



CERTIFICATE

This to Certify that Mr. / Ms. / Mrs. / Prof./Dr.____

JYOTHI DN

Participated Faculty development Programme On "Total Station & Drone Survey application in Civil Engineering"

in the National Conference & Faculty Development Programme in Science and Technology

on 26th 10 28th March 2019 at ATME College of Engineeeing Mysuru, Karnataka, India

Dr. H. Honne Gowda Special Director (Technical) Dept-of Science & Technology

Mr. Manuvijay HOD. Dept. of Civil Engg.

Dr. K.J. Suresha Convenor, ATMECE

Dr. L. Basavaraj Principal, ATMECE





CERTIFICATE

This to Certify that Mr. / Ms. / Mrs. / Prof./Dr. Participated Faculty development Programme On "Total Station & Drone Survey application in Civil Engineering" in the National Conference & FacultyDevelopment Programme in Science and Technology

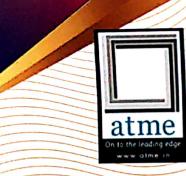
on 26" to 28" March 2019 at ATME College of Engineeeing Mysuru, Karnataka, India

Dr. H. Honne Gowda Special Director (Technical) Dept. of Science & Technology

Mr. Manuvijay HOD. Dept. of Civil Engg.

Dr. K.J. Suresha Convenor, ATMECE

Dr. L. Basavaraj Principal, ATMECE





CERTIFICATE

This to Certify that Mr. / Ms. / Mrs. / Prof. / Dr. MANDEE P. G

Participated Faculty development Programme On "Total Station & Drone Survey application in Civil Engineering"

in the National Conference & Faculty Development Programme in Science and Technology

on 26th 10 28th March 2019 at ATME College of Engineeeing Mysuru, Karnataka, India-

Dr. H. Honne Gowda Special Director (Technical) Dept. of Science & Technology

Mr. Manuvijay HOD. Dept. of Civil Engg.

Jun.

Dr. K.J. Suresha Convenor, ATMECE

Dr. L. Basavaraj Principal, ATMECE





CERTIFICATE

This to Certify that Mr. / Ms. / Mrs. / Prof. / Dr. Rudsesh. A.N.

Participated Faculty development Programme On "Total Station & Drone Survey application in Civil Engineering"

in the National Conference & Faculty Development Programme in Science and Technology

on 26th to 28th March 2019 at ATME College of Engineeeing Mysuru, Karnataka, India

Dr. H. Honne Gowda Special Director (Technical) Dept. of Science & Technology

Mr. Manuvijay HOD. Dept. of Civil Engg.

Jum.

Dr. K.J. Suresha Convenor, ATMECE







CERTIFICATE

This to Certify that Mr. / Ms. / Mrs. / Prof./Dr Poneeth . K Participated Faculty development Programme On "Total Station & Drone Survey application in Civil Engineering"

in the National Conference & FacultyDevelopment Programme in Science and Technology

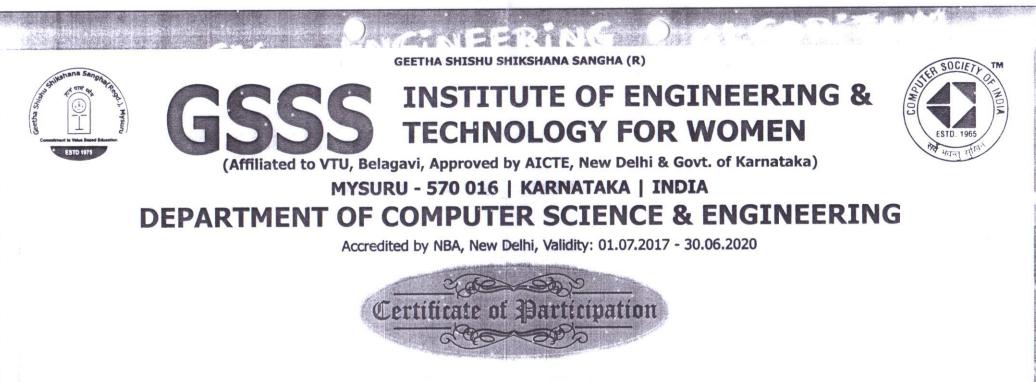
on 26th to 28th March 2019 at ATME College of Engineeeing Mysuru, Karnataka, India

Dr. H. Honne Gowda Special Director (Technical) Dept. of Science & Technology

Mr. Manuvijay HOD. Dept. of Civil Engg.

Dr. K.J. Suresha Convenor, ATMECE

Dr. L. Basavaraj Principal, ATMECE



This is to certify that

Mr. Anil Kumar C J

of ATME College of Engineering, Mysuru has participated in the 5 Day Faculty Development Program on *"Recent Advances in Machine Learning"*, organized by the Department of Computer Science & Engineering, GSSSIETW, Mysuru in association with CSI Mysore & CSI Bangalore Chapters from 17th to 21st July 2018.

Principal Engineer Samsung, Bengaluru

Prof. & Head, Dept. of CSE GSSSIETW, Mysuru

el. slivalumas Dr. M Shivakumar Principal GSSSIETW, Mysuru

A T M E atme College of Engineering

Department of Computer Science & Engineering



Date: 23/07/2018

A BRIEF report on Five Days Faculty Development Programme on "Recent advances in Machine Learning"

Five days Faculty Development Program on "Recent advances in Machine Learning" was organized by Department of Computer Science & Engineering, GSSSIETW, Mysuru. The programme was conducted from 17th July 2018 to 21st July 2018.

The main objective of this FDP is to get acquainted with the recent advances in machine learning and to empower engineering fraternity to do research in this area. The major aspects covered in this FDP are:

Day 1: 17th July 2018

Dr Dinesh R, Principal Engineer at Samsung Electro-Mechanics, Bangalore, was the resource person for the first day session. He gave an overview on concepts such as.

- Overview, Challenges and Opportunities
- ML Applications
- Stages in ML
- Types of Learning
- Learning Mechanism
- Representing Hypothesis
- Find- S algorithm
- Candidate Elimination Algorithm
- Decision tree representation

Day 2:18th July 2018

Dr V N Manjunath Aradhya & B S Harish, JSS Science and Technology University, Mysuru, was the resource persons for the second day session. Discussed on

- Supervised Machine Learning
- Regression
- Variants of NN algorithm
- Support Vector Machine
 - Unsupervised Learning
 - Clustering

Day 3: 19th July 2018

Dr Mohammad Imran and Dr Chethan ,Senior Data Scientist EJYLE Technologies Bangalore, was the resource persons for the third day session, All the concepts were explained with the hands-on session.

- Probability Density function
- Radial Bayesian Function
- Exponential Regression
- Training and Testing Data
- Introduction to Python
- Basic Programs on Python Hands on session

Day 4: 20th July 2018

Dr Mohammad Imran and Dr Chethan ,Senior Data Scientist EJYLE Technologies Bangalore, was the resource persons for the fourth day session, All the concepts were explained with the hands-on session.

- Introduction to Neural Network
- Deep Learning
- Gradient Descent
- Convolution Neural Network
- Architecture of Error Rate
- Hands-on Lab Exercises

Day 5: 21st July2018

Manjuprasad B, and Manjunath S, Asst. Prof, GSSSIETW, Mysuru, was the resource persons for the fifth day session, All the concepts were explained with the hands-on session.

- Python for Data Analysis
- Hands-on Lab Exercises

Outcome of the Programme

The FDP was helpful in providing the "*Recent advances in Machine Learning*" and to empower engineering fraternity to do research in this area. The Valedictory function is conducted at the end of the FDP and certificates were distributed to all the participants.

Dept. of Computer Science & English ATME College of Engineering Mysuru-570028

Department of Information Technology National Institute of Technology Karnataka, Surathkal Srinivasnagar, Mangalore-575025



This is to certify that

Mrs M. S. Sunitha Patel Assistant Professor, Department of CS&E ATME College of Engineering, Mysore

has participated in TEQIP-III Sponsored Five Day Short-Term Program on

"Applications of Data Mining and Deep Learning Techniques in Multidisciplinary Area," held from 24th – 28th June 2019

6119

(Dr. Nagamma Patil)

Coordinator Dr. Jaidhar

Head of the Department (Prof. G. Ram Mohana Reddy)



Cisco Networking Academy

Certificate of Course Completion

CCNA Routing and Switching: Connecting Networks

The student has successfully achieved student level credential for completing CCNA Routing and Switching: Connecting Networks course administered by the undersigned instructor. The student was able to proficiently:

- Describe different WAN technologies and their benefits
- · Configure and troubleshoot PPP.

AnilKumar BH

- · Configure PPPoE, GRE, and single-homed eBGP.
- Configure and troubleshoot extended IPv4 and IPv6 ACLs.
- · Explain how to mitigate common LAN security attacks.

- · Describe QoS operation.
- Describe evolving networks including cloud, virtualization, SDN, and the Internet of Things
- Troubleshoot end-to-end connectivity in a small to mediumsized business network, using a systematic approach.

| Jun 3, 2019 |
|---------------------------------|
| Date SHWA VIDYAS |
| Instructor Signature Networking |
| Academy * |
| |

Cisco Networking Academy



Certificate of Course Completion

CCNA Routing and Switching: Scaling Networks

The student has successfully achieved student level credential for completing CCNA Routing and Switching: Scaling Networks course administered by the undersigned instructor. The student was able to proficiently:

- Describe the operations and benefits of the Spanning Tree Protocol (STP).
- Configure and troubleshoot STP operations.
- Describe the operations and benefits of link aggregation and Cisco VLAN Trunk Protocol (VTP).
- Configure and troubleshoot VTP, STP, DTP, and RSTP.

- · Configure and troubleshoot inter-VLAN routing
- Configure and troubleshoot EtherChannel and HSRP.
- Configure and troubleshoot basic operations of routers in a complex routed network for IPv4 and IPv6.
- Configure and troubleshoot advanced operations of routers and implement OSPF and EIGRP routing protocols for IPv4 and IPv6.

AnilKumar BH

Student

Amrita Vishwa Vidyapeetham

Academy Name

India

Location

M Kohila

Instructor









Department of Computer Science & Engineering

Machine Learning Techniques and tools

The topics related to machine learning was covered,

Speaker 1

- Topics Covered.
- Big Data Challenges with Big Data and solution
- Background Big Data Processing Frameworks
- The proposed Algorithms
- Experimental Results
- Application Clustering Genome Data

Speaker 2

- Introduction
- Feature Extraction techniques
- Feature Selection techniques
- Experimental results
- Conclusions

Speaker 3

- Signature Verification
- Text Analysis
- Flower classification
- Micro gene analysis
- Video Processing

Speaker 4

- Probability Why Gaussian
- Normal Distribution
- Mixture Models Applications

Speaker 5

- Learning
- Clustering
- Types of Clusters
- Clustering Techniques
- Hierarchical
- Partitional
- Fuzzy C-Means and its Variants





Department of Computer Science & Engineering

• Applications

Validity Measures

Corporate Social CISCO. Responsibility Certificate of Course Completion

Cisco Networking Academy

CCNA Routing and Switching: Connecting Networks

The student has successfully achieved student level credential for completing CCNA Routing and Switching: Connecting Networks course administered by the undersigned instructor. The student was able to proficiently:

- · Describe different WAN technologies and their benefits.
- · Configure and troubleshoot PPP.
- Configure PPPoE, GRE, and single-homed eBGP.
- Explain how to mitigate common LAN security attacks.

- · Describe QoS operation.
- Describe evolving networks including cloud, virtualization, SDN, and the Internet of Things.
- Troubleshoot end-to-end connectivity in a small to medium-sized business network, using a systematic approach.

| Kiran B | | |
|----------------------------|----------------------|--|
| Student | | |
| Amrita Vishwa Vidyapeetham | | |
| Academy Name | | |
| India | 3 Jun 2019 | |
| Location | Date | |
| M Kohila | | |
| Instructor | Instructor Signature | |

Cisco Networking Academy

Corporate Social CISCO Responsibility Certificate of Course Completion

CCNA Routing and Switching: Scaling Networks

The student has successfully achieved student level credential for completing CCNA Routing and Switching: Scaling Networks course administered by the undersigned instructor. The student was able to proficiently:

- · Describe the operations and benefits of the Spanning Tree Protocol (STP).
- · Configure and troubleshoot STP operations.
- · Describe the operations and benefits of link aggregation and Cisco VLAN Trunk Protocol (VTP).
- · Configure and troubleshoot VTP, STP, DTP, and RSTP.

- · Configure and troubleshoot inter-VLAN routing.
- · Configure and troubleshoot EtherChannel and HSRP.
- · Configure and troubleshoot basic operations of routers in a complex routed network for IPv4 and IPv6.
- · Configure and troubleshoot advanced operations of routers and implement OSPF and EIGRP routing protocols for IPv4 and IPv6.

Kiran B

| Student | |
|----------------------------|-----------------------|
| Amrita Vishwa Vidyapeetham | |
| Academy Name | |
| India | 3 Jun 2019 |
| Location | Date |
| M Kohila | |
| Instructor | Instructor Cirpacture |

Instructor Signature



31st May 2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that that Mr Kiran B, ATME College of Engineering, Mysore has attended the Cisco Networking Academy Training Program on CCNA 3 & 4 at Amrita Vishwa Vidyapeetham, Coimbatore from 20.05.2019 to 31.05.2019.

| Date | Attendance |
|------------|--------------|
| 20.05.2019 | |
| 21.05.2019 | |
| 22.05.2019 | |
| 23.05.2019 | |
| 24.05.2019 | |
| 25.05.2019 | \checkmark |
| 26.05.2019 | SUNDAY |
| 27.05.2019 | |
| 28.05.2019 | \checkmark |
| 29.05.2019 | \checkmark |
| 30.05.2019 | \checkmark |
| 31.05.2019 | \checkmark |

Sreevalsan M. Legal Main Contact Cisco Instructor Training Center (ITC/ASC)



GEETHA SHISHU SHIKSHANA SANGHA (R)

SS INSTITUTE OF ENGINEERING & TECHNOLOGY FOR WOMEN



(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi & Govt. of Karnataka)

MYSURU - 570 016 | KARNATAKA | INDIA

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Accredited by NBA, New Delhi, Validity: 01.07.2017 - 30.06.2020



This is to certify that

Ms. Kavyashree E D

of ATME College of Engineering, Mysuru has participated in the 5 Day Faculty Development Program on *"Recent Advances in Machine Learning"*, organized by the Department of Computer Science & Engineering, GSSSIETW, Mysuru in association with CSI Mysore & CSI Bangalore Chapters from

17th to 21st July 2018.

Principal Engineer Samsung, Bengaluru

Prof. & Head, Dept. of CSE GSSSIETW, Mysuru Dr. M Shivakumar Principal GSSSIETW, Mysuru

| Roll No: NPTEL19GE04S31790172 To PRATHIBHA M K #8408, BRIGADE SPARKLE APARTMENT J P NAGAR, MYSORE KARNATKAA 570008 PH. NO :9449610089 | | |
|--|--------|---|
| | Score | Type of Certificate |
| | >=90 | Elite+Gold |
| | 75-89 | Elite+Silver |
| | >=60 | Elite Successfully completed |
| | 40-59 | the course No Certificate |
| No. of credits recommended by NPTEL:1 | <40 | No ocranicate |
| Elite NPTEL Online Certific (Funded by the Ministry of HRD, Govt. of India) This certificate is awarded to | atio | n |
| PRATHIBHA M K | | |
| for successfully completing the course | | |
| Teaching And Learning in Engineering | (TALE) | |
| with a consolidated score of 69 % | | |
| Online Assignments 19.58/25 Proctored Exam 49. | 5/75 | |
| Total number of candidates certified in this course: 1584 $\mathcal{C}\!$ | | 21 |
| | | alhan |
| Prof. G. L. Sivakumar Babu Chairman, Center for Continuing Education IISc Bangalore (4 week course) | I | Prof. L. Umanand NPTEL Coordinator IISc Bangalore |
| Chairman, Center for Continuing Education Feb-Mar 2019 | | NPTEL Coordinator |



Department of Electronics & Communication Engineering



(Accredited by NBA, New Delhi. Validity 01.07.2019 to 30.06.2022)

Report on participation in AICTE approved FDP course

"Teaching And Learning in Engineering (TALE)"

It is an AICTE approved FDP course of duration 4 weeks conducted from 25th February 2019 to 27th Match 2019.The course Instructor Prof. N.J. Rao Previously the Chairman of CEDT (Centre for Electronics Design and Technology, IISc during 1981 – 1996, and Chairman, Department of Management Studies during 1998 – 2006, and superannuated as Professor at CEDT in July 2006. Presently a Consulting Professor at International Institute of Information Technology (IIIT), Bangalore, a member of several committees associated with NBA, and a member of the Core Committee that defined the new Accreditation processes of NAAC

This course focus on students attaining a certain set of outcomes requires a shift from teacher centric approach to student centric instruction. The course TALE addresses many of the common issues of teaching and learning in engineering in the Indian context and tries to provide a complete solution to a teacher to the process of design and conduct of an engineering course leaving all the academic freedom he/she wants to have. While at some places the solutions appear to be specific they can be treated as examples, and alternate solutions can be worked out by the teacher. TALE is presented as a set of four modules with each module having about 20 half-hour units. This course will be useful to all teachers of higher education institutions offering undergraduate programs in engineering.

The Course layout is as follows

Week 1: Overview of TALE and Good Engineer, Education, Teaching, Learning, Instruction and Assessment, OBE, Accreditation, Outcomes

Week 2: Program Outcomes 1,. Program Outcomes 2, Taxonomy of Learning, Cognitive Levels 1, Cognitive Levels 2

Week 3: General Categories of Knowledge, Metacognitive Knowledge, Unit 13. Vincenti Categories of Engineering Knowledge, Affective and Psychomotor Domains, Taxonomy Table

Week 4:. Course Outcomes 1, Course Outcomes 2, Course Outcomes – POs and PSOs, Attainment of Cos, Attainment of POs and PSOs

Successfully the course has been completed by appearing in proctored end exam with a consolidated score of 69%.







JSS MAHAVIDYAPEETHA JSS SCIENCE AND TECHNOLOGY UNIVERSITY Sri Jayachamarajendra College of Engineering JSS Technical Institution Campus, Mysuru - 570006 TEQIP – III

Certificate of Participation

This is to certify that Mr./Ms. <u>GURUPRASAD KN</u> of <u>ATMECE</u>, <u>Mysuu</u> participated in one week workshop titled "Analysis of Biomedical Signals and their Mathematical Modeling" organized jointly by the Department of Electronics and Instrumentation and the Department of Mathematics, Sri Jayachamarajendra College of Engineering, JSS Science and Technology University, Mysuru, held during 24 – 28 December 2018.

_a Remik

Dr. K. Umarani Coordinator Dept. of E&I

Dr. M. Smitha Coordinator Dept. of Mathematics

Dr. B. Manoj Kumar Coordinator TEQIP – Phase III

L_____ h

Dr. Shailaja. K. Prof. & Head Dept. of E&I

10 Loor

Dr. T. D. Roopamala Prof. & Head Dept. of Mathematics

Dr. T. N. Nagabhushan Principal SJCE, Mysuru



Department of Electronics &



(Accredited by NBA, New Delhi. Validity 01.07.2019 to 30.06.2022)



TO CHANDRA SHEKAR P NO 47 4TH CROSS 2ND MAIN ROAD B M SHREE NAGAR METTAGALLI MYSORE

KARNATAKA

570016





| No. of weeks of NPTEL Courses | Equivalence of NPTEL course with regular FDP |
|----------------------------------|---|
| 4 | $\frac{1}{2}$ FDP of one week |
| 8 | Full FDP of one week |
| 12 | $1\frac{1}{2}$ FDP |

Duration of NPTEL course: 12 Weeks



NPTEL-AICTE Faculty Development Programme

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

CHANDRA SHEKAR P

for successfully completing the course

Op-Amp Practical Applications: Design, Simulation and Implementation

with a consolidated score of 60 %

Prof. Andrew Thangaraj NPTEL Coordinator IIT Madras

(Jul-Oct 2019)

Prof. Dileep N. Malkhede Advisor-I (Research, Institute & Faculty Development) All India Council for Technical Education

Roll No: NPTEL19EE39S61830369

To validate and check scores: http://nptel.ac.in/noc

The candidate has studied the above course through MOOCs mode, has submitted online assignments and passed proctored exams. This certificate is therefore acceptable for promotions under CAS as per AICTE notifications dated 24th July 2018, similar to other refresher / orientation courses. F.No. AICTE / RIFD / FDP through MOOCs / 2017-18



Department of Electronics &



(Accredited by NBA, New Delhi. Validity 01.07.2019 to 30.06.2022)

12 WEEKS FDP ON

"OP-AMP PRACTICAL APPLICATIONS: DESIGN, SIMULATION AND

IMPLEMENTATION"

JULY - OCT 2019

Op-Amp Practical Applications: Design, Simulation and Implementation course is an AICTE approved FDP Course. This course is a system design-oriented course aimed to provide exposure on applications of op-amps and its importance in the real world. Since analog circuits play a crucial role in the implementation of an electronic system, this course emphasis On complete system design with initial discussion on circuit design. As part of this course student can build analog systems using analog ICs and study their macro models. Below are some of the course outcomes. To expose the operation of the basic building blocks of analog system To understand and analyze the Op-Amps. To understand feedback techniques and its advantage Ability to design amplifiers using Op-Amps Ability to analyze and design filters using Op-Amps, To develop the skill to build and troubleshoot Analog circuits To develop the skill to build complete system using analog circuits.

The course was held for a **12 weeks** i.e., July - Oct 2019 by *Dr. Hardik J. Pandya*, Department of Electronic Systems Engineering, Division of Electrical Sciences, IISc Bangalore and *Prof Chandramani Kishore Singh*, Dept. of Electrical communication Engineering, Indian Institute of Science Bangalore.

The layout of the course is a below;

Week 1: Understanding the Datasheet of Op-Amps

Week 2: Introduction to op-amps and discussion on its characteristics by simulation and experiment

Week 3: Understand the basics of Hysteresis and the need of hysteresis in switching circuits

Week 4: Op-Amp Circuits Analog-to-Digital Converter (ADC)

Week 5: Digital-to-Analog Converter (DAC) using Op-Amps

Week 6: To design and build a function generator capable of generating square wave and triangular wave of a known frequency using simulation and experiment by TI analog system lab kit pro

Week 7: To design and build a voltage-controlled oscillator using simulation and TI analog system lab kit pro

Week 8: To design and build an automatic volume control using simulation and TI analog system lab kit pro

Week 9: To design and build a constant current drive circuit for measuring unknown resistance using simulation and Experiment on bread board

Week 10: To design and build a temperature controlled system using op-amps as ON-OFF controller and Proportional controller by simulation and Experiment on bread board

Week 11: To design and build a signal conditioning circuit for the thermocouple to compensate for temperature correction

Week 12: To design and Implement a speed controller of a DC motor using simulation and experiment

Successfully the course has been completed by appearing in proctored end exam with a consolidated score of 60.00%.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI

Department of Digital Electronics & Communication System VTU Centre for Post Graduate Studies, Mysuru – 570029

TEQIP – 1.3 SPONSORED one week FEP on ENGINEERING ELECTROMAGNETICS

23rd - 27th JULY 2018

~ OC REPARCOL

Certificate

This is to certify that Dr/Mr/Ms. Gisish. M. of ATME Coll of Engg. My sure

has participated and successfully completed TEQIP-1.3 Sponsored one week Faculty

Enrichment Programme (FEP) on "Engineering Electromagnetics" from 23rd to 27th July 2018

organised by Department of DECS, VTU Centre for Post Graduate Studies, Mysuru - 570029

Dr.G.F.Ali Ahmed

Program Coordinator VTU PG Centre, Mysuru

Dr.K.Manjunatha PG Coordinator & Regional Director VTU, Mysuru

Dr.H.N.Jagannatha Reddy Registrar VTU

Dr.Karisiddappa Hon'ble Vice-Chancellor VTU



VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI Organized under TEQIP CELL Department of Digital Electronics and Communication System Center for Post Graduate Studies Visvesvaraya Technological University, Mysuru-570029

ATTENDANCE CERTIFICATE

Dr./Mr./Ms./Mrs. Girish M has attended the Five Days "TEQIP -1.3 SPONSORED FACULTY ENRICHMENT PROGRAM ON ENGINEERING ELECTROMAGNETICS" from 23rd- 27th July-18 at Visvesvaraya Technological University, PG Centre, Mysuru.

Program[•]Coordinator





Report on One Week Faculty Enrichment Programme on Engineering Electromagnetics (23rd to 27th July 2018)

Day-1

Inauguration: Dr. H Hemanth Kumar, University of Mysore, Mysuru

Key note speech: He delivered a key note speech on current outcome based education comparing with older education system and he addressed about the passion of teaching, why people will call teaching as Nobel profession. He addressed very nicely about the teaching Profession.

Dr. H V Kumaraswamy, RVCE, Bengaluru

Morning Session was started with above said person, He concentrating Prerequisites of Electromagnetics like Rectangular Coordinate systems, Cylindrical Coordinates and Spherical coordinate systems, Late he shown some animated slides of those along with formulae that will be used in the entire course of electromagnetics.

Second Session He was started with Coulomb's law and its interpretation with example problems and later the concept of electric field intensity was delivered and its interpretation with many charges were derived.

Dr. Shushrutha K S, RVCE, Bengaluru

After Lunch Break above said person took the stage to explain field due to Line Charge Density derivation, and procedure to apply the mathematical model to all other distribution of charges he was very nice at explanation of concepts with mathematical proof also he gave analogous there in the magnetic fields derivations. Later again first Resource Person took the session and explained the concept of electric flux density.

Day -2

Dr. Manjunatha R C, GAT, Bengaluru

Second Day morning session was started with Module 2 first half of the session he explained the example application where actually the concept of EM is deployed with applications in various domain. Later he started the Gauss's Law concept, after that he derived whatever the



derivations are present in the first module using Gauss's law, so that it becomes easier to students to derive in the exam if they not mention which way to be used in order to derive. He finally came to the divergence theorem and Maxwell's first equation and also solved some examples on how surface to be considered as Gaussians Surface for the appropriate problems. He explained how the question need to be set to the IA so that how students can score good marks in IA as well.

Dr. Lakshmikanth C, VKIT, Bengaluru

After noon session was started with concept of Energy expended in moving a charge from a point into another later Potential and Potential difference concept. He Described that why the work done required is negative and how it physically interpreted.

Later He gave the essential of gradient in Electromagnetics and he explained the Bloom's taxonomy levels that are mapping to the particular module. Late Coordinators assigned to prepare an internal question paper and how mapping of BTL to be done.

Day - 3

Dr. C K Narayanappa, MSRIT, Bengaluru

Himself author for the one of the electromagnetics book published by signage publication. He started with Laplace and Poisson's equation derivation later he solved the all the three cases that are present in syllabi, and told about how students can easily remember if they have practiced. Then session continued with problems of all such cases and also and all the possible ways they ask in exam.

After noon session he started with Uniqueness theorem and its applications then move on to the steady state magnetic field concept Biot – Savart law was explained and the same is applied to the different charge distribution types. Then he explained Ampere's circuital law and how it relates to Maxwell's equation. Later he solved few problems on previously mentioned topics.

Day - 4

Dr. Shushrutha K S, RVCE, Bengaluru

This person working on antennas and wave propagation, he is member of IEEE, he had guided funded projects in RVCE, he has patent too. He was eager to explain all the Maxwell's 20 equations. But because of time constraint he shown the ebooks what he has surveyed for his work. Later shown some IEEE TV videos those are related to Maxwell's equations and then he





started with Coordinate Systems in detail in such a way that how actually we need to understand these concepts to students.

Later Session purely on the three Del operator what we are using in electromagnetics in major role how they exhibit all the laws or meet the concept given by Maxwell's equations called **Gradient, Divergence and Curl** concepts.

After that he started with scalar and vector magnetic potentials and how they are developed. His lecture entirely based on mathematical modelling for all what we consider in lot of derivations. He is so clear at explanation its importance and strategies how they are interpreted in Magnetostatics

He Concluded the session with taking electromagnetics as mother of all subjects irrespective of engineering branches of study. Because it forms such basics needed for all advancement in different domain.

Day - 5

Dr. Faheem Ahmed Khan, Gousia College of Engineering, Ramanagara

He was started the session directly with Faraday's law on induction, he well stated how actually experiment was conducted during 1860s, late how it became universal accepted, he also derives the formulae that he has put forth for understanding. Later he took DC motor and AC motor how they are related to Faraday's law, how Right hand thumb rule is related to Flux linkage on what basis transformer works in AC current.

As session move further he derived all the Maxwell's equations both in integral form and point forms. Later solved few problems on it. Then moving on he has explained and derived the Poynting theorem and Skin Depth equations

Afternoon I was prepared model question paper and submitted, then valedictory function was started and they distributed the certificates of attendance and participation. I also render the feedback about overall experience on these five days.





Department of Electrical and Electronics Engineering ATME College of Engineering, Mysore

Certificate

This is to certify that

Mr./Ms./Mrs. PRAVEEN KUMAR M

ATME

College

has participated in the Three day Faculty Development

Programme on "GNU Linux Operating System

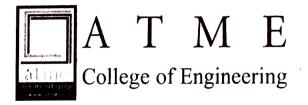
in Electrical and Electronics Engineering" from

10th to 12th January 2019

of

Dr. Parthasarathy L

Prof. R. S. Ananda Murthy





Department of Electrical and Electronics Engineering ATME College of Engineering, Mysore

Certificate

This is to certify that

Mr./Ms./Mrs. VINOD KUMAR P

ATME

_ College

has participated in the Three day Faculty Development

Programme on "GNU Linux Operating System

in Electrical and Electronics Engineering" from

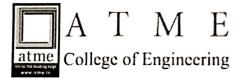
10th to 12th January 2019

of

Dr. L Basavaraj Principal ATME College of Engineering

Dr. Parthasarathy L Head, Dept. of EEE ATME College of Engineering

Prof. R. S. Ananda Murthy ⁽ Associate Professor & former Head (Retd.), Dept. of EEE JSS Science and Technology University





Press Report

Three Days Zonal Level Faculty Development Programme (FDP) on "GNU Linux Operating System in Electrical and Electronics Engineering"

Department of Electrical and Electronics Engineering, ATMECE, Mysuru had organised a Three Days Zonal level FDP on "GNU Linux Operating System in Electrical and Electronics Engineering", from 10th to 12th January, 2019. Prof. R S Ananda Murthy, Associate Professor and former Head (Retd), JSS Science and Technology University, Mysuru was the Chief Guest and Resource person.

Guest of Honor, Dr.L Basavaraj, Principal, ATME College of Engineering, Mysuru said majority of us are familiar with windows operating system and it is not easy to switch over to other platforms instantly. The major benefit of Linux operating system will be for faculties who are pursuing PhD, which will help in safeguarding key documents. He advised participants to utilise the knowledge gained effectively.

Dr.Parthasarathy L, Head, Department of Electrical and Electronics Engineering presided and said it is our job to upgrade our knowledge. Technology is changing and when it comes to computing systems it is imperative to change operating systems. It is important to reduce investment on licensed softwares. GNU being a new dimension of operating system will help us in learning perspective. He advised all the participants to take forward the skill-set gained in the FDP.

Prof. R S Ananda Murthy started the session on Day 1 and explained the philosophy of licensed software and explained the process to install and use GNU Linux Operating System and additional application software required for teaching Electrical and Electronics Engineering.

On Day 2 he explained how to use GNU Linux for conducting experiments in Digital Signal Processing Lab, Control Systems Lab and for Electrical CAD.

Day 3 he explained various open source tools like i-test, Q Electrotech, jabref, FET, Octave, inkskape, Scilab, LATEX etc and the process of utilising the tools.

In the valedictory, Resource Person, Prof. R S Ananda Murthy, Dr. Parthasarathy L, HoD, Mr.Santhosh Kumar R, Mr.Rajesh K S, Assistant Professors and Event Coordinators, Faculty of the department were present. Certificates were distributed to the participants.

Ur. PARTHASARATHY L. Professor and HOD Dept. of Electrical & Electronics Engineerin ATME College of Engineering, Mysuru

EEE_R19_2018_19_ODD_SSR



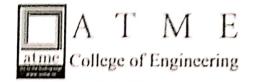




Pie: During Inauguration: From Left: Mr.Santhosh Kumar R, Assistant Professor and Event Coordinator, Chief Guest and Resource Person, Prof.R S Ananda Murthy, Associate Professor and former Head(Retd), JSS Science and Technology University, Mysuru, Dr.L Basavaraj, Principal, ATME College of Engineering, Mysuru, Dr.Parthasarathy L, Head, Department of Electrical and Electronics Engineering



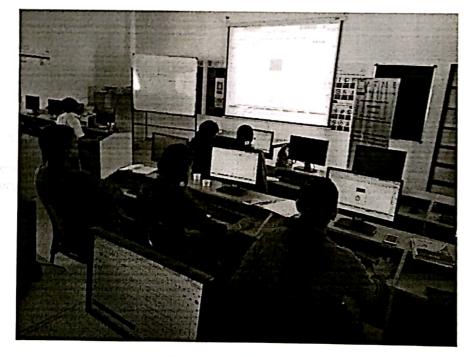
EEE_R19_2018_19_ODD_SSR



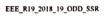




Pic: Participants Group Photo

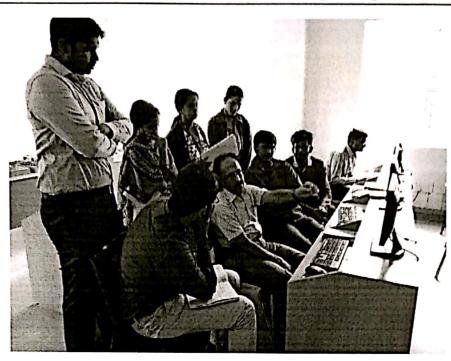


Pic: During the FDP session









Pic: During the FDP session

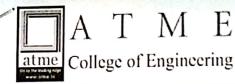
Dr. PARTHASARATHY L. Professor and HOD Dept. of Electrical & Electronics Enginee:ing ATME College of Engineering, Mysuru



EEE_R19_2018_19_ODD_



Project Engineer KREDL, Mysuru.





Date:30-7-2018

Report on Faculty Development Programme

Lighting, Hot Water Pumping System, Electrical Systems and HVAC

Summary:

Four days Faculty development programme was successfully conducted in the GSSS Institute of Technology on 25th – 28th July 2018 by Department of Electrical & Electronics Engineering. The FDP programme received an overwhelming response with more than 50 participants. During the Specialized Certificate Training Programme various related subtopics were discussed in detail by eminent educationists and a very beneficial academic environment was experienced by the participants. The participants were all among from Electrical & Electronics, Computer Science, Mechanical, Civil and Architecture domains.

Day I(25-7-2018)

Session I : a.Registration, Welcome & Introduction by KREDL. b.Lighting system Session II : a.Hot water system b.Hot water system in ECBC compliance.

The FDP was started on 25th July 2018 with the Solar Lamp Lightening ceremony followed by Lord Ganesh Vandana. The dignitaries were welcomed by the Principal Dr. Shivakumar M and HOD (Dept., of EEE Dr.S Vagdevi . Dr.S Vagdevi gave a warm welcome speech and introduced the Project Engineer Mr. Dinesh Kumar D K from Karnataka Renewable Energy Development Programme(KREDL) who had taken initiative for organizing this programme called Specialized Certificate Training Programme on 'Energy Conservation Building Code' co sponsored by Govt., of Karnataka. Mr.Dinesh Kumar introduced the Resource person Mr.Kuldeep Singh and provided an insight on the various challenges associated with Energy conservation in present scenario. Resource person Mr.Kuldeep Singh The technical session was followed by lunch. Fore noon the

EEE_R19_2017_18_ODD_SSR

Scanned by CamScanner





Department of Electrical and Electronics Engineering

session was completely taken over by topics such as lighting system, Hot water system and ECBC compliance to it through slide presentation.

Day II(26-7-2018)

Session I:

a.Service hot water requirement & pumping-code compliance through hot water design and pumping system for building (Discussion)

b.Electrical power- code compliance through efficient power distribution system design for building.

Session II:

a.Lighting-code compliance through efficient lighting system design for building.

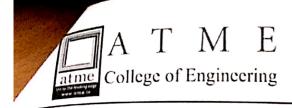
On second day of technical session, the resource person and participants started with exchange of ideas on the issues concerning the compliance of ECBC in lighting system. It was also discussed the necessity & requirement of scenario and how research activities can be carried out by external with limited resources about energy utilization. Technical talk was rendered on topics of hot water pumping and lighting compliance to ECBC.

Day III(27-7-2018)

Session I: Karnataka Renewable Energy Development Ltd (KREDL) Session II: a.Heating technology design for building b.Ventilation code compliance through HVAC system

On day three, another resource person was introduced i.e., Mr. Shivakumar Batra. Session continued with topics related to Heating, Ventilation and Air conditioning technology. The types of Airconditioning and early methods of air cooled system were discussed by resource person. It was also discussed the minimal basic criteria for any building to go with ECBE compliance with respect to Heating, ventilation & Air conditioning and discussed with statistical data the advantage of ECBE complied building that help energy conservation.

EEE_R19_2017_18_ODD_SSR





Department of Electrical and Electronics Engineering

Day IV(28-7-2018)

Session I : a.Role of Temperature and Humidity b.ECBC compliance air conditioning c.Site Visit ISHRAE Lab. Session II: a.HVAC system coordination tips and simulation b.Exercises Quiz prize distribution followed by feedback.

On day four the morning session was addressed by Mr. Shivakumar Batra where he talked about public responsibility in energy conservation. Site visit was scheduled to Vidya Vardhaka College of Engineering. Thereafter Indian Society of :Heating Refrigerating and Air conditioning Engineers(ISHRE) lab was introduced and given a demo on equipments related to Air conditioning, various questions were raised by participants which made the discussion very likely. Post lunch the last session of the FDP i.e. the valedictory session was held. Exercise quiz, feedback from participants were conducted. Certificates were distributed and votes of thanks were provided by faculty members.

SARATHY Ur. PAR Professor and HOD Dapt. of Electrical & Electronics Engineering ATME College of Engineering, Mysuru

EEE_R19_2017_18_ODD_SSR





Certificate

This is to certify that

Mr./Ms./Mrs.

SWAPNA H

of

ATME

College

has participated in the Three day Faculty Development

Programme on "GNU Linux Operating System

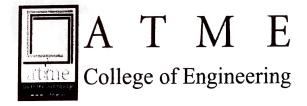
in Electrical and Electronics Engineering" from

10th to 12th January 2019

Dr. L Basavaraj Principal ATME College of Engineering

Dr. Parthasarathy L Head, Dept. of EEE ATME College of Engineering

Prof. R. S. Ananda Murthy Associate Professor & former Head (Retd.), Dept. of EEE JSS Science and Technology University





Certificate

This is to certify that

Mr./Ms./Mrs.

LARIA SUSHMA S

of

ATME

College

has participated in the Three day Faculty Development

Programme on "GNU Linux Operating System

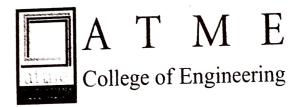
in Electrical and Electronics Engineering" from

10th to 12th January 2019

Dr. L Basavaraj Principal **ATME College of Engineering**

Dr. Parthasarathy L Head, Dept. of EEE **ATME College of Engineering**

Prof. R. S. Ananda Murth **Associate Professor** & former Head (Retd.), Dept. of EEE **JSS Science and Technology University**





Certificate

This is to certify that



of



_ College

has participated in the Three day Faculty Development

ATME

Programme on "GNU Linux Operating System

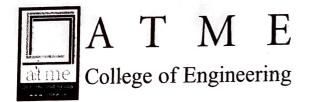
in Electrical and Electronics Engineering" from

10th to 12th January 2019

Dr. L Basavaraj Principal ATME College of Engineering

Dr. Parthasarathy L Head, Dept. of EEE ATME College of Engineering

Prof. R. S. Ananda Murthy Associate Professor & former Head (Retd.), Dept. of EEE JSS Science and Technology University





Certificate

This is to certify that

Mr./Ms./Mrs.

of

ATME

JOOJA M

_ College

has participated in the Three day Faculty Development

Programme on "GNU Linux Operating System

in Electrical and Electronics Engineering" from

10th to 12th January 2019

Dr. L Basavaraj Principal ATME College of Engineering

Dr. Parthasarathy L Head, Dept. of EEE ATME College of Engineering

Prof. R. S. Ananda Murthy Associate Professor & former Head (Retd.), Dept. of EEE JSS Science and Technology University





Certificate

This is to certify that

SANJAY S

Mr./Ms./Mrs.

of

ATME

College

has participated in the Three day Faculty Development

Programme on "GNU Linux Operating System

in Electrical and Electronics Engineering" from

10th to 12th January 2019

avarai Principal **ATME College of Engineering**

Dr. Parthasarathy L Head, Dept. of EEE ATME College of Engineering

Prof. R. S. Ananda Murthy Associate Professor & former Head (Retd.), Dept. of EEE JSS Science and Technology University



December 21, 2018

CERTIFICATE

This is to certify that Dr. Rathnakar.G of ATME College of Engineering, Mysuru has participated in the Faculty Development programme on Entrepreneurship organized by Manipal Universal Technology Business Incubator (MUTBI), Manipal Institute of Technology (MIT) and T. A. Pai Management Institute (TAPMI). FDP has been held at MUTBI and TAPMI during 10 - 21 December 2018 with the support of National Science & Technology Entrepreneurship Development Board, Department of Science & Technology, Government of India & Entrepreneurship Development Institute of India, Ahmedabad.

.

Dr. Y Shrihari Upadhyaya Chief Executive Officer



Malnad College of Engineering, Hassan – 573 202 (An Autonomous Institution under VTU, Belagavi)



Department of Mechanical Engineering (UG Programme accredited from Aug. 2017 to June 2020 by NBA - New Delhi)

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-III)

CERTIFICATE

This is to certify that Prof./Dr./Sri/Smt DEVRAJ M.R. of ATMECE, MYSURU has participated in the TEQIP-III Sponsored One Week Faculty Development Programme on "Research Opportunities and Challenges in Advance Materials and Manufacturing" a Twinning Programme organized with Jorhat Engineering College, Jorhat, Assam, from 17th to 22nd December 2018.

Dr. Ehzil Vannan

Coordinator

C. V. Venkatesh

Professor & Head Coordinator

Dr. K. S. Jayantha

Dr. K. S. Jayantha Principal













Malnad College of Engineering, Hassan – 573 202 (An Autonomous Institution under VTU, Belagavi)



Department of Mechanical Engineering (UG Programme accredited from Aug. 2017 to June 2020 by NBA - New Delhi)

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-III)

CERTIFICATE

This is to certify that Prof./Dr./Sri/Smt SURESH KUMAR S. of ATMECE, MYSURU has participated in the TEQIP-III Sponsored One Week Faculty Development Programme on "Research Opportunities and Challenges in Advance Materials and Manufacturing" a Twinning Programme organized with Jorhat Engineering College, Jorhat, Assam, from 17th to 22nd December 2018.



Coordinator

Professor & Head Coordinator

B----

Dr. K. S. Jayantha Principal





Malnad College of Engineering, Hassan – 573 202 (An Autonomous Institution under VTU, Belagavi)



Department of Mechanical Engineering (UG Programme accredited from Aug. 2017 to June 2020 by NBA - New Delhi)

TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME (TEQIP-III)

CERTIFICATE

This is to certify that Prof./Dr./Sri/Smt MANJUNATHA H. S. of ATMECE, MYSURU has participated in the TEQIP-III Sponsored One Week Faculty Development Programme on "Research Opportunities and Challenges in Advance Materials and Manufacturing" a Twinning Programme organized with Jorhat Engineering College, Jorhat, Assam, from 17th to 22nd December 2018.



Dr. Ehzil Vannan S

Coordinator

Professor & Head Coordinator



Principal



Faculty Development Programme at MALNAD COLLEGE OF ENGINEERING, HASSAN

Malnad College of Engineering, Hassan organized faculty development programme by inviting eminent personalities from different premier institutes and research organizations across India in view of enlightening the teaching fraternity particularly in the field of Advanced materials- Manufacturing, research opportunities and challenges.

Three staff members from the department of mechanical engineering attended this Faculty development programme on "Research Opportunities and Challenges in Advance Materials and Manufacturing" held at MALNAD COLLEGE OF ENGINEERING, HASSAN between 17th and 22nd December 2018.

Day-1: Morning Session-17-12-2018

Dr.Ravikumar N V, Professor from IIT Madras delivered a lecture on Challenges in Materials research in the Aerospace, Automotive and semiconductor industries.

Speaker expressed about some of the desirable characteristics of the high temperature structural materials that, they should have high thermal stability (>1500°C), oxidation resistance, chemical stability, high fracture toughness, thermal shock resistance and good creep properties.

Professor also expressed about the oxide and non-oxide ceramics are alternative or substitute for Ni based super alloys. Highlighted the importance of research work in the field of ceramics particularly production of silicon carbide fibers. They also touched upon heat sinks and its applications.

Professor also hinted on challenges in materials research particularly in the field of aerospace and automotive industries.

Afternoon Session: -17-12-2018

Mr.P.Srinivasa Rao, Deputy General Manager from ISRO, Bangalore gave a talk on "Advanced Joining Process-Friction Stir welding". During his speech on advanced joining processes particularly on friction stir welding, expressed the advantages and limitations of this process on both ferrous and nonferrous based materials also expressed about the importance of jigs and fixtures for different shapes and sizes of the work pieces. Problems associated with set up time and requirement of additional devices clamps and supports for welding thin sections. Highlighted the dynamic recrystallization that takes place and strain maps developed during the process. Speaker expressed about the advantages and suitability of this process for ferrous based materials.

Day-2: Morning Session-18-12-2018

Dr.Dillibabu Vijay kumar, Scientist-F GTRE, Bangalore discussed case studies – challenges on

Case Study-1:

- Nickel-Steel interface [welding of dissimilar materials]
- Casting-forging interface [joining/fixing components obtained from different manufacturing methods]
- High rotational speed [sustainability/dimensional stability at high RPM]
- Fail free operations.
- Geometrical requirements [Geometrical dimensioning and tolerancing]
- Weight and space constraints

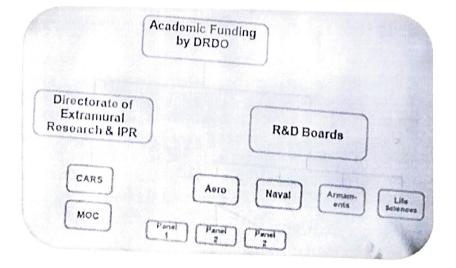
Case Study-2:

Challenges on:

- Complex design: 3D Bends [from different axes]
- Creating Convergent-Divergent internal passages to the component.
- Limitations of conventional machining.
- Drawbacks of investment castings- long lead time.

Also spoke about machinability studies on 5 axis CNC machines and its versatility in machining complex geometries and profiles in addition to research opportunities in 3D printing technology.

Academic funding opportunities at DRDO:



Afternoon Session: -18-12-2018

Mr.Mohan [Director from ISRO—Retd] spoke on "An overview of Non-destructive test methods for aerospace applications". Typical materials used in aircraft and appropriate NDT tests for various parts like Dye penetrant test, Flaw detection test, magnetic particle inspection, radiography and ultrasonic inspection.

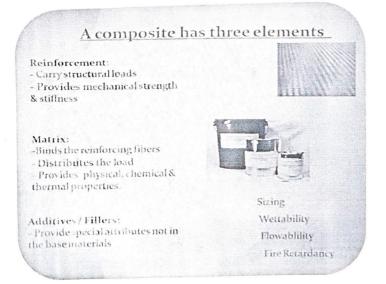
Day-3: Morning Session-19-12-2018

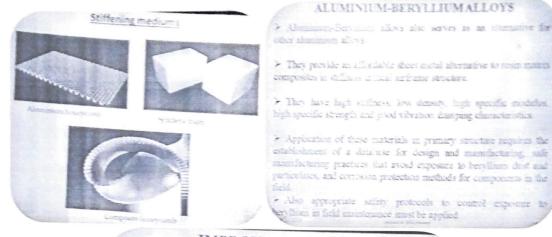
Dr.Chandan Srivastava, Associate professor, IISC, Bangalore gave a lecture on "Application of electron Microscopy Technique for Material characterization".

Speaker demonstrated on scanning electron microscope (SEM) clarified about magnification and resolution chosen while taking images. Magnification is nothing but is the ratio of length of camera pixel to the length on the sample pixel. Advised keeping 20KV is better while taking images from SEM. Professor also advised to refer some of the books on SEM. That are, SEM- by J J Goldstein and Scanning electron Microscopy & X-ray micro analysis – by J J Goldstein.

Afternoon Session: -19-12-2018

Dr.Bharath K Scientist, NAL spoke on "Advanced Materials and Methods in modern Aerospace Industries". Talked to advanced materials and processes for aircraft industries. While explaining they said that the delta wing combination provides more support to lift the plane. Generally these wings will be provided to fighter jets. Vertical and horizontal stabilizers are provided to air crafts. Also expressed on materials in propulsion system, evolutionary improvement in Aluminium alloys for aircraft. Briefed on autoclave technique and other forming processes including tooling field to form Stair part, cowl, and aircraft belly etc., Titanium base alloys used to make landing gears, structure of fuselage, making contour on skin stringer assembly and also explained on creep age forming process, machining and laser bending.





IMPROVED AL BASE MATERIALS FOR NEWER SYSTEMS

The Airbus A380 is the largest commercial aircraft ever built and requires the introduction of advanced and new materials combined with new manufacturing technologies.



IMPROVEMENT IN TIALLOYS FOR AIRCRAFT ENGINES

- To alloys make excellent materials for the cooler portions of auterial engines. Especially in the fair, where the stresses on the disk are very high, it is essential to use premium quality. To alloys.
 The fair disk is typically a large, single-piece forging. It is
- beneficial to use a higher strength alloy for the fan disk and the two most common alloys (in addition to Ti-6-4) are Ti-5Al-22r-28n-4Cr-4Mo (Ti-17) or Ti-6Al-28n-4Zr-6Mo (Ti-6-2-4-6)

Forged and machined II alloy fa



Day-4: Morning Session-20-12-2018

Mr.C R Satya from **ISRO** [TATA advanced Materials Ltd-Group] eminent speaker topic on engineering applications of advanced polymer composites and research opportunities. Delivered on characteristics of various matrix and reinforcement materials. During his speech emphasized on additives and fillers which provides special attributes which are not in the base materials like wettability, sizing, flowability and fire retarding etc.,

Bridges made of composites for army plots, flooded areas and natural calamities. Speaker briefed the characteristics of various fibers like carbon, graphite, boron, Kevlar and glass fibers. Mention the application of Kevlar fibers are used to make pressure vessels which are used at launch vehicles and satellites. Radio frequency property is more in graphite than in carbon because graphite is a purified form of carbon. In defense, battle tanks are made out of hybridized composites used at battle field.

Afternoon Session: -20-12-2018

Dr.Praveen C Ramamurthy Professor, IISc Bangalore, spoke on "Polymer electronics: Issues and challenges" briefed on photovoltaic and sensors and expressed about molecular, material and device architecture.

Day-5: Morning Session-21-12-2018

Dr.Satish Vasu Kailas, Professor from IISc Bangalore worked on surface interaction during friction stir process [FSP] in his laboratory at IISc. Speaker expressed about the strain hardening index 'n', higher the value of 'n' higher will be the ductility. During his speech expressed the FOS is the ratio of yield stress to the design stress.

Speaker said, Research activity involves knowledge assimilation, analysis, hypothesis, design of experiments, look for results, deviations from the expected results and learn something.

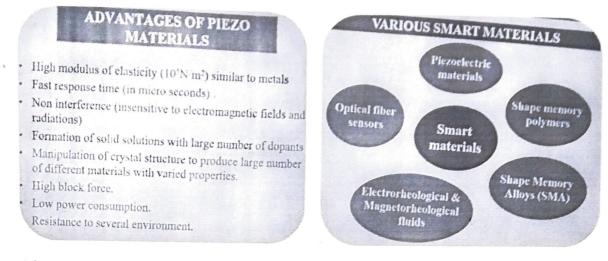
Afternoon Session: -21-12-2018

Dr. Murthy H S N Professor, IIT Madras [Chennai], gave a talk on 'Fretting and Fretting fatigue related issues in advanced materials'.

During their speech expressed the different types of fatigue loading on the components and various factors responsible for their failure during the service.

Day-6: Morning Session-22-12-2018

Dr. P K Panda Chief Scientist, spoke on Piezo- Ceramic Smart Materials and their role in the field of aerospace applications including ceramic and Nano fibers. Also briefed on characteristics of lead magnesium niobate material and lead free piezo material. During their speech expressed that the high Curie temperature materials used in gas turbine engines in aerospace applications. Expressed the advantages of Piezo materials:



Afternoon Session: -22-12-2018

Valedictory function conducted in the afternoon session which is followed by issue of certificates and feedback about the programme.

We would like to express our sincere thanks to our HOD Dr. Rathnakar G and our beloved principal Dr. L.Basavaraj for granting the permission to participate in this fruitful event.

('Ball'

H.O.D. Department of Mechanical Engineering ATME College of Engineering, Mysuru

| AICTE | ISTE NUT |
|--|--|
| Certifica | ate |
| | |
| This is to certify that Mr./Ms Yathisha N. | |
| | |
| has successfully completed AICTE-ISTE approved | Induction/Refresher Programme |
| has successfully completed AICTE-ISTE approved Design of Machine Elements | Induction/Refresher Programme " held during |
| Design of Machine Elements | |
| Design of Machine Elements | " held during |
| Design of Machine Elements 2/7/2018 to 7/7/2018 Organized by Vidyar | " held during |
| Design of Machine Elements 2/7/2018 to 7/7/2018 Organized by Vidyar | " held during |

A brief report of FDP on Design of Machine Elements-2018 at Vidyavardhaka College of Engineering Mysuru

Day 1: 20-07-2018

8.30-9.15: Registration and Breakfast

9.15-10.00: Inauguration

10.00- 11.30: Key Note Address

Speaker: Mr Sridhar Gupta.

Topics Covered: Design of Machine elements - Industry perspective.

There is a need to perform some useful work. Within the scope of the first stage we have to identify the problem, i.e. determine the external load, limitations in terms of geometry, manufacturing methods, etc. (design specifications).

In certain fields of technology (hydraulics, electronics) it is possible to find and apply an algorithm of the solution finding process. It is more difficult in mechanical engineering, though some attempts have been done, especially in the Theory of Machines and Mechanisms. Certain complex problems call for an inter-disciplinary co-operation. The brainstorming approach has been widely known and employed in practice. In most cases, however, new solutions grow on old ones. We rely on our experience, observations and common sense. At this stage the solution must be free hand sketched or by using simple drawing conventions. It must be viable from the point of view of kinematics!

Session 1: 11.30 – 1.00

Speaker: Dr.D V Girish.

Topics Covered: Fundamentals of Mechanical Engineering design

Mechanical engineering is the discipline that applies engineering, physics, engineering mathematics, and materials science principles to design, analyze, manufacture, and maintain mechanical systems. It is one of the oldest and broadest of the engineering disciplines.

Mish "

Page 1 of 4

- Effective technical skills.
- The ability to work under pressure.
- Problem-solving skills.
- Creativity.
- Interpersonal skills.
- Verbal and written communication skills.
- Commercial awareness.
- Team working skills

1.00 - 2.00: lunch Break

Session 2: 2.00 - 5.30

Speaker: Dr. C V Venkatesh

Topics Covered: Design for Impact and Fatigue loads, Lubrication and Bearings.

In materials science, fatigue is the weakening of a material caused by repeatedly applied loads. It is the progressive and localized structural damage that occurs when a material is subjected to cyclic loading. A common type of structural analysis problem results from an impact load. The impact could be caused by a weight falling on the design object or possibly from the design object falling and striking a hard surface. The Role of Bearing Lubricant. Bearing Lubrication plays a vital role in the performance and life of rolling element bearings. The most important task of the lubricant is to separate parts moving relative to one another (balls or rollers and raceways) in order to minimize friction and prevent wear.

Day 2: 03-07-2018

Session 1: 9.30 - 11.00

Speaker: Dr. Suresh Bheemapa

Topics Covered: Design of joints and couplings.

A coupling is a device used to connect two shafts together at their ends for the purpose of transmitting power. Couplings do not normally allow disconnection of shafts during

operation, however there are torque limiting couplings which can slip or disconnect when some torque limit is exceeded.

Session 2: 11.30 – 1.00

Speaker: Dr. Keethi Prasad

Topics Covered: Belts ropes and chain drives

The belts or ropes are used to transmit power from one shaft to another by means of pulleys which rotate at the same speed or at different speeds. The amount of power transmitted depends upon the following factors: 1. The velocity of the belt. 2. The tension under which the belt is placed on the pulleys. 3. The arc of contact between the belt and the smaller pulley. 4. The conditions under which the belt is used.

1.00 – 2.00: lunch Break

Session 3: 2.00- 3.30

Speaker: Dr. S L Ajith Prasad

Topics Covered: Design of Threaded and Fasteners.

fasteners are used to create non-permanent joints; that is, joints that can be removed or dismantled without damaging the joining components. Welding is an example of creating permanent joints. There are three major steel fasteners used in industries: stainless steel, carbon steel, and alloy steel.

Session 4: 4.00- 5.30

Speaker: Dr. G B Krishnappa

Topics Covered: Flexible machine elements.

Flexible mechanical elements such as belts, chains and wire ropes are widely used in industrial applications. They are mainly used to transmit power, to increase or decrease speed or torque, and they are used in conveying systems. They can be used to transmit power over relatively long distances.

Day 3: 04-07-2018

Session: 9.30 – 05.30

Speaker: Dr. B K Sridhar

Topics Covered: Design of Gears.

Dr. B K Sridhar, Professor, NIE, Mysuru, delivered a talk on Design of Gear Drives by using Balaveera Reddy Data hand Book. In his topic he explained the basic Concepts of gears & design procedure for all the Gears.

Day 4: 05-07-2018

Session 1: 9.30 - 01.00

Speaker: Dr. G C Mohan Kumar

Topics Covered: Design of Clutches and Brakes.

A **clutch** is a mechanical device which engages and disengages power transmission especially from driving shaft to drive shaft.

A **brake** is a mechanical device that inhibits motion by absorbing energy from a moving system.^[1]It is used for slowing or stopping a moving vehicle, wheel, axle, or to prevent its motion, most often accomplished by means of friction.

Session 2: 2.00 - 5.30

Speaker: Mr. Kasturirengan

Topics Covered: Art of Living.

Mr. Kasturirengan explained the way of living and how to have happy life throuhout

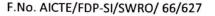
Day 5: 06-07-2018

Exam was conducted from 9:30 to 11:30 and the above said topics and then followed by Valedictory Session and Certificate presentation

alli 1

H.O.D. Department of Mechanical Engineering ATME College of Engineering, Mysuru

Page 4 of 4



2018-19



ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Prof. Thejkumar J from Atme College Of Engineering, Mysuru has participated and successfully completed 3-days "Faculty Development Program for Student Induction (FDP-SI)" during 24-26 June , 2019 at VTU , Belagavi organized by All India Council for Technical Education (AICTE).

Prof. Rajeev Sangal Chairman National Coordination Committee for Induction Program

Prof. Rajive Kumar Adviser-I, AICTE





Department of Mechanical Engineering

Report on "Faculty Development Program for Student Induction (FDP-SI)" during 26-28 June 2019 at Visveswaraya technological University, Belagavi organized by All India Council for Technical Education (AICTE).

Brief History about inception of UHV

As per the discussion held on 49th meeting of Council held on 14th March 2017, Three Weeks Induction Program is made mandatory. Accordingly, a three-week mandatory induction program for students has been designed. Induction Program is to be offered right at the commencement of the first year and classes will begin only after student Induction program is over. Main Purpose behind this initiative is to make the students feel comfortable in their new environment, set a healthy daily routine, create bonding in the batch as well as between faculty and students. The student induction program is now a part of the model curriculum of Undergraduate Studies in Engineering & Technology launched by Hon'ble Minister of HRD during a conference on 'Quality Initiatives in Technical Education' on 24th January 2018 at AICTE, New Delhi. It has already been requested to all universities/institutions to adopt the model curriculum from the academic session 2018-19.

Why FDP-SI

Education is for developing the students' full human personality, so that they are able to participate meaningfully not only in their profession, but also in their family, society and their natural environment – ultimately leading to a society that is just and equitable. Every commission on education has articulated the need for human values in education.

In this regard AICTE is articulated to conduct three weeks of Induction Program to students who are Newley joined to the technical Education Institutes.

It is of utmost importance that the faculty members/teachers are well equipped and prepared to conduct the SIP. The core of SIP is Universal Human Values module. It must be delivered by the faculty members from the respective branch/discipline of the student group. Appropriate FDPs have been designed and are being organized for preparing faculty members.

The following Faculty development Programs (FDPs) are being conducted throughout the country for this with the support from AICTE HQ and Regional Offices:

• 3-day FDP-SI (UHV) or 5-day online UHV FDP - Orientation to UHV for SIP

• 7-day UHV FDP – Details of UHV, essential for qualifying to teach UHV-I or UHV-II

In this regard A 3-day FDP-SI is organized at Visveswaraya Technological University, Belagavi organized by All India Council for Technical Education (AICTE) from 26-28 June 2019.

The Program is coordinated and conducted by the resource person Sri. Sajeev Chopra. Sir is eminent scholar and engineer by profession and worked at various levels at ISRO control centre Hasan. Sir is practicing UHV by Jeevan vidya from many years and was a renowned speaker and conducted many workshops on Jeevan vidya based UHV.





Department of Mechanical Engineering

The program is Inaugurated by Honourable vice chancellor Prof. Karisiddappa. In his inaugural address VC told that VTU one among the few Universities which readily agreed and following AICTE modern curriculum. Also, He insisted that all the Engineering Colleges affiliated to VTI will practice and follow the guidelines laid y AICTE in the effective implementation of UHV in their respective colleges.

In day 1, the resource person Sri Sanjeev Chopra gave the importance of the UHV and its implementation in the Engineering Colleges. The video presentation by Rajeev Sangal was displayed in the beginning of the Session.

Later, the session is continued with discussion about the problems associated in the present society and human living and the reasons behind it. Sir has described the four orders in universe and their inter relationship. How human existence is threatening and exploiting the other four levels of the universe. Sir has also described the UHV is based on co-existential philosophy.

Later in the afternoon, the discussion is moved on to the human being as co-existence of the Self and body. Also, the needs of the body and self were listed on the board. All the participants were concluded that the human bodily needs are finite and Self needs are infinite.

In Day 2, started with understanding the terminology or meaning of words and their right usage in universal Human values. Such as Price & Value, Body & Self etc.,

The existence of the human is to live happily. It's the need of the self and basic aspiration of the human being is to live happily. This is possible only when the human living is lives with harmony with in knowledge order and other orders of the universe.

In day 3, the session is started with Harmony in the family. The various aspects which contribute to the harmony were discussed during the session. Also, later the Discussion is moved unto the Value system. Sir Discussed few important Values out of the 28 values in the UHV. Behavioural values like Respect, Trust, Gratitude, affection and Care are discussed.

Before Concluding the session, sir also, touched upon the behavioural aspects of human conduct.

The valedictory function chaired by Honourable VC Sri. Karisiddappa Sir and Registrar Prof. Annagere. Participants given their feedbacks and resource person is thanked by all the participants and felicitated by the VTU.

(THESKUMAR.S)





Department of Mechanical Engineering



Inauguration of 3 Day FDP-SI at VTU, Belagavi



Participants from ATME: Prof. Thejkumar J, Sri. Sanjeev Chopra (resource person), Prof. Priyamka B, Prof. Bharathi

| NOF Read | @ @ · @ @ · @ @ · @ @ · | | ≫ œ œ œ œ œ œ 0109 |
|--|--|-----------------|---------------------------------------|
| AICTE | Certifi | icate | ISTE ISTE |
| | | | |
| This is to certify th | at Mr/Ms Karthik Kum | iar M. | |
| The is to certify th | at 1411./1415. | | |
| · | completed AICTE-ISTE app | roved Induction | /Refresher Programme |
| has successfully | | roved Induction | /Refresher Programme " held during |
| has successfully | completed AICTE-ISTE app achine Elements | | |
| has successfully " Design of Ma 2/7/2018 | completed AICTE-ISTE app achine Elements | | " held during |
| has successfully " Design of Ma 2/7/2018 | completed AICTE-ISTE app achine Elements to <u>7/7/2018</u> Organized by | | " held during |
| has successfully " Design of Ma 2/7/2018 | completed AICTE-ISTE app achine Elements to <u>7/7/2018</u> Organized by | | " held during |