



# CMR COLLEGE OF ENGINEERING & TECHNOLOGY

An Autonomous Institution with NAAC Accreditation (A Grade)  
\*Approved by AICTE \*Permanently affiliated to JNTUH \*NBA Accreditation  
Kandlakoya (V), Medchal Road, Hyderabad -501401.

## CIVIL

CMR College Of Engineering &Technology, Civil Department has Organized 6 Programs During Academic Year 2018-19.The Detailed and Schedule of The Programs are listed below :

s.no	Name of the event	date	venue	Resource person
1	I concept	21.12.18- 22.12.18	Cmrcet auditorium	Dr.N.Darga kumar Dr.P.N.Rao Dr.Vinayagamoothy sivakumar
2	Autodesk Revit Architecture	29.04.19- 03.05.19	CADD LAB	K.Kalyani
3	Adoption of FOSS for effective teaching and learning in civil engineering	18.06.18- 23.06.18	Cmrcet auditorium	Dr.Vijayababu Dr. L.Prathap Reddy
4	Orientation program on autonomy in higher education	12.07.18- 14.07.18	Cmrcet auditorium	Dr.K.Narsimha Reddy Dr.A. Chandrashekar reddy Dr.G.K.Vishwanath
5	Hands on training to operate fire extinguisher	15.03.19- 17.03.19	Civil Seminar Hall	Sindhu Safety Engineers
6	Workshop on soil sampling & testing	27.09.18- 29.09.18	Civil Seminar Hall	Dr.K.Suresh A.P.Ravichandra K.S.V.Praveena

### I-CONCEPT

The function started with Invocation Song, followed by the welcome speech given by **Dr K. Suresh**, HOD, CIVIL. Inaugural Function was addressed by the **Dr.N.Darga kumar**,

It is a first International Conference conducted by Civil Engineering Department.They were number of faculties participated and registered from other universities and colleges. Faculties from CMRCET also had published there papers in this program. And it had a grand success. Secretary Sir and Principal Sir appreciated civil department for this program.

### AUTODESK REVIT ARCHITECTURE

The function started with Invocation Song, followed by the welcome speech given by **Dr K. Suresh**, HoD, CIVIL. Inaugural Function was addressed by the Guest **Amaranth**.

In this one week Revit 2019 Architectural Course, faculty gain enough knowledge in Revit Basics to start main 2 story house Model and learn by actually Creating Complete 2d and 3d Model of a House.

### ADOPTION OF FOSS FOR EFFECTIVE TEACHING AND LEARNING IN CIVIL ENGINEERING

This FDP aims to provide opportunities to faculty members, research scholars and post graduate students who are teaching various disciplines of science and engineering subjects in colleges and Universities to



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enrich their teaching and learning skills. There were 25 number of participants reregistered for this programme from different Universities and Colleges.

Resource Persons from reputed academic institutions like IIT Hyderabad, HCU,NITW,JNTUH, FSMI and SWECHA & family having expertise in the different relevant areas related to the programme deliver the lectures in this Faculty Development Programme.

## ORIENTATION PROGRAM ON AUTONOMY IN HIGHER EDUCATION

Dr. K.Suresh, HOD of Civil welcomed all the respected dignitaries and participants. The Inaugural was addressed by the Guest Dr.K.Narsimha Reddy Professor, Dr.A. Chandrashekar reddy,Professor.In his address he stressed about the importance of Higher Education among the participants. All the respected members on the dignitaries also graced the inaugural function of the programme. The need for autonomy in higher education arises on the ground of academic expansion,excellence and innovations.

### HANDS ON TRAINING TO OPERATE FIRE EXTINGUISHER

A three days Administrative training programme on “Hands on training to operate fire extinguisher” was collaboratively organized by CMR College of Engineering & Technology. The programme was held at the Civil Seminar hall, Room No 126, Block -II of CMR College of Engineering & Technology, from 15.03.19-17.03.19.This ATP aims to provide opportunities to faculty members and lab assistant how to operate in live emergency situations. There were 20 number of participants reregistered for this programme from different Universities and Colleges.

They had explained about individual component of fire protection system as well as how to react in the event of an emergency.

## WORKSHOP ON SOIL SAMPLING & TESTING

A three days Administrative training programme on “Workshop on soil sampling & testing” was collaboratively organized by CMR College of Engineering & Technology. The programme was held at the Civil Seminar hall, Room No 126, Block -II of CMR College of Engineering & Technology, from 27.09.18-29.09.18. The lecture given by Dr.K.Suresh HOD and Professor of civil department about the soil and its texture was excellent.by this ATP programme faculty and lab assistant came to know that soil testing is an essential component of soil resource management . each sample collected must be a true representative of the area being sampled.

## Faculty Development Programme On AUTODESK REVIT ARCHITECTURE at

CMR College of Engineering & Technology

A one week **FACULTY DEVELOPMENT PROGRAM** on ‘**AUTODESK REVIT ARCHITECTURE**’ was held on 29<sup>th</sup> APRIL 2019 to 3<sup>rd</sup> May 2019.The programme was organized by CMR College of Engineering & Technology In collaboration with ICT Acadmey,Chennai..The Programme started on 29.4.2019 at 9.30,am with the formal Inaugural function at Civil Engineering Department, CADD LAB. The function started with Invocation Song, followed by the welcome speech given by **Dr K. Suresh, HoD, CIVIL**. Inaugural Function was addressed by the Guest **Amaranth**  
The resource person for this FDP is Mrs.Kalyani from ICT Academy. Around 16 Internal participants and 7 external participants from various colleges and universities were benefited from this FDP. In this



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one week Revit 2019 Architectural Course, faculty gain enough knowledge in Revit Basics to start main 2 story house Model and learn by actually Creating Complete 2d and 3d Model of a House. On 3.5.2019 the FDP was ended with a valedictory function proceed with certificate processing followed by vote of thanks.

**Report on  
Faculty Development Programme  
On  
ADOPTION OF FOSS FOR EFFECTIVE TEACHING AND LEARNING IN ENGINEERING  
at  
CMR College of Engineering & Technology**

A one week faculty development programme on "ADOPTION OF FOSS FOR EFFECTIVE TEACHING AND LEARNING IN ENGINEERING" was collaboratively organized by CMR College of Engineering & Technology and "SWECHA". The programme was held at the Auditorium, Room No 002, Block -II of CMR College of Engineering & Technology, from 18<sup>th</sup> June to 23<sup>rd</sup> June, 2018. This FDP aims to provide opportunities to faculty members, research scholars and post graduate students who are teaching various disciplines of science and engineering subjects in colleges and Universities to enrich their teaching and learning skills. There were 25 number of participants reregistered for this programme from different Universities and Colleges.

#### **INAUGURAL SESSION:**

The esteemed personalities present on the inauguration of the programme:

Dr.L. Pratap Reddy, Professor, ECE department, JNTUH,  
Major Dr.V.A. Narayana, Principal, CMRCET,  
Dr. N. Sathyanarayana, Director, Academics CMRGI,  
Dr. M.S.R. Murthy, Director, Research and Development, CMRCET,  
Dr. Lokeshwara Rao, Dean Academics, CMRCET,  
Dr. M. Sudhakar, Dean, Planning and Development, CMRCET,

Dr. K.Suresh, HOD of Civil welcomed all the respected dignitaries and participants. The Inaugural Address was addressed by the Guest Dr.L. Pratap Reddy, Professor, ECE department, JNTUH .In his address he stressed about the importance of on pedagogical aspects of FOSS in teaching among the participants. Dr.M.Swamy Das, Swecha Academic Chapter highlighted the activities of the programme. All the respected members on the dignitaries also graced the inaugural function of the programme.

Resource Persons from reputed academic institutions like IIT Hyderabad, HCU, NITW, JNTUH, FSMI and SWECHA & family having expertise in the different relevant areas related to the programme deliver the lectures in this Faculty Development Programme.

#### **VALEDICTORY SESSION:**

The honorable personalities present in this occasion are Dr.Vijaya Prabhu, Profssor JNTUH, Hyderabad, Dr.M.Swamy Das, Swecha Academic Chapter, Principal and all the deans of CMRCET . Dr.K.Suresh, Head of the Civil Department summarized the program. All the personalities appreciated the department for organizing the FDP. The program was ended with vote of thanks by Mrs. Praveena, Asst. Prof., Civil Dept., CMRCET & Coordinator of the FDP.

This Faculty Development Programme (FDP) fulfils its prime outcome to bring the faculty of different engineering, science and allied subjects onto one platform to update the importance of pedagogical



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aspects of FOSS, and also well equipped the participants with all the features of MOODLE as effective tool in Teaching and Learning.

**EEE  
(2018-19)**

**Report on  
One week FDP on "Recent Advancements in Electrical Engineering for Research"  
16-07-2018 to 21-07-2018**

Energy is the driving force behind all economic activities. Consequently the ever increasing population and associated energy requirements to meet the increasing living standard have become a matter of great concern. Solar technologies use the sun's energy to provide electricity, heat, light, hot water, and even cooling for homes, businesses, and industry. The aim of this FDP is to impart research skills to the researchers and teachers to improve the quality of research in the area of solar energy and its application.

This programme was brought a positive transformation among the faculty members towards research work and enables the participants to develop competence in understanding the recent advances in Electrical Engineering. In total there were 24 faculty member from various institutes benefited with this program.

There were 24 faculty member from our institute attended the program. All the participants expressed satisfaction about the course introduction.

**Report on  
One week Workshop on "Power Electronics using MATLAB"  
03-12-2018 to 08-12-2018**

This workshop focuses on power electronics based on a MATLAB/SIMULINK approach. This scenario was followed in the Electrical Engineering Department of the TEI of Crete in 2014 and students were asked to fill in a questionnaire after completing the class. The scenario was based on thyristor-based rectification and AC control, as prior approaches were based on the use of hardware and/or the simulation of such circuits in OrCAD/PSpice. Fourier/harmonic analysis through the use of MATLAB was added and students were encouraged to undertake projects focused on simulating other types of converters in SIMULINK to receive a passing grade.

The course's syllabus is mapped as follows:

- Matlab fundamentals:
- harmonics and Fourier analysis:
- Simulink fundamentals:
- Diode rectifiers:
- 1-pulse rectifier:
- 2-pulse rectifier:
- 4-pulse rectifier:
- 3-pulse rectifier:
- 6-pulse rectifier:
- AC controllers:

There were 24 faculty member from our institute attended the program. All the participants expressed satisfaction about the course introduction and felt that research problems can be formulated.

**Report on  
One week FDP on SMART GRID Technologies in Distribution System  
11-03-2019 to 16-03-2019**

The increasing importance of system reliability and resilience is changing the way distribution systems are planned and operated. To achieve a distribution system self-healing against power outages, emerging technologies and devices, such as remote-controlled switches (RCSs) and smart meters, are being deployed. The higher level of automation is transforming traditional distribution systems into the smart distribution systems (SDSs) of the future. The availability of data and remote control capability in SDSs provides distribution operators with an opportunity to optimize system operation and control. In this paper, the development of SDSs and resulting benefits of enhanced system capabilities are discussed. A comprehensive survey is conducted on the state-of-the-art applications of RCSs and smart meters in SDSs. Specifically, a new method, called Temporal Causal Diagram (TCD), is used to incorporate outage notifications from smart meters for enhanced outage management. To fully utilize the fast operation of RCSs, the spanning tree search algorithm is used to develop service restoration strategies. Optimal placement of RCSs and the resulting enhancement of system reliability are discussed.

Economic, political, environmental, social and technical factors have prompted the emergence of the smart grid concept. Distribution systems are arguably the element of power delivery infrastructures where smart grid technologies are likely to have the most significant impacts. The smart grid concept has driven the coordinated and integrated application of existing power, communications, control, and information technologies at distribution system level. Furthermore, it has impelled the development and implementation of new technologies, tools and approaches for optimizing the operation of distribution systems, empowering customers, and creating new products and services. Expectedly, all these factors have also contributed to the emergence of new issues and challenges. The objective of this FDP is to discuss and present novel applications of smart grid technologies on power distribution systems including integration of distributed energy resources, plug-in electric vehicles, distribution automation, and distribution system optimization.

There are several topics that were covered during FDP as follows:

- Wide-area monitoring and control involves real-time monitoring over the generation and transmission side and assist system operators for protection, control and automation through the power system network. Systems and software are used for decision making, to solve disturbances and to develop reliability.
- Information and communications technology integration means involvement of different communication devices for bilateral communication through different stakeholders. This integration results real time operation for more efficient controlling of the grid network.
- Renewable and distributed generation integration in the smart grid means the involvement of clean technologies. Renewable and distributed generation could be integrated with smart grid any point from generation to consumer.
- Transmission enhancement applications increase the reliability and security of the transmission network. Various technology and applications are used in transmission system. Flexible AC transmission systems (FACTS) devices could be used for better control and maximum power transfer, High Voltage DC (HVDC) technologies to attach offshore solar, wind to main grid, while High-temperature Superconductors (HTS) can help cut transmission losses.



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- Distribution grid management also increases the reliability and security of the distribution side. Real time monitoring through different technologies helps to manage fault location, adjust voltage level, power optimization, etc.
- Advanced metering infrastructure (AMI) replaces smart meter and can do bilateral communication by sharing information and data from consumer to utilities and vice-versa.
- Electric vehicle charging infrastructure involves several intelligent features for smart charging (grid-to-vehicle) when electricity demand is low.
- Customer-side systems involve regulating electricity for different prices and loads, distributed generation, efficient appliances, energy storage devices etc.

There were 21 faculty member from our institute attended the program. All the participants expressed satisfaction about the course introduction and felt that research problems can be formulated.



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## MECHANICAL

### **Report of the Faculty Development Programmes For Academic Year 2018-19 “Current Trends in Precision Engineering”**

Date:10/09/2018

The Faculty development programme on “Current Trends in Precision Engineering” held on 03-09-2018 to 08-09-2018. This Faculty Development Program is intended to bridge the gap between Research and Academics in Mechanical Engineering by comprehensively dealing the Current Trends in Precision Engineering. For Product design, influence of Geometry has a significant role. The FDP also deals with Theory of Inventive Problem Solving techniques as a tool for solving complicated problems of Engineering. This Faculty Development Program will provide the opportunities to flourish the Knowledge for the participants.

It is a one week training programme and was scheduled from 9.10am to 4.00pm for one week including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Programme provided various methods for Current Trends in Precision Engineering.

### **“Materials and Manufacturing Processes”**

Date:27/02/2019

The Faculty development programme on “Materials and Manufacturing Processes” held on 18-02-2019 to 23-02-2019. This Faculty Development Program is especially important in adapting faculty members to their changing roles in initiating and setting the directions for curricular changes. The major focus of the FDP is on upgrading the teaching, training, and research skills of faculty members. Emerging developments in Materials such as Metals, Super alloys, Ceramics and Composites. Current Trends in Manufacturing including quantitative treatment. Selection of materials using Performance Indices and Ashby charts. Surface Engineering Materials.

It is a one week training programme and was scheduled from 9.10am to 4.00pm for one week including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Programme provided various methods for Materials and Manufacturing Processes.

### **“Advances in Design and Manufacturing”**

Date:21/11/2018

The Faculty development programme on “Advances in Design and Manufacturing” held on 12-11-2018 to 17-11-2018. This Faculty Development Program is intended to bridge the gap between Research and Academics in Mechanical Engineering by comprehensively dealing the Advances in Design and Manufacturing. For Product design, influence of Geometry has a significant role. The FDP also deals with Theory of Inventive Problem Solving techniques as a tool for solving complicated problems of Engineering. This Faculty Development Program will provide the opportunities to flourish the Knowledge for the participants.

It is a one week training programme and was scheduled from 9.10am to 4.00pm for one week including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Programme provided various methods for Advances in Design and Manufacturing.

### **Teaching Practices in Thermal Power Engineering”**

Date:18/12/2018





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The Faculty development programme on **“Teaching Practices in Thermal Power Engineering”** held on 10-12-2018 to 14-12-2018. The Faculty Development Program is intended to bridge the gap between Research and Academics in Mechanical Engineering by comprehensively dealing the **Teaching Practices in Thermal Power Engineering**. The FDP also deals with Theory of Inventive Problem Solving techniques as a tool for solving complicated problems of Engineering. This Faculty Development Program will provide the opportunities to flourish the Knowledge for the participants.

It is a one week training programme and was scheduled from 9.10am to 4.00pm for one week including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Programme provided various methods for **Teaching Practices in Thermal Power Engineering**.

## **“Advance in Material Processing and Heat Treatment”**

Date:16/04/2019

The Faculty development programme on **“Advance in Material Processing and Heat Treatment”** held on 08-04-2019 to 13-04-2019. The Faculty Development Program is intended to bridge the gap between Research and Academics in Mechanical Engineering by comprehensively dealing the **Advance in Material Processing and Heat Treatment**. For Product design, influence of Geometry has a significant role. The FDP also deals with Theory of Inventive Problem Solving techniques as a tool for solving complicated problems of Engineering. This Faculty Development Program will provide the opportunities to flourish the Knowledge for the participants.

It is a one week training programme and was scheduled from 9.10am to 4.00pm for one week including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Programme provided various methods for **Advance in Material Processing and Heat Treatment**.

## **“Laboratory Instruction in material Testing ”**

Date:27/06/2019

The Training Program on **Laboratory Instruction in material Testing** held on 20-06-2019 to 22-06-2019. The Training Programme is intended to improve the skills of the participants . The Training Program also deals with Theory of Inventive Problem Solving techniques as a tool for solving complicated problems of Engineering. This Training Program will provide the opportunities to flourish the Knowledge for the participants.

It is a Three day training programme and was scheduled from 9.10am to 4.00pm for Three days including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Programme provided various methods for **Material Testings** .

## **“Maintenance of Engineering Workshop”**

Date:22/03/2019

The Training Program on **Maintenance of Engineering Workshop** held on 14-03-2019 to 16-03-2019 . The Training Program is intended to improve the skills of the participants . The Training Program also deals with Theory of Inventive Problem Solving techniques as a tool for solving complicated problems of Engineering. This Training Program will provide the opportunities to flourish the Knowledge for the participants.

It is a Three day training programme and was scheduled from 9.10am to 4.00pm for Three days including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Programme provided various methods for **Engineering Workshop** .

## **“Outcome Based Education (OBE) and NBA accreditation process”**

Date: 10/12/2018

The Faculty development programme on **“Outcome Based Education (OBE) and NBA accreditation process”** was held from 10-12-2018 to 14-12-2018. This Faculty Development Program was intended to



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make the participant understand the process of NBA accreditation process and let the audience expose to both program level and institution level criteria. The program included an emphasis on NBA SAR format, which entirely relied on objective based evaluation. Unlike other similar programs, this program reached the crest of NBA process.

It was a five-day training program and was scheduled from 9.10 AM to 4.00 PM for five days including lunch and tea snacks. The training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training program provided various methods for Outcome Based Education (OBE) and NBA accreditation process.

## **“Servicing, Maintenance and Use of Office Requirement Appliances”**

Date:10/10/2018

The Training programme on “Servicing, Maintenance and Use of Office Requirement Appliances” was held on 08-10-2018 to 10-10-2018. The prime objective of this training program was to enhance the technical knowledge of non-teaching staff by giving the comprehensive details of basic office use equipment and individual parts mounted on them. This training program will be helpful to enhance the office staff efficiency, job enrichment, technical knowledge of the employee, excellence in organizational work and, overall learning.

It is a Three day training program and was scheduled from 9.10am to 4.00pm for one week including lunch and tea snacks. The Training sessions were quite interactive in nature and included various points, which helped in traits. Overall the training Program was very knowledgeable and helpful for everyone as the contents of program proved this.

We thank to CMRCET for providing such an opportunity and we wish that we get such another opportunity in future to enhance excellence in organizational work and enhance overall learning.



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## ECE

The Department of ECE has conducted 6 Faculty Development Programmes and 4 Workshops and 2 Orientation programs for the year 2018-2019. All the programs was conducted under the chairmanship of Principal Major Dr. V. A. Narayana and the convenership of Prof. E.N.V. Purnachandra Rao.

A One Week Faculty Development Programme on **Applied Cryptography** was held during the period of 27th May to 1st June 2019, for which the allotted budget was Rs. 35000/-. The coordinators for this FDP are Dr. D. Vijaya Kumar Professor, Mr. G. Rajesh Kumar Asst.Professor of ECE Department. Mrs. B. Sruthi Kumari Engineer-I Automotive Robotics India Pvt. Ltd. Hyderabad was the main resource person and the total no. Of participants are 28.

A Two Week Faculty Development Programme on **Metaheuristic Optimization Algorithms in Engineering** was held during the period of 6th to 15th May, 2019, for which the allotted budget was Rs. 61000/-. The coordinators for this FDP is Dr. M. NagarajuNaik, Professor of ECE Department. Faculty of NIT Warangal and some reputed organizations were the main resource persons and the total no. Of participants are 71.

A One Week Faculty Development Programme on **Analog & Mixed Signal Design** was held during the period of 22nd to 27th, April, 2019, for which the allotted budget was Rs. 45000/-. The coordinators for this FDP are Dr. M. NagarajuNaik, Professor, ECE Department, MrB.Chakradhar, Asst.Professor, ECE Department Mrs. Dr.Joyeeta Singha, Asst.Professor,LNMIT Jaiperwas the main resource person and the total no. Of participants are 32.

A One Week Faculty Development Programme on **Advances in VLSI technology - Hands on Experience** was held during the period of 17th to 22nd December, 2018, for which the allotted budget was Rs. 40000/-. The coordinators for this FDP is Dr. M. Nagaraju Naik, Professor, and Ms. T.Swapna Rani, Assistant Professor of ECE Dept. Faculty of CVR Engg College and resource persons from Entuple technologies and Corel Technologies, were the main resource persons and the total no. Of participants are 43.



A One Week Faculty Development Programme on **Advances in Practical RF Antenna Design** was held during the period of 5th to 10th November, 2018, for which the allotted budget was Rs. 35000/-. The coordinators for this FDP is Mrs. B.Premalatha, Assoc.Professor, and Mr. P.Raveendra Babu, Assoc.Professor, of ECE Dept. Dr.Amarjit Roy Asst.Professor, BML MUNJAL UNIVERSITY was the main resource persons and the total no. Of participants are 32.

A One Week Faculty Development Programme on **Advances in Real time Embedded Systems &IoT** was held during the period of 20th to 25th August, 2018, for which the allotted budget was Rs. 35000/-. The coordinators for this FDP Dr. Vijayakumar, Professor and Mrs. P.Srilaxmi, Asst Professor of ECE Department. Dr.Salam Shuleeda Devi,Asst.Professor,NIT MEGHALAYA was the main resource persons and the total no. Of participants are 32.

Five day workshop on **Front end of Cadence tools** was held during the period of 20th to 24th May, 2019, for which the allotted budget was Rs. 8000/-. The coordinators for this FDP MsT.Swapna Rani Asst.Professor, ECE Department. MsT.Swapna Rani, Asst.Professor, ECE Department was the main resource person and the total no. of participants are 22.



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Three day Training on **LAB VIEW** modules was held during the period of 26th to 28th November, 2018 for which the allotted budget was Rs. 7500/-. The coordinator for this FDP is Mrs.S.KrishnaVeni, Asst.Professor, ECE Department. Mrs. S.Krishnaveni, ECE Department was the main resource persons and the total no. Of participants are 22.

Five day workshop on **Sensors & Actuators** was held during the period of 10th to 14th July, 2018 for which the allotted budget was Rs. 5000 /-. The coordinator for this FDP is Mr. C. Veeranjanyulu, Asst.Professor, ECE Department. Mr. C. Veeranjanyulu, ECE Department was the main resource persons and the total no. Of participants are 24.

Three day Training on **Raspberry Pi** was held during the period of 4th to 6th July, 2018, for which the allotted budget was Rs. 5000 /-. The coordinator for this workshop is Ms. N. Bhagyalaxmi, Asst.Professor, ECE Department. Ms. N. Bhagyalaxmi, ECE Department was the main resource persons and the total no. Of participants are 23.

One Day Orientation Program on **Microsoft Office** was held on 24<sup>th</sup> January 2019, the allocated budget was Rs.6000/- & One day Orientation program on **Ranking and Accreditation** was held on 23<sup>rd</sup> July 2018 the allocated budget was Rs.6000/-.



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## CSE

The Department of CSE has conducted 8 Faculty Development Programmes and 2 administrative training programs for the year 2018-2019. All the programs were conducted under the chairmanship of Principal Major Dr. V. A. Narayana and the convener ship of Dr.K.Vijaya Kumar.

One week faculty development Programme on Internet-of-Things was held during the period of 10 June to 15 June 2019, for which the allotted budget was Rs. 30000/-. The coordinators for this FDP are Mr. Venkateawarlu Naik Associate Professor, Dept of CSE. Mr.Praveen hanchinal Educator, eduseva Pvt Ltd; Hyderabad was the main resource person and the total no. of participants are 40.

One week faculty development Programme on Machine Learning and Deep Learning was held during the period of 13th to 18th May, 2019, for which the allotted budget was Rs. 30000/-.The coordinators for this FDP are Dr. K Ramakrishna Professor, Dept of CSE. Mr. Nishant Khare Professor/CSE, IIITDMJ was the main resource persons and the total no. of participants are 40.

One week faculty development Programme on Personality development was held during the period of 27<sup>th</sup> to 31<sup>th</sup> May 2019, for which the allotted budget was Rs. 32000/-. The coordinators for this FDP is Dr. Dishad Ansari, Asst Professor Department of CSE, Mr. Ranier Rego, CEO, HR industry Pvt Ltd, Hyderabad was the main resource person and the total no. of participants are around 50.

One week faculty development Programme on Data Science was held during the period of 28<sup>th</sup> November to 2<sup>nd</sup> December 2019, for which the allotted budget was Rs. 32000/-. The coordinators for this FDP are Mr. A. Vivekanand Associate Professor, CSE Department, Mr. Praveen Reddy, CEO, data industry Pvt Ltd, Hyderabad was the main resource person and the total no. of participants are 40

One week workshop on MOOCS was held during the period of 6<sup>th</sup> to 10<sup>th</sup> October, 2018, for which the allotted budget was Rs. 30000/-. The coordinator for this FDP is Mr K.Venkateswar Rao and Siva skanda Dept of CSE, Prof Dr.Prateek Bhatia Associate prof Dept of CSE Thapar Inst of Eng and Technology Patiala was the main resource persons and the total no. of participants are 104.

One week faculty development Programme on Teaching Methodology was held during the period of 6th to 10th August, 2018, for which the allotted budget was Rs. 30000/-. The coordinators for this FDP is Dr. K.L.S Soujanya, Professor of CSE Dept. Prof Dr M.L.Sai Kumar and Dr.Santosh K. Panda, Professor IGNOU were the main resource persons and the total no. Of participants were around 50.

One week workshop on Artificial intelligence & Deep Learning was held during the period of 12th to 16th July, 2018, for which the allotted budget was Rs. 40000/-. The coordinator for this FDP is Dr. Dishad Ansari and Mr siva Skanda Department of CSE. Prof Dr Deepak garg of Bennet University was the main resource persons and the total no. Of participants are 64.

A one week faculty development Programme on research methodology was held during the period of 9th to 15th July, 2018, for which the allotted budget was Rs. 28000/-. The coordinator for this FDP is Dr. K.L.S Soujanya, Professor Department of CSE. Dr.Madan Lal, Professor/MBA, Banaras Hindu University was the main resource persons and the total no. Of participants are 40.

One week workshop on MS office was held during the period of 6th to 10th May 2019 for which the allotted budget was Rs. 15000/-. The coordinator and resource person for this workshop is Mr.sivaskanda, Associate Professor, Department of CSE. The total no. Of participants are around 40.

One week Workshop on C language was held during the period of 29<sup>th</sup> of october<sup>t</sup> to 2<sup>nd</sup> november 2018, for which the allotted budget was Rs. 15000 /-. The coordinator and resource person for this workshop is Mr.S.Gandendar Reddy, Assistant Professor, Department of CSE. The total no. of participants are 35.



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## H&S

The Department of H&S has conducted 4 Faculty Development Programs. 1 National Conference and 1 training programs for the year 2018-2019. All the programs were conducted under the chairmanship of Principal Major Dr. V. A. Narayana and the convenorship of Dr.Chandra Shekar Reddy

A 10 day faculty development Program on Train the Teachers for Mandatory AICTE students induction program was held during the period of 25 May to 3 June 2019, for which the allotted budget was Rs.20,000 /-. The coordinators for this FDP are Dr.Chandra Shekar Reddy, Dr Nagaraju Naik. Dr.Pradeep Kumar Ramancharla was the main resource person and the total no. of participants are 48.

A two day National Conference was conducted on Pedagogical Developments and strategies in English Language and Literature was held during the period of 8th to 9th March, 2019, for which the allotted budget was Rs. 72,000/-. The coordinators for this FDP are Dr.Chandra Shekar Reddy, HOD H&S and Dr.Sucharan Reddy and the total no. of participants are 51.

A one week faculty development Program on Emerging Trends in engineering chemistry was held during the period of 16th to 20<sup>th</sup> July, 2018, for which the allotted budget was Rs. 55,000/-. The coordinators for this FDP are Dr.Chandra Shekar Reddy, HOD H&S, Dr. Rama Mohan, Professor.the main resource person Dr.Sridharla Ramu and the total no. of participants are 25.

A one week faculty development Program on Physical properties of advanced materials and applications was held during the period of 23<sup>rd</sup> to 27<sup>th</sup> July 2018, for which the allotted budget was Rs.72,000 /-. The coordinators for this FDP are Dr.Chandra Shekar Reddy, HOD H&S, and Ms Soma Mukhopadyay Professor of Physics department., and the total no. of participants are 15.

A one week faculty development Program on Applications of Numerical Techniques in engineering was held during the period of 17<sup>th</sup> to 21<sup>st</sup> December, 2018, for which the allotted budget was Rs. 60,000/-. The coordinator for this FDP is Dr.Chandra Shekar Reddy, HOD H&S. Dr.Janardhan Reddy was the main resource persons and the total no. Of participants are 19.

A 3-day training Program on Hands on training on Engineering Physics Experiments was held during the period of 3<sup>rd</sup> to 5<sup>th</sup> December, 2018, for which the allotted budget was Rs.25,000 /-. The coordinator for this training program is Dr.K.Soujanya .The total no. of participants are 7.



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## MBA

### List of Programmes organized in the MBA Department in the Academic year 2018-19:

1. FDP on "Econometrics for Management Research"
2. FDP ON "Technology enabled Learning and Teaching".
3. FDP on "HR ANALYTICS"
4. FDP on "Research Methodology & Statistical Analysis using SPSS".
5. FDP on "Big Data Analytics"

### FDP on "Econometrics for Management Research": 02-07-2018 to 07-07-2018

#### About FDP:

The objective of this programme is to provide an introduction to the participant about the subject of econometrics. It is aimed that, at the end of the course, the participants should fearlessly be able to engage in empirical research by using econometric analysis. The programme is useful to understand econometric estimation techniques, particularly linear regression analysis, through theoretical explanations and demonstrations using computer software packages. This programme is targeted at the faculty members from Business schools who are interested in doing empirical research in the area of Management and related fields using econometrics tools. The programme is foundation course. Lectures / Presentations Econometrics Computer Software Demonstrations. Econometrics is the application of statistical and mathematical methods to test and quantify economic hypothesis and finds solutions to research problems. Econometrics has become an integral part of training in modern business, economics and finance. The FDP aims to familiarize the participants with techniques of analyzing data related to financial markets. This will enable participants to understand the dynamics of the financial markets by interpreting the trends and patterns evolving from observable data. This FDP will deliberate on the standard financial econometrics tools which are used by the business analytics professionals for monitoring and assessing their business and financial performances.

### FDP ON "Technology enabled Learning and Teaching": 08-10-2018 to 13-10-2018

#### About FDP:

The basic objective of the programme is to develop the skills and quality of the teachers with the latest developments in information and communication technologies. Quality in education could be the degree of excellence in imparting and acquisition of knowledge through teaching and learning. The world is becoming more complex, year-after-year instead of generation-to-generation and the educational needs continue to shift from teaching and learning isolated skills and information within each content area, to teaching skills that enable students to solve complex problems across many areas. The students are expected to learn high-level skills such as how to access, evaluate, analyze, and synthesize vast quantities of information. Teachers are expected to meet the needs of all students and move them toward fulfillment of their individual potential even as they are pressured to prepare students for maximum



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performance on high stakes assessment tests that are the primary measure of student and institutional success. Technology can assist with these expectations and make teachers and their students more successful. This course orients the teachers for a technology-rich future and keeps up with change by adopting effective strategies that infuse lessons with appropriate technologies.

## **FDP on "HR ANALYTICS": 11-02-2019 to 16-02-2019**

### About FDP:

The Faculty Development Programme is Organized to understand -Need of planning and interpreting "people metrics" has rapidly grown in order to steer performance of employees, teams, and organizations. HR Analytics aims to provide insight into how to best manage employees and reach business goals. It is a value-added business partnership approach focused on improving HR functions. HR Analytics is playing a critical role in adding value to changing HR functions in organizations. But the challenge then is to understand the HR Analytics in order to uncover meaningful insights and improve decision making about people. Thus, the importance of HR Analytics has been widely realized in corporate world and in academia and/ or research fraternity. This FDP is designed with an aim to familiarize the participants with the conceptual underpinnings and importance of HR Analytics and its practical aspects. Along with it, develop knowledge in various statistical tools & techniques used for HR Analytics, and their applications. This program will equip participants with hands-on experience on the application of analytical tools to analyze business situations with the help of lab-assignments.

## **FDP on "Research Methodology & Statistical Analysis using SPSS": 23-04-2019 to 27-04-2019**

### About the FDP:

Management education all over the world is undergoing a sea change. Need of the hour is to enrich the intellectual capital and to focus on linking classroom teaching in management education with research and new knowledge. Research is a vanguard in management education and fresh knowledge with updated issues should be developed from time to time and thus is a need of learning research methodology tools among faculty members and research scholars to enhance their teaching skills. It is important to impart knowledge pertaining to scientific inquiry and to integrate qualitative and quantitative approaches in research. Knowledge of applied research tools and methodology along with the use of software helps in integrating research and practice. Hence, to ensure more skilful and scientific data analysis as well as high quality research output from faculty, a formal training is required. This Faculty Development Program (FDP) is aimed at honing the teaching and research skills of faculty, researchers and trainers. It will inculcate confidence in the usage of data analysis tools. Training on Statistical Packages SPSS would greatly enhance research and publication skills of the faculty.

### Program Objectives:

- To enable the participants to define research problem and select suitable research design.
- To impart capabilities for formulation and testing of hypothesis based on the nature of research.
- To comprehend appropriateness of statistical software packages for data analysis.
- To enable the participants to learn writing of reports and research proposals.

## **FDP on "Big Data Analytics": 09-05-2019 to 14-05-2019**





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## About FDP:

This FDP aims at “Big Data Analytics” course provides practical foundation level training that enables immediate and effective participation in Business Intelligence and Big Data Analytics and other projects. It includes Big Data and the Data Analytics lifecycle to address business challenges that leverage big data. The course provides in basic and advanced analytic methods and an introduction to big data analytics technology and tools, including MapReduce and Hadoop. The extensive labs throughout provide many opportunities for students to apply these methods and tools to real-world business challenges as a practicing Data Scientist. The course takes an "Open", or technology - neutral approach, and includes a final lab in which students address a big data analytics challenge by applying the concepts taught in the course in the context of the Data Analytics Lifecycle. Introduction to Big Data analytics, R studio and R for Data Science, Introduction to Supervised and Unsupervised learning, Handling Unstructured Data, Machine learning Algorithms, Bias Variance trade-off, Model Validation, Data Visualization, Introduction to MapReduce and Hadoop.



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## CEER

**Sub: Report on Faculty Development Programme conducted during A.Y:2018-19– Reg.**  
Respected Sir,

The following are the faculty development Programme conducted during Academic Year 2018-19.

A.Y	Faculty Development Programma	Dates(from-to)	No. of Participants
2018-19	Design The Thinking	19 <sup>th</sup> -23 <sup>nd</sup> Nov,2018.	30
2018-19	Design The Thinking	4 <sup>th</sup> -9 <sup>th</sup> Jan,2019	29
2018-19	Design The Thinking	28 <sup>th</sup> Jan-02 <sup>nd</sup> Feb,2019	27
2018-19	Orientation Workshop on Engineering Projects in Community Services	4 <sup>th</sup> -8 <sup>th</sup> Feb,2019	43
2018-19	Design The Thinking	11 <sup>th</sup> -16 <sup>th</sup> Feb,2019	25
2018-19	Design The Thinking	18 <sup>th</sup> -22 <sup>nd</sup> Feb,2019	25
2018-19	Design The Thinking	25 <sup>th</sup> Feb-2 <sup>nd</sup> March,2019	25
2018-19	IIEECP Phase-1 Workshop	1 <sup>st</sup> -5 <sup>th</sup> April 2019	30

### **Outcomes of the Above Workshop:**

- i) All the participants are able to focus on change in the thought process and improved the ability of the faculty members to solve the problems faced by them in teaching profession implementing five step design process.
- ii) All the participants understood about the EPICS Projects and How to do the Projects in Community.
- ii) Create a dynamic classroom using the variety of active learning strategies learnt and practiced Identify multi-disciplinary approach required in solving an engineering problem



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**EXAMINATION BRANCH**

CMRCET/EB/2018/07

Date: 15-06-2018

The Principal,  
CMR College of Engineering & Technology,  
Medchal Road, Hyderabad

Sub: Proposal for organizing a "Key Points of Examination System - An Awareness Program" on 07-07-2018.

Sir,

It is proposed to organize a "Key Points of Examination System - An Awareness Program" on 07-07-2018 to bring awareness among the faculty and staff on Examination System.

Submitted for your approval please.

(Dr. M. Narsi Reddy)  
Controller of Examinations

Controller of Examinations  
CMR College of Engineering & Technology  
(Atonomus)

### **Outcomes of the Faculty Development Program Cell:**

- It helped in enriching the faculty vitality in key domains of teaching, assessing, research, professionalism, and administration is perceived to improve educational environment significantly and enhances the academic performance of learners to strengthen the CMR College of Engineering & Technology.
- The Faculty Development program Cell regularly conducted faculty empowerment programs. Teachers have a repertoire of effective teaching strategies and used them to implement well-designed teaching programs and lessons. They regularly evaluate all aspects of their teaching practice to ensure they are meeting the learning needs of their students
- Every time a faculty comes out of a FDP & training programme, the student community feels the difference in teaching skills, depth of knowledge and teaching pedagogy used by the faculty in the class room. The CMR College of Engineering & Technology
- FDP Cell program designed and delivered programs effectively enrich faculty out comes in the following modes:
  - Begin with a clear vision (Structural Empowerment)
  - Maintain the right perspective (New Knowledge, Innovation, Improvements)
  - Network (Transformational Leadership)
  - Be responsive and take the initiative (Professional Practice)
  - Exhibit integrity (Empirical Quality Results)



**Convener**