (excluding the Fail or pass status of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme) in the two semesters of II year of the Programme shall be eligible to move to III Year.</p> <p>(a.1) Students having not more than four F grades (excluding the Fail or pass status of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme, if any) in the four semesters of II and III year shall be eligible to move to IV year.</p>

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	<p>(b) The prescribed mandatory non – credit Courses Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme to lateral entry B.Sc. holders admitted to III semester of B.E./B.Tech. Programmes, shall attend the classes during the respective semesters to complete CIE and attendance requirements and to appear for the University examinations.</p> <p>(b.1) In case, any student fails to satisfy the attendance requirement of the above said Courses, he/she shall not be eligible to appear for the Semester End Examinations of that semester and shall not be permitted to take admission to next higher semester. The candidate shall be required to repeat that semester during the subsequent year.</p> <p>(b.2) Students who have satisfied the attendance requirement but not the CIE requirements of the above said Courses, shall be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course/s (with or without satisfying the attendance requirement) when offered during subsequent semester/s.</p> <p>(c) Completion of Engineering Graphics and Elements of Civil Engineering and Mechanics shall be mandatory for the award of degree.</p> <p>The Principal of each college shall make suitable arrangements in the timetable to facilitate the B.Sc students to attend the above mentioned courses to satisfy the CIE and attendance requirements and to appear for the University examinations.</p>
18OB11.0	<b>Award of Degree</b>
18OB11.1	<p><b>1. B.E./B.Tech. degree</b></p> <p>(a) Students shall be declared to have completed the Programme of B.E. / B.Tech. degree and is eligible for the award of degree, provided the students have undergone the stipulated Course work of all the semesters under the Scheme of Teaching and Examinations and has earned the prescribed number of credits as per the provision 18OB1.5. [To be read along with 18 OB 12.1 and 12.2]</p> <p>(b) For the award of degree, a CGPA <math>\geq</math> 5.00 at the end of Programme shall be mandatory. [To be read with 18OB11.2 (1)]</p> <p>(c) Completion of Additional Mathematics I and II, shall be mandatory for the award of degree to lateral entry diploma students.</p> <p>(d) Completion of Engineering Graphics and Elements of Civil Engineering and Mechanics of First Year Engineering Programme shall be mandatory for the award of degree to lateral entry B.Sc graduates.</p> <p>(e)(i) Over and above the academic credits, every Day College regular student admitted to the 4 years Degree Programme and every student entering 4 years Degree Programme through lateral entry, shall earn 100 and 75 Activity Points respectively through AICTE Activity Point Programme for the award of degree. Students transferred from other Universities/ Autonomous colleges under VTU to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eight semester Grade Card.</p> <p>(ii) Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.</p> <p>In case students fail to earn the prescribed activity Points before the commencement of 8<sup>th</sup> semester examinations, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.</p> <p><b>2. B.E./B.Tech. (Honours) degree</b></p> <p>(a) A student shall be declared to have completed the Programme of B.E. / B.Tech. degree and shall be eligible to get undergraduate BE/B.Tech degree with Honours, provided.</p> <p>(a.1) The student has undergone the stipulated Course work of all the semesters under the same Scheme of Teaching and Examinations and has earned the prescribed number of credits as per the provision 18 OB1.5 (a) and (b).</p> <p>(a.2) Has earned additional 20 or more credits through University approved online Courses.</p> <p>(a.3) Satisfies the Regulations Governing the award of Honours at B.E./B.Tech. Degree Programmes.</p>

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18OB11.2	<p><b>(1) Noncompliance of CGPA <math>\geq 5.00</math> at the end of the Programme</b></p> <p>(a) Students who have completed all the courses of the Programme but not having a CGPA <math>\geq 5.00</math> at the end of the Programme, shall not be eligible for the award of the degree.</p> <p>(b) In the cases of 18OB11.2 (1) (a), students shall be permitted to appear again for SEE in course/s [other than Internship, Technical seminar, Project (Mini and Main), and Laboratories] of any Semester/s without the rejection of CIE marks for any number of times, subject to the provision of maximum duration of the Programme to make up the CGPA equal to or greater than 5.00 for the award of the Degree.</p> <p>(c) In case, the students earn improved grade/s in all the reappeared course/s, the CGPA shall be calculated considering the improved grade/s. If it is <math>\geq 5.00</math>, the students shall become eligible for the award of the degree. If CGPA <math>&lt; 5.00</math>, the students shall follow the procedure laid in 18OB11.2(1) (b).</p> <p>(d) In case, the students earn improved grade/s in some course/s and the same or lesser than the previously earned pass grade/s in the other reappeared course/s, the CGPA shall be calculated considering the improved grade/s and the pass grades earned before the reappearance. If it is <math>\geq 5.00</math>, the students shall become eligible for the award of the degree. If CGPA <math>&lt; 5.00</math>, the students shall follow the procedure laid in 18OB11.2 (1) (b).</p> <p>(e) In case, the students earn improved grade/s in some courses and fail in the other reappeared course/s, the CGPA shall be calculated by considering the improved grade/s and the previously earned pass grade/s of the reappeared course/s in which the students have failed. If it is <math>\geq 5.00</math>, the students shall become eligible for the award of the degree. If CGPA <math>&lt; 5.00</math>, the students shall follow the procedure laid in 18OB11.2 (1) (b).</p> <p>(f) In case, the students fail (i.e., earns F grade) in all the reappeared course/s, pass grade/s of the course/s earned by the students before reappearance shall be retained. In such cases, the students shall follow the procedure laid in 18OB11.2 (1) (b).</p> <p>(g) Students shall obtain written permission from the Registrar (Evaluation) to reappear in SEE to make up the CGPA equal to or greater than 5.00.</p> <p><b>(2) Noncompliance of Mini-project</b></p> <p>(a) The mini-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the mini-project shall be declared fail in that course and shall have to complete the same during subsequent University examinations after satisfying the Mini-project requirements. Also, mini-project shall be considered for eligibility to VII semester.</p> <p><b>(3) Noncompliance of Internship</b></p> <p>(a) All the students of B.E./B.Tech. shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credits shall be included with the credits of VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail in that Course and shall have to complete the same during subsequent University examinations after satisfy the internship requirements.</p>
18OB12.0	<b>Temporary Discontinuation/Break in the Programme/Change in Scheme of Study</b>
18OB12.1	<p>(a) If a candidate, for any reason, temporarily discontinues the Programme or take a break from the Programme during any semester intentionally, he/she shall be permitted to continue the Programme by registering to the same semester of the prevailing scheme. The candidate from that semester shall attend and complete all the remaining Course works of all the semesters, adhering to the regulations of the prevailing scheme and subject to the provision 18OB1.4. Also the Candidates may have to complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidates shall not be eligible for the award of rank / Honours degree.</p>

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	<p>(b) Candidates who take admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semester/s of the Programme adhering to the regulations of the prevailing scheme, and shall complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Courses shall not be considered for the eligibility criteria prescribed for promotion. Based on the individual cases, they shall be considered to decide the SGPA and CGPA to admit the student for the award of degree. Such candidate shall not be eligible for the award of rank/Honours Degree.</p> <p>(c) The credits to be earned by the candidates under 18OB12.1 (a) and (b) and 18OB14.1(b) and (c) shall be decided by the University along with the additional Course/s to be completed.</p>
18OB12.2	<p>(i) The candidates who have temporarily discontinued the Programme of study or changed the scheme of study from one to another because of various reasons, or transferred from autonomous/other University to non-autonomous VTU constituent/affiliated college, shall be eligible for the award of degree provided the credits earned is equal to or greater than the credits decided by the University in the individual cases.</p> <p>(ii) In case, the credits earned is less than the credits decided by the University in the individual cases, after the completion of all the semesters of the Programme under the prevailing scheme, the candidate shall register for a Course or courses not studied earlier and make up the credits earned equal to or greater than the required for the award of degree.</p> <p>(iii) If the earned Programme credits are greater than the prescribed, the CGPA shall be proportionately reduced to the prescribed Programme credits.</p>
18OB13.0	<b>Award of Prizes, Medals and Ranks</b>
18OB13.1	For the award of Prizes and Medals, the conditions stipulated by the Donor shall be considered subject to the provisions of the statutes framed by the University for such awards.
18OB13.2	<p>1) For award of rank in a Specialization of Bachelor of Engineering/ Technology, the CGPA secured by the students from III to VIII semester shall be considered.</p> <p>(2) The additional credits earned for the award of Honours degree shall not have any bearing for the Rank declaration.</p> <p>(3) A student shall be eligible for a rank at the time of award of degree of Bachelor of Engineering/ Technology, provided that the student,</p> <p>(a) (i) Has passed all the Courses of I to VIII semester in first attempt only in case of Candidates admitted to I year.</p> <p>(ii) Has passed all the Courses (including Additional Mathematics I and II in case Diploma students/ Engineering Graphics and Elements of Civil Engineering and Mechanics in case of B.Sc graduates under lateral entry) of III to VIII semester in first attempt only in case of Candidates admitted under lateral entry scheme.</p> <p>(b) Is not a repeater in any semester because of rejection of result of a semester/ shortage of attendance etc.</p> <p>(c) Has completed all the Courses/semesters of the same Scheme of Teaching and Examinations without any break/discontinuity.</p> <p>(d) Has completed all the semesters (I to VIII/III to VIII) in VTU constituent college or in any VTU affiliated non-autonomous college.</p> <p>(e) Has not been transferred from any autonomous institution affiliated to VTU or from any other University.</p> <p>(4) The total number of ranks awarded shall be 10% of total number of students appeared in VIII semester subject to a maximum of 10 ranks in a Specialization.</p> <p>(5) For award of ranks in a Specialization, a minimum of 10 students should have appeared in the VIII semester examination.</p> <p><b>Illustration:</b></p> <p>(a) If 1228 students appeared for the VIII semester in Electronics and Communication Engineering Programme, the number of ranks to be awarded for Electronics and Communication Engineering shall be 10.</p>

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	<p>(b) If 90 students appeared for the VIII semester in Biomedical Engineering, the number of ranks to be awarded for Biomedical Engineering will be 09.</p> <p>(6) In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place is greater than or equal to 5.</p>
18OB13.3	Ranks shall be awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. If it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B etc., shall be taken into account to decide the order of the rank.
18OB14.0	<b>Transfer of students</b>
18OB14.1	<p>(a) (i) Transfer of students from one VTU affiliated non – autonomous college to another VTU non – autonomous affiliated college shall be permitted only at the beginning of third, fifth and seventh semesters, subject to availability of seats within the permitted intake in respective Colleges with the approval of the Registrar, VTU subject to the provision 18OB10.3.</p> <p>(ii) The students seeking transfer as per 18OB14.1 (a) (i) shall have to obtain No Objection certificate for admission from the University and from both the colleges before the commencement of term as notified by VTU.</p> <p>(iii) Complete the Programme subject to the provision 18OB1.4.</p> <p>(b) Transfer of students from an autonomous to non – autonomous college, affiliated to VTU is permitted with the following conditions.</p> <p>(i) Transfer shall only be at the beginning of III and V semester B.E./B.Tech. Programme.</p> <p>(ii) No transfer shall be permitted to VII semester B.E./B.Tech. Programme.</p> <p>(iii) Students who are seeking transfer must have passed in all the Courses of the previous semesters.</p> <p>(iv) Obtain No Objection certificate for admission from the University and from both the colleges before commencement of term as notified by VTU.</p> <p>(v) Complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing the equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the Eligibility criteria prescribed for promotion, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.</p> <p>(vi) Earn the credits decided by the University as per 18OB12.2.</p> <p>(vii) Complete the Programme subject to the provision 18OB1.4.</p> <p>(c) In the case of students seeking transfer from Universities other than VTU, the students must have passed in all the Courses of I and II semesters for admission to III semester and all the Courses of I to IV semesters for admission to V semester. No transfer shall be permitted to VII semester B.E./B.Tech. Programme of VTU from any other Universities. The students seeking admission from other Universities to VTU shall have to</p> <p>(i) Apply for establishment of equivalence with prescribed fees as notified by the VTU and obtain No Objection certificate for admission from the University before the commencement of term as notified by VTU.</p> <p>(ii) Produce No Objection certificate for admission from both the colleges before the commencement of term as notified by VTU.</p> <p>(iii) Complete additional Course/s, if any, as per the decision of concerned Board of Studies on establishing equivalence between two schemes. A Grade card shall be issued to that effect. Additional Course/s shall not be considered for the eligibility criteria prescribed for promotion, calculation of SGPA and CGPA. However, a pass in the additional Courses, if any, is mandatory before the completion of Degree.</p> <p>(iv) Earn the credits as decided by the University as per 18OB12.2.</p> <p>(v) Complete the Programme subject to the provision 18OB1.4.</p>
18OB14.2	Transfer of students within the College from one branch to another branch at the start of III semester shall be permitted with the approval of the Registrar, VTU subject to the provisions made by the appropriate authorities.

**Regulations Governing the Degree of Bachelor of Engineering/Technology (B.E./B.Tech.)  
Under Outcome Based Education (OBE) and Choice Based Credit System (CBCS)  
Effective from the Academic Year 2018 - 19**

<b>18OB14.3</b>	The University may prescribe fee for administration purpose, which shall be notified from time to time, for transfer from one college to another (Change of College) or one branch to another branch (change of branch within the college).
<b>18OB15.0</b>	<b>Applicability and Power to Modify</b>
<b>18OB15.1</b>	The regulations governing the Degree of Bachelor of Engineering/Technology of Visvesvaraya Technological University shall be a binding on all concerned.
<b>18OB15.2</b>	i) Notwithstanding anything contained in the foregoing, the University shall have the power to issue directions/ orders to address any difficulty.  ii) Nothing in the foregoing may be construed as limiting the power of the University to amend, modify or repeal any or all of the above.



  
**REGISTRAR**  
**Visvesvaraya Technological University,**  
**BELAGAVI - 590 018.**