



# M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)

UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.

(An ISO 9001:2015 Certified Institution)

TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.

Email: principalengg@miet.edu, contact@miet.edu

Website: - www.miet.edu



Ph: 0431 - 2660 303

## 1.2.2: Number of Add on /Certificate programs offered during the last five years

### 1.2.2.1: Summary report of each program in yearwise

S.No	Content	Page No.
1	Academic Year 2015 -2016	2-16
2	Academic Year 2016 -2017	17-32
3	Academic Year 2017 -2018	33-53
4	Academic Year 2018 -2019	54-72
5	Academic Year 2019 -2020	73-87

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE15161 and Advanced Surveying
Course duration	:	31 Hrs
Year offered	:	2015-16
Course Instructors	:	Mr.A.Belin Jude, AP/Civil.Mr.S.Manikandan, AP/Civil.

### Course Outcome

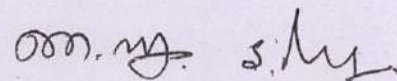
The students will be able to

1. Know the astronomical surveying.
2. Do the photogrammetric surveying and interpretation.
3. Solve the field problems with Total station.
4. Know the GPS surveying and the data processing.
5. Understand the Hydrographic Surveying.

Course type : Theory and Practical

### Assessment Mode

Attendance	:	31 periods
Number of participants	:	118
Scheme of exam	:	MSQ
Date of exam	:	16.07.15

  
Course Coordinator

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE15162 and Analysis and Design of Concrete Structures using Stadd pro software
Course duration	:	34 Hrs
Year offered	:	2015-16
Course Instructors	:	Mr.S.Suresh, AP/Civil & Mr. P.Swaminathan, AP/Civil.

### Course Outcome

The students will be able to

1. At the end of course the student will be able to manipulate calculation of shear force, bending moments etc., and compare manual – software outcomes and further acquires hands on experience in design and preparations of structural drawings for concrete / steel structures normally encountered in Civil Engineering practice
2. The Students will be able to understand basic operations in STADD Pro and be able to design of concrete structures.

Course type : Theory and Practical

### Assessment Mode

Attendance	:	34 periods'
Number of participants	:	92
Scheme of exam	:	MSQ
Date of exam	:	11.06.15

S. S. P. S. Swaminathan

Course Coordinator

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name : CE15163 and Design and Construction of Bridges  
Course duration : 32 Hrs  
Year offered : 2015-16  
Course Instructors : Mr. S.Arun Sahaya Raj AP/Civil

#### Course Outcome

The students will be able to

1. Understand the concept of Planning and investigation for Bridges and I.R.C loading
2. Analyze and Design of slab culvert, box culvert and skew bridge
3. Understand the load distribution and IRC standards.
4. Understand the concept of analyze and design of Substructures
5. Analyze and Design of Bearings

Course type : Theory

#### Assessment Mode

Attendance : 32 periods  
Number of participants : 59  
Scheme of exam : MSQ  
Date of exam : 30.12.15

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS15161 and Basic Concepts of Python Programming  
**Course duration** : 33 Hrs  
**Year offered** : 2015-16  
**Course Instructors** : Mrs. G.Nalina Keerthana., AP/CSE &  
Mr.M.K.Mohamed Faizal., AP/CSE

#### Course Outcome:

The students will be able

- To build basic programs in python.
- To learn how to use lists, tuples, and dictionaries in Python programs

**Course type** : Theory and Practical

#### Assessment Mode

**Attendance** : 33 periods'  
**Number of participants** : 72  
**Scheme of exam** : MCQ  
**Date of exam** : 13.06.15

*M.K.M.F.*

*G. Nalina Keerthana*  
Course Coordinator

*A. S. S.*  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

Course Code and Name : CS15162 and Fundamentals of Hardware and Networking  
Course duration : 35 Hrs  
Year offered : 2015-16  
Course Instructors : Mr.D.Yuvaraj., ASP/CSE, Mrs.A.Barveen., AP/CSE

#### Course Outcome:

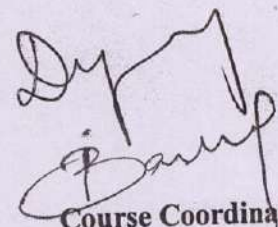
The students will be able

- To acquire basic knowledge in computer hardware and peripherals for installation, PC assembly, trouble shooting and maintenance, internet and intranet.
- To know the Basic of Computer assembling and trouble shooting and to provide the brief knowledge of Computer networking and trouble shooting.

Course type : Theory and Practical

#### Assessment Mode

Attendance : 35 periods`  
Number of participants : 63  
Scheme of exam : MCQ with Q & A  
Date of exam : 30.12.2015

  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC15161 Micro wind Tool for VLSI Design  
Course duration : 32 Hrs  
Year offered : 2015-16  
Course Instructors : Mrs.B.Rajalakshmi AP/ECE & G.Karthika AP/ECE

#### Course Outcome

The students will be able to

1. Design and simulation of CMOS integrated circuits
2. Design and simulate an integrated circuit at physical description level

Course type : Theory and Practical

#### Assessment Mode

Attendance : 32 periods  
Number of participants : 85  
Scheme of exam : MCQ  
Date of exam : 16.12.2017

*B. Rajalakshmi*  
*Karthika*

Course Coordinator

*A. J. Jeyaraj*  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC15162 Digital Systems Design with FPGAs and PLDs  
Course duration : 34 Hrs  
Year offered : 2015-16  
Course Instructors : Ms.T.Nithya AP/ECE & Mr. K.Javid AP/ECE  
Course Outcome

The students will be able to

1. Design and analyze combinational, sequential and arithmetic circuits
2. Understand digital system design flow, timing, synthesis and FPGA implementation issues. Solve engineering problems in the area of digital system design.

Course type : Theory and Practical

#### Assessment Mode

Attendance : 34 periods  
Number of participants : 98  
Scheme of exam : MCQ  
Date of exam : 31.12.2015

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE15161 & Design of Wiring and Winding
Course duration	:	34 Hrs
Year offered	:	2015-2016
Course Instructors	:	Mr. D. Jayaraj., AP/EEE

### Course Outcome

The students will be able to

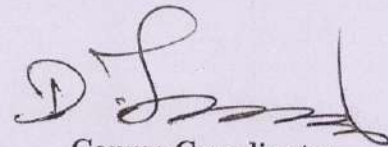
Understand the basics of electrical winding.

1. Able to wiring the electrical installations
2. Able to check the electrical Installations.

Course type : Theory

### Assessment Mode

Attendance	:	34 periods
Number of participants	:	54
Scheme of exam	:	Descriptive
Date of exam	:	17.06.15

  
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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### Course Summary

Course Code and Name	:	EE15162 & Fundamentals of MATLAB
Course duration	:	32Hrs
Year offered	:	2015-2016
Course Instructors	:	Mrs.B.Muthuselvi., AP/EEE

#### Course Outcome

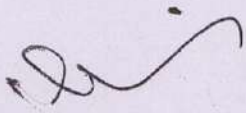
The students will be able to

1. Understand the main features of the MATLAB development environment
2. Use the MATLAB GUI effectively
3. Design simple algorithms to solve problems
4. Write simple programs in MATLAB to solve scientific and mathematical problems

Course type : Theory and Practical

#### Assessment Mode

Attendance	:	32 periods`
Number of participants	:	60
Scheme of exam	:	Descriptive
Date of exam	:	17.06.15

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

<b>Course Code and Name</b>	:	ME15161 and Advanced 3D Modelling in Autodesk Inventor 2016
<b>Course duration</b>	:	31 Hrs
<b>Year offered</b>	:	2015-16
<b>Course Instructors</b>	:	Mr. S. Thulasiram, AP/Mech Mr. R.Sankardoss, AP/ Mech Mr. D.Manikandan, AP/Mech Mr. M. Visvam, AP/Mech Mr. P. Sundaram, AP/Mech Mr. S. Senthil Kumar, AP/Mech

### Course Outcome

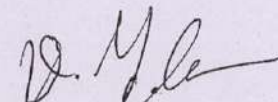
The students will be able to

1. Design mechanical parts using solid modeling tools
2. Create mechanical assemblies and motion studies
3. Collaborate with other members of the project and manage the data in the cloud
4. Create drawings and renderings
5. Use CAM module to setup 2.5-axis milling of a part

**Course type** : Theory and Practical

### Assessment Mode

<b>Attendance</b>	:	31 periods`
<b>Number of participants</b>	:	156
<b>Scheme of exam</b>	:	MSQ
<b>Date of exam</b>	:	03.09.15 (Batch-1), 07.09.15 (Batch-2), and 08.09.15 (Batch-3)

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

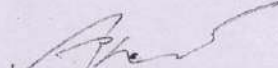
<b>Course Code and Name</b>	:	ME15162 and Recent technology in automation (Robotics)
<b>Course duration</b>	:	31 Hrs
<b>Year offered</b>	:	2015-16
<b>Course Instructors</b>	:	Mr. A.Pandianathan, AP/Mech, Mr. S. Renold Elsen, AP/ Mech, Mr. S. Kumaradevan, AP/Mech, Mr. M. Kirubakaran, AP/Mech, Mr. L S Narendhira, AP/Mech and Mr. T. Prabakaran, AP/Mech

### Course Outcome

The students will be able to

1. Understand the basic components of robots.
2. Differentiate types of robots and robot grippers.
3. Model forward and inverse kinematics of robot manipulators.
4. Analyze forces in links and joints of a robot.
5. Programme a robot to perform tasks in industrial applications.
6. Design intelligent robots using sensors

<b>Course type</b>	:	Theory and Practical
<b>Assessment Mode</b>	:	
Attendance	:	31 periods
Number of participants	:	173
Scheme of exam	:	MSQ
Date of exam	:	16.03.16 (Batch-1), 17.03.16 (Batch-2) and 18.03.16 (Batch-3)

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

<b>Course Code and Name</b>	:	ME15163 and Advances in kinematics of machinery
<b>Course duration</b>	:	30 Hrs
<b>Year offered</b>	:	2015-16
<b>Course Instructor</b>	:	Mr. S.Dhakshinamoorthy, Prof/Mech Mr. M. Dhandayuthabani, ASP/ Mech Mr. S. Kamatchisankaran, AP/Mech Mr.A. Hussainlal, AP/ Mech Mr. K.Ramesh, AP/Mech Mr. P.Pradeep, AP/ Mech

### Course Outcome

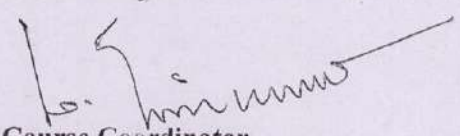
The students will be able to

1. Understand the principles of kinematic pairs, chains and their classification, DOF, inversions, equivalent chains and planar mechanisms.
2. Analyze the planar mechanisms for position, velocity and acceleration.
3. Synthesize planar four bar and slider crank mechanisms for specified kinematic conditions.
4. Evaluate gear tooth geometry and select appropriate gears for the required applications.
5. Design cams and followers for specified motion profiles.

**Course type** : Theory and Practical

### Assessment Mode

<b>Attendance</b>	:	30 periods'
<b>Number of participants</b>	:	154
<b>Scheme of exam</b>	:	MSQ
<b>Date of exam</b>	:	16.03.16(Batch-1), 17.03.16(Batch-2) and 18.03.16(Batch-3)

  
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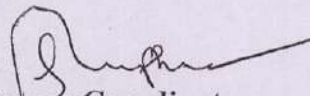
## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

Course Code and Name : MBA15161 Six Sigma  
Course duration : 30 Hrs  
Year offered : 2015-16  
Course Instructors : Mrs.T.Sathiyapriya  
Course Outcome :

The students will be able to gain more knowledge in quality standards

Course type : Theory and Practical  
Assessment Mode  
Attendance : 30 periods`  
Number of participants : 22  
Scheme of exam : MCQ with Q & A  
Date of exam : 12.06.2015

  
Course Coordinator

  
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## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

**Course Code and Name** : MBA15162 Career Communication skills

**Course duration** : 31 Hrs

**Year offered** : 2015-16

**Course Instructors** : Mr.M.Kathiravan

**Course Outcome** :

The students will be able

To improve communications skills, able to write business reports, facing the interview with proper portfolio

**Course type** : Theory and Practical

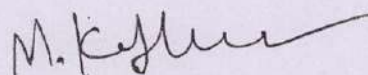
#### Assessment Mode

Attendance : 31 periods`

Number of participants : 22

Scheme of exam : MCQ with Q & A

Date of exam : 27.07.2015

  
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## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

Course Code and Name	:	MBA15163 Talent Management
Course duration	:	32 Hrs
Year offered	:	2015-16
Course Instructors	:	Mr.P.Aranganathan
Course Outcome	:	

The students will be able

To synthesize and practically apply the various strands of learning related to talent management within their overall program of study

Course type	:	Theory
Assessment Mode	:	
Attendance	:	32 periods
Number of participants	:	22
Scheme of exam	:	MCQ with Q & A
Date of exam	:	01.10.2015

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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE16171 and Rock Mechanics and Applications for Civil Engineering
Course duration	:	32 Hrs
Year offered	:	2016-17
Course Instructors	:	Mr.P.Swaminathan, AP/Civil Mr.M.Karthikeyan, AP/Civil

### Course Outcome

The students will be able to

1. Students are capable of classifying the rock.
2. They can understand stress-strain characteristics, failure criteria, and influence of insitu stress in the stability of various structures.
3. They also know various techniques to improve the insitu strength of rocks.

Course type	:	Theory
Assessment Mode	:	
Attendance	:	32 periods'
Number of participants	:	124
Scheme of exam	:	MSQ
Date of exam	:	09.07.16

*P. S. Swaminathan M. Karthikeyan*

Course Coordinator

*A. S. Srinivasan*  
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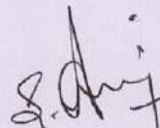
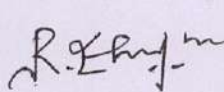
Course Code and Name	:	CE16172 and Modern Construction Technology
Course duration	:	31 Hrs
Year offered	:	2016-17
Course Instructors	:	Mr. S.Arun Sahaya Raj AP/Civil Mr.R.Elangovan, AP/Civil.


### Course Outcome

The students will be able to

1. To communicate construction solutions by means of technical reports, sketches, diagrams and drawings;
2. To link complex design intents and relate these to current construction practice;
3. To propose and evaluate alternative construction systems and methods in response to given building performance requirements;
4. To appreciate and prepare for the management of innovative practice in the field of construction technology.

Course type	:	Theory
Assessment Mode	:	
Attendance	:	31 periods
Number of participants	:	99
Scheme of exam	:	MSQ
Date of exam	:	09.07.16

  
  
Course Coordinator

  
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Ph: 0431 - 2660 303

## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE16173 and Analysis and Design Of Concrete Structures Using Etabs Software
Course duration	:	34 Hrs
Year offered	:	2015-16
Course Instructors	:	Mr.U.Bala Vignesh, AP/Civil & Mr.M.Jeganraj, AP/Civil

### Course Outcome

The students will be able to

1. Student will easily create models using objects and can understand the concepts when editing and creating complex models.
2. Student will be able to recognize story levels and be able to input building data in a logical and easy manner.
3. Student will create only one model of the floor systems and the vertical and lateral framing systems to be able to analyze and design the entire building due to the integrated system of ETABS.

Course type	:	Theory and Practical
Assessment Mode	:	
Attendance	:	34 periods'
Number of participants	:	97
Scheme of exam	:	MSQ
Date of exam	:	24.12.16

*V. Balaji*  
*Jeganraj*  
Course Coordinator

*A. Balaji*  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

Course Code and Name	:	CS16171 and Reinforcement of Programming in Java
Course duration	:	36Hrs
Year offered	:	2016-17
Course Instructors	:	Mr. R.Venkatesan, AP/CSE & Mrs.S.Shanmuga Priya., AP/CSE

### Course Outcome:

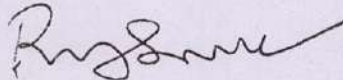
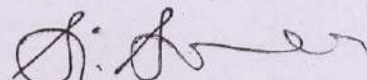
The students will be able

- To write, compile, and execute Java programs that may include basic data types and control flow constructs.
- To build, compile and execute Java programs using objectoriented class structures with parameters, constructors, and utility and calculations methods, including inheritance, test classes and exception handling.
- To create and execute Java programs using arrays and recursion

Course type : Theory and Practical

### Assessment Mode

Attendance	:	36 periods
Number of participants	:	80
Scheme of exam	:	MCQ with Q & A
Date of exam	:	09.07.2016

  
  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS16172 and Fundamentals of PHP  
**Course duration** : 35 Hrs  
**Year offered** : 2016-17  
**Course Instructors** : Mr. P.Christopher, AP/CSE, Mr.P.Manikandan, AP/CSE

#### Course Outcome:

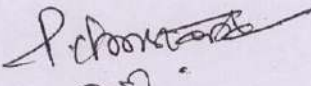
The students will be able

- Write PHP scripts to handle HTML forms.
- Write regular expressions including modifiers, operators, and met characters

**Course type** : Theory and Practical

#### Assessment Mode

**Attendance** : 35 periods'  
**Number of participants** : 62  
**Scheme of exam** : MCQ  
**Date of exam** : 24.12.2016

  
  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC16171 Analysis and Design principle of Microwave Antenna  
Course duration : 36 Hrs  
Year offered : 2016-17  
Course Instructors : Mrs.A.S.Biji AP/ECE & Ms.T.Nithya AP/ECE

### Course Outcome

The students will be able to

1. Apply the basic principles and evaluate antenna parameters and link power budgets
2. Design and assess the performance of various antennas
3. Design a microwave system given the application specifications

Course type : Theory and Practical

### Assessment Mode

Attendance : 36 periods`  
Number of participants : 62  
Scheme of exam : MCQ  
Date of exam : 09.07.2016

*Bye*  
*T. Nithya*  
Course Coordinator

*A.S.Biji*  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC16172 Enclosure design of Electronics Equipment  
Course duration : 34 Hrs  
Year offered : 2016-17  
Course Instructors : Mrs. D.Rekha AP/ECE & Mr.S.M.Muthupandi AP/ECE

#### Course Outcome

The students will be able to

1. The purpose of this course is to sensitize a registrant to various aspects of an electronics product. Specifically on n on electrical aspects like mechanical design and detailing.
2. Starting from a need translated into specifications, leading to design and prototyping and ending up in a manufacturable physical prototype.

Course type : Theory and Practical

#### Assessment Mode

Attendance : 34 periods`  
Number of participants : 78  
Scheme of exam : MCQ  
Date of exam : 23.12.2016

Course Coordinator

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE16171 & PCB Designing
Course duration	:	31Hrs
Year offered	:	2016-2017
Course Instructors	:	Mr.S.SamayaSanjeevi., AP/EEE

### Course Outcome

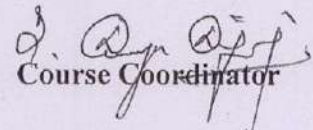
The students will be able to

1. Understand the basics of PCB designing
2. Know the development tools in PCB designing.
3. Know the basic concept of PCB designing
4. Practice PCB designing.

Course type : Theory and Practical

### Assessment Mode

Attendance	:	31 periods
Number of participants	:	60
Scheme of exam	:	Descriptive
Date of exam	:	13.07.16

  
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE16172 & Fundamentals of Mi power
Course duration	:	31Hrs
Year offered	:	2016-2017
Course Instructors	:	Mr.E.Muthukumar., AP/EEE

### Course Outcome


The students will be able to

1. Understand the various tools of MiPower software
2. Simulate the software for various Power system problems
3. Understand the Mipower software usage in Control system stability analysis

Course type : Theory and Practical

### Assessment Mode

Attendance	:	31 periods'
Number of participants	:	45
Scheme of exam	:	Descriptive
Date of exam	:	13.07.16

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

<b>Course Code and Name</b>	:	ME16171 and Recent developments in IC engines
<b>Course duration</b>	:	32 Hrs
<b>Year offered</b>	:	2016-17
<b>Course Instructors</b>	:	Mr.P.Sundaram, AP/Mech Mr. S.Dhakshinamoorthy, Prof/Mech Mr.KamatchiSankaran, AP/Mech Mr. K. Ramesh, AP/Mech Mr.T. Prabakaran, AP/Mech Mr.P.Pradeep, AP/Mech

### Course Outcome

The students will be able to

1. Understand the Advance IC engines
2. Write the characterization of alternative fuels
3. Evaluate the pollutant formation for Advance IC engines
4. Implement the pollution control techniques of engines
5. Analyze the engine performance with different alternative fuels

**Course type** : Theory and Practical

### Assessment Mode

<b>Attendance</b>	:	32 periods
<b>Number of participants</b>	:	192
<b>Scheme of exam</b>	:	MSQ
<b>Date of exam</b>	:	04.10.16(Batch-1), 05.10.16(Batch-2) and 06.10.16(Batch-3)

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME16172 and Advanced 3D Modelling in Autodesk Inventor 2016
Course duration	:	31 Hrs
Year offered	:	2016-17
Course Instructors	:	Mr. P. Sundaram, AP/Mech Mr. S.Dhakshinamoorthy, Prof/ Mech Mr. S. KamatchiSankaran, AP/ Mech Mr. K. Ramesh, AP/ Mech Mr. T. Prabakaran, AP/ Mech Mr. P.Pradeep, AP/ Mech

### Course Outcome

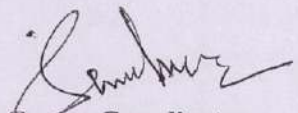
The students will be able to

1. Design mechanical parts using solid modeling tools
2. Create mechanical assemblies and motion studies
3. Collaborate with other members of the project and manage the data in the cloud
4. Create drawings and renderings
5. Use CAM module to setup 2.5-axis milling of a part

Course type : Theory and Practical

### Assessment Mode

Attendance	:	31 periods
Number of participants	:	173
Scheme of exam	:	MSQ
Date of exam	:	17.04.17(Batch-1), 18.04.17(Batch-2), and 19.04.17(Batch-3)

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

<b>Course Code and Name</b>	:	ME16173 and Cogeneration and residual heat recovery systems
<b>Course duration</b>	:	30 Hrs
<b>Year offered</b>	:	2016-17
<b>Course Instructors</b>	:	Mr. M. Dhandayuthabani ASP/Mech, Mr. S. Thulasiram AP/Mech, Mr. R.Sankardoss AP/Mech, Mr. K.Mohan AP/Mech, Mr. K.Rajasekar AP/Mech, and Mr. D. Senthil Kumar AP/Mech

### Course Outcome

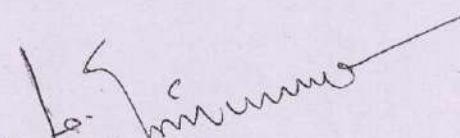
The students will be able to

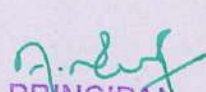
1. On completing of the syllabus students can able understand the principles of cogeneration systems,
2. waste heat recovery systems,
3. applications of cogeneration and economic analysis of waste heat recovery systems

**Course type** : Theory and Practical

### Assessment Mode

<b>Attendance</b>	:	30 periods'
<b>Number of participants</b>	:	177
<b>Scheme of exam</b>	:	MSQ
<b>Date of exam</b>	:	17.04.17(Batch-1), 18.04.17(Batch-2) and 18.04.17 (Batch-3)

  
Course Coordinator

  
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## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

**Course Code and Name** : MBA16171 Investor Awareness  
**Course duration** : 34 Hrs  
**Year offered** : 2016-17  
**Course Instructors** : Mr.S.Kumar  
**Course Outcome** :

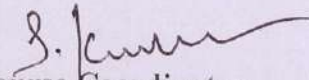
The students will be able

To find out the best portfolio of investment which is being very important for the establishment of business as well as for the personal life.

**Course type** : Theory and Practical

#### Assessment Mode

**Attendance** : 34 periods  
**Number of participants** : 54  
**Scheme of exam** : MCQ with Q & A  
**Date of exam** : 18.07.2016

  
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## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

**Course Code and Name** : MBA16172 BRANDING STRATEGIES  
**Course duration** : 32 Hrs  
**Year offered** : 2016-17  
**Course Instructors** : G.Sathishkumar  
**Course Outcome** :

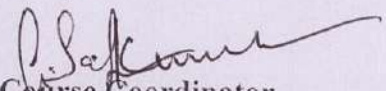
The students will be able


To create their own brand for a new product and also understood how to position the brand in the competitive market through the helps of models.

**Course type** : Theory

#### Assessment Mode

**Attendance** : 32 periods'  
**Number of participants** : 54  
**Scheme of exam** : MCQ with Q & A  
**Date of exam** : 23.08.2016

  
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## DEPARTMENT OF MANAGEMENT STUDIES

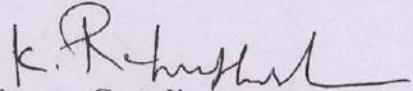
### Course Summary


**Course Code and Name** : MBA16173 Design Thinking of Management Skills  
**Course duration** : 32 Hrs  
**Year offered** : 2016-17  
**Course Instructors** : K.Rahmathnisha  
**Course Outcome** :

The students will be able

To transform their mindset and to think creatively like a designer with the strategic capabilities of a business person.

**Course type** : Theory  
**Assessment Mode**  
**Attendance** : 32 periods'  
**Number of participants** : 54  
**Scheme of exam** : MCQ with Q & A  
**Date of exam** : 30.10.2016

  
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## Course Summary (Spoken Tutorial)

Course Offered Year: 2016-2017

Sl.No	Course Name	Course Duration	Course Outcome
1.	Java		<ul style="list-style-type: none"><li>• Understanding the OOP's concepts, classes and objects, threads, files, applets, swings and act.</li><li>• This course introduces computer programming using the JAVA programming language with object-oriented programming principles.</li></ul>
2.	PHP and MySQL		<ul style="list-style-type: none"><li>• After the completion of course, students will get hands on experience on various techniques of web development.</li></ul>

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

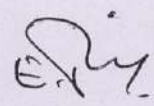
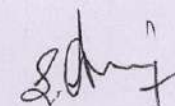
Course Code and Name	:	CE17181 and Structural Detailing and Bar Bending Scheduling for Super Structures
Course duration	:	34 Hrs
Year offered	:	2017-18
Course Instructors	:	Mr.E.Santhosh Kumar, AP/Civil. Mr.S.Arun Sahaya Raj, AP/Civil.

### Course Outcome

The students will be able to

1. Student will gain knowledge about structural detailing.
2. Student will have the capacity to design shuttering.
3. To understand reinforcement detailing with the help of bar bending schedule.

Course type	:	Theory and Practical
Assessment Mode	:	
Attendance	:	34 periods
Number of participants	:	100
Scheme of exam	:	MSQ
Date of exam	:	17.07.17

   
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE17182 and Modern Construction Materials
Course duration	:	32 Hrs
Year offered	:	2017-18
Course Instructors	:	Mr.A.Belin Jude, AP/Civil, Mr.S.Karthikeyan, AP/Civil.

### Course Outcome

The students will be able to

1. Understand various conventional construction materials, properties and their uses
2. Describe various latest and modern construction materials, properties and their uses
3. Identify the components of building and differentiate various types of building materials depending on its function.
4. Understand various Smart and Intelligent construction materials, properties and their uses

Course type	:	Theory
Assessment Mode	:	
Attendance	:	32 periods
Number of participants	:	112
Scheme of exam	:	MSQ
Date of exam	:	16.12.17

*om.ij. s.karthikeyan*

Course Coordinator

*A. S. S.*  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE17183 and Industrial building drawings using Autocad
Course duration	:	34 Hrs
Year offered	:	2017-18
Course Instructors	:	Mr.S.Suresh, AP/Civil, Mr.U.Bala Vignesh, AP/Civil.

### Course Outcome

The students will be able to

1. Students will be able to draw orthographic projections and sections.
2. Student's ability to use architectural and engineering scales will increase.
3. Students ability to produce engineered drawings will improve
4. Student's ability to convert sketches to engineered drawings will increase.
5. Students will become familiar with office practice and standards.

Course type : Theory and Practical

### Assessment Mode

Attendance	:	34 periods`
Number of participants	:	64
Scheme of exam	:	MSQ
Date of exam	:	16.12.17

*S. Suresh*      *V. Bala Vignesh*  
Course Coordinator

*A. Suresh*  
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# M.I.E.T. ENGINEERING COLLEGE

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TRICHY - PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI - 620 007.  
Email: principalengg@miet.edu, contact@miet.edu  
Website: - www.miet.edu

Ph: 0431 - 2660 303

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS17181 and Basic Concepts of Deep Learning  
**Course duration** : 38 Hrs  
**Year offered** : 2017-18  
**Course Instructors** : Mrs. S.Shanmugapriya, AP/CSE & Mrs. A.Barveen., AP/CSE

#### Course Outcome:

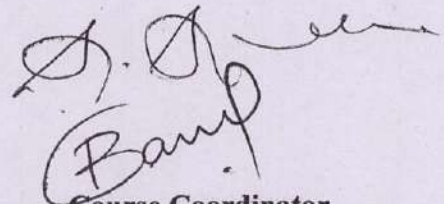
The students will be able


- To identify the deep learning algorithms which are more appropriate for various tasks of learning in different domains.
- To implement deep learning algorithms to solve problems

**Course type** : Theory

#### Assessment Mode

Attendance : 38 periods'  
Number of participants : 73  
Scheme of exam : MCQ  
Date of exam : 17.06.2017

  
Course Coordinator

  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS17182 and Fundamentals of Data Science  
**Course duration** : 35 Hrs  
**Year offered** : 2017-18  
**Course Instructors** : Mr.A.Joshua Issac, AP/CSE & Mr.P.Manikandan., AP/CSE

#### Course Outcome:

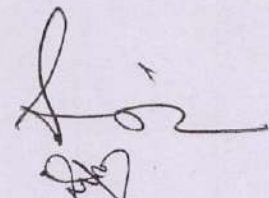
The students will be able

- Demonstrate proficiency with statistical analysis of data.
- Build and assess data-based models.

**Course type** : Theory

#### Assessment Mode

**Attendance** : 35 periods'  
**Number of participants** : 70  
**Scheme of exam** : MCQ  
**Date of exam** : 16.12.2017



Course Coordinator



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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC EC17181 Introduction to Internet of Things Using Raspberry pi  
Course duration : 34 Hrs  
Year offered : 2017-18  
Course Instructors : Mrs R.Vijayalakshmi AP/ECE

#### Course Outcome

The students will be able to

1. The students will be able to understand the working of Raspberry Pi, its features and how various components can be used with Pi.
2. The students will be able to understand IoT practically

Course type : Theory and Practical

#### Assessment Mode

Attendance : 34 periods  
Number of participants : 37  
Scheme of exam : MCQ  
Date of exam : 17.06.2017

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC17182 PCB Design  
Course duration : 32 Hrs  
Year offered : 2017-18  
Course Instructors : Mrs.B.Suganthi AP/ECE

#### Course Outcome

The students will be able to

1. After completing this course students can design and fabricate their own PCB for their Project and can also work in PCB Designing and Fabrication.

Course type : Theory and Practical

#### Assessment Mode

Attendance : 32 periods  
Number of participants : 43  
Scheme of exam : MCQ  
Date of exam : 16.12.2017

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC17183 Basic Tools of Microwave Engineering  
Course duration : 31 Hrs  
Year offered : 2017-18  
Course Instructors : Ms.P.Delphine Mary AP/ECE

#### Course Outcome

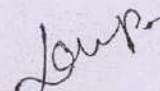
The students will be able to


1. Students have learned about Microwave Radio system.
2. Students have learned about passive and Active Circuit for designing Microwave ICs
3. Students have learned about the EDA tools for Designing

Course type : Theory and Practical

#### Assessment Mode

Attendance : 31 periods  
Number of participants : 56  
Scheme of exam : MCQ  
Date of exam : 16.12.2017

  
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	E17181 & Design of Power Converter and Applications
Course duration	:	34 Hrs
Year offered	:	2017-2018
Course Instructors	:	Mr. J.Gopi, AP/EEE

### Course Outcome

The students will be able to

1. Ability to design the converters and inverter for various applications.
2. Ability to understand the types of power supplies and pulse generation circuits.
3. Ability to design the driver circuits for LED.

Course type : Theory

### Assessment Mode

Attendance	:	34 periods'
Number of participants	:	45
Scheme of exam	:	Descriptive
Date of exam	:	18.12.17

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE17182 & Power Quality Issues in Industrial Load
Course duration	:	32 Hrs
Year offered	:	2017-2018
Course Instructors	:	Mr. E.Muthukumaran, AP/EEE

### Course Outcome

The students will be able to

1. Ability to understand and analyze various power quality issues arose in industry.
2. Ability to monitor the stage of power factor improvement in highly inductive and non-linear loads.

Course type : Theory and Practical

### Assessment Mode

Attendance	:	32 periods
Number of participants	:	58
Scheme of exam	:	Descriptive
Date of exam	:	20.06.17

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	E17183 & Power Electronics Using MATLAB
Course duration	:	34Hrs
Year offered	:	2017-2018
Course Instructors	:	Mr.D.Tamilselvan., AP/EEE

### Course Outcome

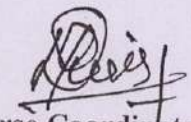
The students will be able to

1. Understand the basics of simulink
2. Able to simulate the phase controlled rectifier, Chopper and Inverter.
3. Able to simulate closed loop control for Boost and Buck converter.

Course type : Theory and Practical

### Assessment Mode

Attendance	:	34 periods`
Number of participants	:	58
Scheme of exam	:	Descriptive
Date of exam	:	19.12.18

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

**Course Code and Name** : ME17181 and Hands on training program on CNC by using Autodesk HSM Pro

**Course duration** : 31 Hrs

**Year offered** : 2017-18

**Course Instructors** : Mr. M.Vishnukumar ,AP/Mech,  
Mr. S.Kumaradevan, AP/Mech  
Mr. I. Devaraj, AP/Mech,  
Mr. K. Rajasekar, AP/Mech,  
Mr. K. Mohan, AP/Mech,  
Mr. P. Sundaram, AP/Mech,

### Course Outcome

The students will be able to

1. Program Inventor HSM is a fully integrated CAD/CAM system which allows effective generation of high quality 2D milling toolpaths,
2. Program Inventor HSM is a fully integrated CAD/CAM system which allows effective generation of high quality 2 3D milling toolpaths
3. Simulate HSM for Autodesk Inventor and Autodesk Inventor LT.
4. Describes the CAM functionality of the product.

**Course type** : Theory and Practical

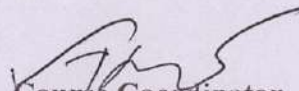
### Assessment Mode


**Attendance** : 31 periods`

**Number of participants** : 166

**Scheme of exam** : MSQ

**Date of exam** : 11.09.17(Batch-1), 12.09.17(Batch-2) and 13.09.17(Batch-3)

  
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### DEPARTMENT OF MECHANICAL ENGINEERING

#### Course Summary

<b>Course Code and Name</b>	:	ME17182 and Non-Destructive Evaluation
<b>Course duration</b>	:	31 Hrs
<b>Year offered</b>	:	2016-17
<b>Course Instructors</b>	:	Mr.S.Dhakshinamoorthy, ASP/Mech Mr. V.Pandiaraj AP/Mech Mr.L.S.Narendhira, Mr.W.Edwinlyonal, Mr. R.Sankardoss, Mr. K.Sundaravadivel

#### Course Outcome

The students will be able to

1. Upon completion of the course, The students will understand the basic perception of non destructive evaluation techniques and their application in the engineering field.
2. The students will understand various issues, industrial standards, testing methods in engineering field.
3. The students will be aware for quality, safety and risk involved in the testing process

**Course type** : Theory and Practical

#### Assessment Mode

<b>Attendance</b>	:	31 periods
<b>Number of participants</b>	:	182
<b>Scheme of exam</b>	:	MSQ
<b>Date of exam</b>	:	12.10.17(Batch-1), 13.10.17 (Batch-2) and 14.10.17(Batch-3)

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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME17183 and Design Procedure of Jigs and Fixtures
Course duration	:	31 Hrs
Year offered	:	2017-18
Course Instructors	:	Mr.S.Kumaradevan AP/Mech, Mr.I.Devaraj, AP/Mech Mr.K. Rajasekar, AP/Mech, Mr.P.Sundaram, AP/Mech

### Course Outcome

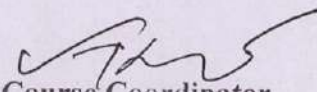
The students will be able to

1. Summarize the different methods of Locating Jigs and Fixtures and Clamping principles
2. Design and develop jigs and fixtures for given component
3. Discuss the press working terminologies and elements of cutting dies
4. Distinguish between Bending and Drawing dies
5. Discuss the different types of forming techniques

Course type : Theory and Practical

### Assessment Mode

Attendance	:	31 periods
Number of participants	:	121
Scheme of exam	:	MSQ
Date of exam	:	26.03.18 (Batch-1) and 27.03.18(Batch-2)

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME17184 - Modeling of an engine assembly by using FUSION 360
Course duration	:	31 Hrs
Year offered	:	2018-19
Course Instructors	:	Mr. S. Thulasiram, AP/Mech Mr. K Panneer Selvam, AP/Mech Mr. A.Jeyanthan, AP/Mech Mr. E.Manikandan, AP/Mech Mr. T. Prabakaran AP/Mech Mr. M. Kirubakaran AP/Mech

### Course Outcome

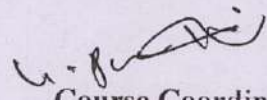
The students will be able to


1. Navigate through the user interface of Autodesk Fusion 360
2. Understand design process in Autodesk Fusion 360
3. Create conceptual design and organic forms using T-Splines
4. Design mechanical parts using solid modeling tools
5. Create mechanical assemblies and motion studies
6. Collaborate with other members of the project and manage the data in the cloud
7. Create drawings and renderings
8. Use CAM module to setup 2.5-axis milling of a part

Course type : Theory and Practical

### Assessment Mode

Attendance	:	31 periods
Number of participants	:	158
Scheme of exam	:	MSQ
Date of exam	:	09.04.18(Batch-1), 10.04.18(Batch-2) and 11.04.18(Batch-3)

  
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## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

**Course Code and Name** : MBA17181 Data Analysis using Spreadsheet  
**Course duration** : 34 Hrs  
**Year offered** : 2017-18  
**Course Instructors** : Mrs.C.R.Surekha  
**Course Outcome** :

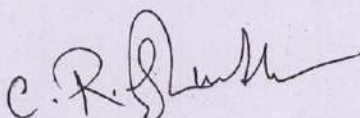
The students will be able

To gain more knowledge in spreadsheet and to implement in project

**Course type** : Theory and Practical

#### Assessment Mode

**Attendance** : 34 periods  
**Number of participants** : 59  
**Scheme of exam** : MCQ with Q & A  
**Date of exam** : 30.06.2017

  
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## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

**Course Code and Name** : MBA17182 GST and its impact on Indian economy

**Course duration** : 35 Hrs

**Year offered** : 2017-18

**Course Instructors** : C.Subha

**Course Outcome** :

The students will be able

To identify the taxes what they have been levied while transit a good/service

**Course type** : Theory and Practical

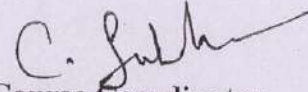
#### Assessment Mode


Attendance : 35 periods'

Number of participants : 59

Scheme of exam : MCQ with Q & A

Date of exam : 04.09.2017

  
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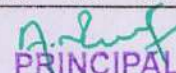


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## Course Summary (NPTEL)

Course Offered Year: 2017-2018

Sl.No	Course Name	Course Duration	Course Outcome
1.	Foundation Design	12 Weeks	<ul style="list-style-type: none"> <li>Recommend most suitable type of foundation system considering all safety and cost benefit criteria.</li> <li>Design (soil) different types of shallow and deep foundations.</li> <li>Design (soil) machine foundations considering static and dynamic criteria.</li> <li>Analyze problems related to expansive soils.</li> </ul>
2.	Integrated Waste Management For A Smart City	12 Weeks	<ul style="list-style-type: none"> <li>The specific, measurable, action-oriented, realistic, and time-bound targets which the city has set for itself within its chosen focus areas</li> <li>An overview of the two priority projects identified by the respective city</li> </ul>
3.	Design of Reinforced Concrete Structures	12 Weeks	<ul style="list-style-type: none"> <li>Recognize the design philosophy of reinforced concrete structures.</li> <li>Understand the difference between the structural behavior of different reinforced concrete structural elements through demonstration experiments and data analysis.</li> <li>Be able to analyze reinforced concrete structural systems under gravity and lateral loads.</li> <li>Be able to design different elements of reinforced concrete structural systems subjected to gravity and lateral loads</li> </ul>
4.	Reinforced Concrete Road Bridges	4 Weeks	<ul style="list-style-type: none"> <li>Discuss the IRC standard live loads and design the deck slab type bridges.</li> <li>Analyze the box culverts for the given loading and detail the box culverts.</li> <li>Design and detail of T-Beam bridges.</li> <li>Design and check the stability of piers and abutments</li> </ul>
5.	Introduction to Internet of Things	12 Weeks	<ul style="list-style-type: none"> <li>Able to understand the application areas of IOT</li> <li>Able to realize the revolution of Internet in Mobile Devices, Cloud &amp; Sensor Networks</li> <li>Able to understand building blocks of Internet of Things and characteristics.</li> </ul>
6.	Design for Internet of Things	8 Weeks	<ul style="list-style-type: none"> <li>Able to choose a processor, design a power supply, choose the powering modality, choose the communication</li> </ul>

  
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Sl.No	Course Name	Course Duration	Course Outcome
			protocol, choose communication technology, ch between sensors, ICs and components.
7.	Power System Analysis	12 Weeks	<ul style="list-style-type: none"> <li>• Create computational models for analysis power systems and able to understand per unit system</li> <li>• Perform load flow computations and analyze the load flow results.</li> <li>• Analyse a power system network under Symmetrical Conditions</li> <li>• Understand Positive Sequence, Negative &amp; zero sequence system and fault analysis.</li> </ul>
8.	Principles of Communication Systems	8 Weeks	<ul style="list-style-type: none"> <li>• Principles of Communication Systems</li> <li>• Demonstrate and solve communication system parameters for various types of modulation and demodulation techniques</li> <li>• Apply the concepts to practical applications in telecommunication</li> <li>• Demonstrate ability to communicate effectively and working as individual or as a team member</li> </ul>
9.	Manufacturing of Composites	12 Weeks	<ul style="list-style-type: none"> <li>• The student will demonstrate a basic understanding of the basic mechanisms of reinforcement, suitable applications, and limitations.</li> <li>• The student will demonstrate an understanding of the characteristics of fibers, fabrics and matrix materials, and their effect on composites processing and properties.</li> <li>• The student will demonstrate an ability to select raw materials for composites.</li> </ul>
10.	Six Sigma	12 Weeks	<ul style="list-style-type: none"> <li>• Define the problem with a High-Level Problem Statement</li> <li>• Specifically identify the process or product customers impacted by the problem</li> <li>• Define CTQs (Critical to Quality) characteristics from the customer's point of view</li> <li>• Scope the project to a specific actionable level</li> </ul>
11.	Spur and Helical Gear Cutting	4 Weeks	<ul style="list-style-type: none"> <li>• To understand and apply principles of gear design to spur gears and industrial spur gear boxes</li> <li>• To become proficient in Design of Helical and Bevel Gear</li> <li>• To develop capability to analyze Rolling contact bearing and its selection from manufacturer's Catalogue.</li> <li>• To learn a skill to design worm gear box for various industrial applications.</li> </ul>
12.	Laws of Thermodynamics	4 Weeks	<ul style="list-style-type: none"> <li>• Describe basic concepts of Thermodynamics.</li> <li>• Restate definition of system, surrounding, closed and open system, extensive and intensive properties.</li> </ul>

Sl.No	Course Name	Course Duration	Course Outcome
			<ul style="list-style-type: none"> <li>• Calculate absolute and gage pressure, and absolute temperature.</li> <li>• Calculate changes in kinetic, potential, enthalpy and internal energy.</li> </ul>
13.	Problem Solving Through Programming in C	12 Weeks	<ul style="list-style-type: none"> <li>• Formulate simple algorithms for arithmetic and logical problems.</li> <li>• Translate the algorithms to programs (in C language)</li> <li>• Test and execute the programs and correct syntax and logical errors.</li> <li>• Implement conditional branching, iteration and recursion.</li> </ul>
14.	Theory and Practice of Non Destructive Testing	8 Weeks	<ul style="list-style-type: none"> <li>• Investigate and find solutions for complex engineering components and structures using theoretical and practical knowledge acquired in NDT</li> <li>• Obtain in-depth knowledge and hands on experience in conventional and advanced techniques in the field of non-destructive testing</li> <li>• Communicate effectively the activities like testing, reports, documentations and presentations adhering to codes and standards to the NDT community</li> </ul>

  
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## Course Summary (Spoken Tutorial)

Course Offered Year: 2017-2018

Sl.No	Course Name	Course Duration	Course Outcome
1.	Drupal		<ul style="list-style-type: none"><li>capable of developing a website using Drupal in a standardized, version controlled way</li></ul>
2.	Java		<ul style="list-style-type: none"><li>Understanding the OOP's concepts, classes and objects, threads, files, applets, swings and act.</li><li>This course introduces computer programming using the JAVA programming language with object-oriented programming principles.</li></ul>
3.	Scilab		<ul style="list-style-type: none"><li>Develop programs in MATLAB.</li><li>Evaluate, analyze and plot results.</li><li>Perform mathematical Modelling in MATLAB.</li><li>Good understanding of Linear algebra and Signal processing concepts</li></ul>
4.	C and Cpp		<ul style="list-style-type: none"><li>Understand the difference between the top-down and bottom-up approach</li><li>Apply the concepts of object-oriented programming</li><li>Apply virtual and pure virtual function &amp; complex programming situation</li></ul>

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

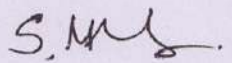
Course Code and Name	:	CE18191 and Experimental Techniques and Instrumentation in civil Engineering
Course duration	:	37 Hrs
Year offered	:	2018-19
Course Instructors	:	Mr.S.Manikandan, AP/Civil.

### Course Outcome

The students will be able to

1. Familiar with stress analysis methods and digital data Acquisition systems.
2. Able to understand Diagnosis of distress in structures
3. Able to analysis Advanced NDT methods and ultrasonic testing principles.
4. Students will know about measurement of strain and Crack observation and measurements.

Course type	:	Theory and Practical
Assessment Mode	:	
Attendance	:	37 periods'
Number of participants	:	66
Scheme of exam	:	MSQ
Date of exam	:	23.06.18

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

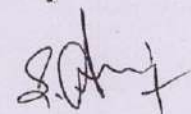
Course Code and Name	:	CE18192 and Design and Construction of Offshore Structures
Course duration	:	34 Hrs
Year offered	:	2018-19
Course Instructors	:	Mr.S.Arun Sahaya Raj, AP/Civil.


### Course Outcome

The students will be able to

1. Familiar with finite amplitude and nonlinear wave theories.
2. Have a better understanding of wave forces- Morison equation.
3. Able to Design a foundation modeling and fixed jacket platform structural modeling.
4. Able to Design platforms, helipads and Jacket tower.
5. Apply knowledge and skills to analysis and design of mooring cables and pipelines.

Course type	:	Theory
Assessment Mode	:	
Attendance	:	34 periods'
Number of participants	:	43
Scheme of exam	:	MSQ
Date of exam	:	23.06.18

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE18193 and Analysis and Design of steel structures using Etabs Software
Course duration	:	32 Hrs
Year offered	:	2018-19
Course Instructors	:	Mr.A.Belin Jude, AP/Civil, Mr.S.Suresh, AP/Civil.

### Course Outcome

The students will be able to

1. Student will easily create models using objects and can understand the concepts when editing and creating complex models.
2. Student will be able to recognize story levels and be able to input building data in a logical and easy manner.
3. Student will create only one model of the floor systems and the vertical and lateral framing systems to be able to analyze and design the entire building due to the integrated system of ETABS.

Course type : Theory and Practical

### Assessment Mode

Attendance	:	32 periods
Number of participants	:	97
Scheme of exam	:	MSQ
Date of exam	:	15.12.18

*m.m. S.S.*

Course Coordinator

*A.B.J.*  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS18191 and Enhanced learning in C++  
**Course duration** : 37 Hrs  
**Year offered** : 2018-19  
**Course Instructors** : Mr.M.K.Mohamed Faizal ,AP /CSE,  
Mrs.G.Nalina Keerthana.,AP/CSE

#### Course Outcome:

The students will be able

- Build programs to solve various problems in application level.
- Create programs with exception handling, templates and files.

**Course type** : Theory and Practical

#### Assessment Mode

**Attendance** : 37 periods`  
**Number of participants** : 62  
**Scheme of exam** : MCQ with Q & A  
**Date of exam** : 23.06.2018

*G. Nalina Keerthana*  
*M.K. Faizal*  
Course Coordinator

*A. S. J.*  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS18192 and Fundamentals of Randomized Algorithms  
**Course duration** : 33 Hrs  
**Year offered** : 2018-19  
**Course Instructors** : Mr.P.Christopher., AP /CSE, Mrs.S.Shanmuga Priya., AP/CSE

#### Course Outcome:

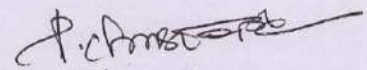

The students will be able

- Gain basic understanding of fundamental concepts in randomized algorithms and computing.
- Identify and leverage common randomized computing patterns

**Course type** : Theory

#### Assessment Mode

**Attendance** : 33 periods`  
**Number of participants** : 71  
**Scheme of exam** : MCQ with Q & A  
**Date of exam** : 22.06.2018

  
  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS18193 and Rudiments of Blockchain Technologies  
**Course duration** : 34 Hrs  
**Year offered** : 2018-19  
**Course Instructors** : Mrs.Dr.K.Geetha., Prof/CSE and Mrs.R.Deepa.,AP/CSE

#### Course Outcome:

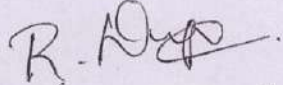
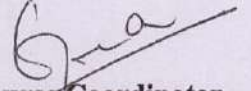
The students will be able

- Blockchain technology landscape.
- Build and critically evaluate block chain applications.
- Evaluate the state of the art and emerging the use cases of blockchain

**Course type** : Theory

#### Assessment Mode

**Attendance** : 34 periods'  
**Number of participants** : 78  
**Scheme of exam** : MCQ  
**Date of exam** : 15.12.2018

  
  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC18191 Introduction to Machine Learning with Matlab  
Course duration : 31 Hrs  
Year offered : 2018-19  
Course Instructors : Ms.P.Delphine Mary Ap/ECE & Mrs.N.Latha AP/ECE

#### Course Outcome

The students will be able to

1. Ability to analyze and appreciate the applications which can use Machine Learning Techniques.
2. Ability to understand regression, classification, clustering methods.
3. Ability to understand the difference between supervised and unsupervised learning methods.
4. Ability to appreciate Dimensionality reduction Techniques.
5. Students would understand the working of Reinforcement learning

Course type : Theory and Practical

#### Assessment Mode

Attendance : 31 periods`  
Number of participants : 71  
Scheme of exam : MCQ  
Date of exam : 23.06.2018

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC18192 Basic of Software Defined Radio and its practical application  
Course duration : 35 Hrs  
Year offered : 2018-19  
Course Instructors : Ms.Chandni AP/ECE and Ms.M.Pushpa AP/ECE

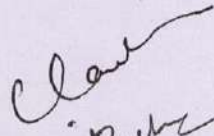
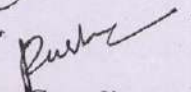
Course Outcome  
The students will be able to

1. To understand basic design issues of physical RF hardware blocks
2. To apply the knowledge of wireless communication systems and signal processing filters, designs using Software defined radio

Course type : Theory and Practical

#### Assessment Mode

Attendance : 35 periods  
Number of participants : 59  
Scheme of exam : MCQ  
Date of exam : 15.12.2018

  
  
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE18191 & Power System Planning and Reliability
Course duration	:	34 Hrs
Year offered	:	2018-2019
Course Instructors	:	Mr. S.Pandiarajan, AP/EEE

### Course Outcome

The students will be able to

1. Ability to make the planning and reliability of power systems in different conditions.
2. Ability to use the types of tools and techniques to evaluation of indices and overload capability and also protection systems for transmission and generation.

Course type : Theory

### Assessment Mode

Attendance	:	34 periods
Number of participants	:	64
Scheme of exam	:	Descriptive
Date of exam	:	27.06.18

*S. Pandiarajan*  
Course Coordinator

*[Signature]*  
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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE18192 & Industrial Wiring and House Wiring
Course duration	:	33 Hrs
Year offered	:	2018-2019
Course Instructors	:	Mr. S.Rajasekar, AP/EEE

### Course Outcome

The students will be able to

1. Ability to make the design of wiring in industry and commercial.
2. Ability to use the types of circuits and various techniques to rectify the wiring problems in current scenario.

Course type : Theory

### Assessment Mode

Attendance	:	33 periods
Number of participants	:	58
Scheme of exam	:	Descriptive
Date of exam	:	19.12.18

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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME18191 and Machine drawing and steel structural detailing by using Auto cad software
Course duration	:	31 Hrs
Year offered	:	2018-19
Course Instructors	:	Mr. S. Thulasiram, AP/Mech Mr. K.Panneer Selvam, AP/Mech Mr. K.Rajasekar, AP/Mech Mr.I. Devaraj, AP/Mech Mr.T. Ramkumar, AP/Mech Mr. T. Prabakaran, AP/Mech

### Course Outcome

The students will be able to

1. To enhance the ability to work as practicing Mechanical Engineers in manufacturing Industries
2. Improving skills to adopt modern methods in mechanical engineering as continuous improvement
3. Have a comprehensive understanding and knowledge of detailing fundamentals
4. Know the fundamentals around detailing columns, beams, connections and trusses
5. Have the theoretical knowledge of a detailer with years of experience

Course type : Theory and Practical

### Assessment Mode

Attendance	:	31 periods'
Number of participants	:	145
Scheme of exam	:	MSQ
Date of exam	:	15.10.18(Batch-1), 16.10.18(Batch-2) and 18.10.18(Batch-3)

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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME18192 and RAPID MANUFACTURING TECHNOLOGIES
Course duration	:	32 Hrs
Year offered	:	2018-19
Course Instructors	:	Dr.C.Ahilan Prof/Mech , K.Sundaravadivel, AP/Mech Mr.M.Visvam, AP/Mech, Mr.A.Pandianathan, AP/Mech, Mr.D.Manikandan AP/Mech and Mr.P.Pradeep AP/Mech

### Course Outcome

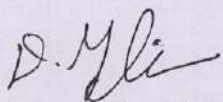
The students will be able to

1. Demonstrate the knowledge of Rapid Prototyping/Manufacturing technologies.
2. Get exposed to design rules for commercial Rapid Prototyping systems.
3. Possess the knowledge of the Rapid Prototyping software.
4. Create awareness of rapid manufacturing applications in tooling, biomedical, architecture, etc.,
5. Ability to use techniques, skills and modern engineering tools necessary for engineering practice

Course type : Theory and Practical

### Assessment Mode

Attendance	:	32 periods
Number of participants	:	161
Scheme of exam	:	MSQ
Date of exam	:	15.10.2018(Batch-1), 16.10.2018(Batch-2) and 17.10.2018(Batch-3)

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME18193 and Manufacturing Automation
Course duration	:	32 Hrs
Year offered	:	2018-19
Course Instructors	:	Mr. L. S. Narendhira, AP/Mech Mr. K. Ramesh, AP/Mech Mr. M. Dhandayuthabani, AP/Mech Mr. S. Kumaradevan, AP/Mech

### Course Outcome

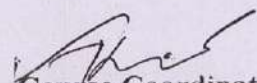
The students will be able to


1. Apply automation principles and strategies and model manufacturing systems
2. Design automated storage and retrieval systems and employ robots in material handling
3. Implement concepts of automation in inspection and testing
4. Apply PLC timers and counters for the control of industrial processes
5. Design of Hydraulic Circuit and pneumatic circuit for manufacturing application
6. Monitor production using smart sensors based on Industry 4.0 techniques
7. Implement artificial intelligence based systems and IOT in manufacturing

Course type : Theory and Practical

### Assessment Mode

Attendance	:	32 periods
Number of participants	:	137
Scheme of exam	:	MSQ
Date of exam	:	23.06.19 (Batch-1) and 27.06.19 (Batch-2)

  
Course Coordinator

  
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## DEPARTMENT OF MANAGEMENT STUDIES

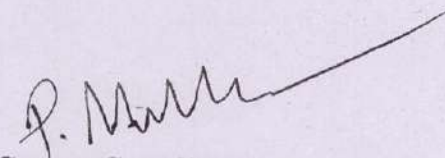
### Course Summary

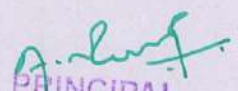
Course Code and Name	:	MBA18191 Personality Development for Successful Career
Course duration	:	33 Hrs
Year offered	:	2018-19
Course Instructors	:	Dr.P.Mohanraj
Course Outcome	:	

The students will be able

To conduct themselves in a mature manner when they interact with the people

Course type	:	Theory
Assessment Mode	:	
Attendance	:	33 periods`
Number of participants	:	44
Scheme of exam	:	MCQ with Q & A
Date of exam	:	11.07.2018

  
Course Coordinator

  
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## Course Summary (NPTEL)

Course Offered Year: 2018-2019

Sl.No	Course Name	Course Duration	Course Outcome
1.	Design of Reinforced Concrete Structures	12 Weeks	<ul style="list-style-type: none"><li>Recognize the design philosophy of reinforced concrete structures.</li><li>Understand the difference between the structural behavior of different reinforced concrete structural elements through demonstration experiments and data analysis.</li><li>Be able to analyze reinforced concrete structural systems under gravity and lateral loads.</li><li>Be able to design different elements of reinforced concrete structural systems subjected to gravity and lateral loads</li></ul>
2.	Wastewater Treatment and Recycling	12 Weeks	<ul style="list-style-type: none"><li>Ability to estimate sewage generation and design sewer system including Sewage pumping stations</li><li>Required understanding on the characteristics and composition of sewage, self-Purification of streams</li><li>Ability to perform basic design of the unit operations and processes that are used in sewage treatment</li></ul>
3.	Programming in C++	8 Week	<ul style="list-style-type: none"><li>Articulate the principles of object-oriented problem solving and programming.</li><li>Outline the essential features and elements of the C++ programming language.</li><li>Explain programming fundamentals, including statement and control flow and recursion.</li><li>Program with basic data structures using array</li></ul>
4.	Introduction to Programming in C	8 Week	<ul style="list-style-type: none"><li>Understanding a functional hierarchical code organization.</li><li>Ability to define and manage data structures based on problem subject domain.</li><li>Ability to work with textual information, characters and strings.</li><li>Ability to work with arrays of complex objects.</li><li>Understanding a concept of object thinking within the framework of functional model</li></ul>
5.	Introduction to Machine Learning	8 Week	<ul style="list-style-type: none"><li>Build models for prediction and data organization from data.</li><li>Learn to use basic ML libraries.</li></ul>

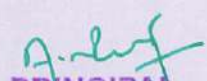
  
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Sl.No	Course Name	Course Duration	Course Outcome
			<ul style="list-style-type: none"> <li>Understand the basic theories and concepts that underly machine learning.</li> </ul>
6.	Cloud Computing	8 Week	<ul style="list-style-type: none"> <li>Understand the fundamental principles of distributed computing.</li> <li>Understand how the distributed computing environments known as Grids can be built from lower level services.</li> <li>Understand the importance of virtualization in distributed computing and how this has enabled the development of Cloud Computing.</li> <li>Analyze the performance of Cloud Computing.</li> </ul>
7.	Power System Analysis	12 Week	<ul style="list-style-type: none"> <li>Create computational models for analysis power systems and able to understand per unit system</li> <li>Perform load flow computations and analyze the load flow results.</li> <li>Analyse a power system network under Symmetrical Conditions</li> <li>Understand Positive Sequence, Negative &amp; zero sequence system and fault analysis.</li> </ul>
8.	Digital Circuits	12 Week	<ul style="list-style-type: none"> <li>Have a thorough understanding of the fundamental concepts and techniques used in digital electronics.</li> <li>To understand and examine the structure of various number systems and its application in digital design.</li> <li>The ability to understand, analyze and design various combinational and sequential circuits</li> <li>Ability to identify basic requirements for a design application and propose a cost effective solution</li> </ul>
9.	Robotics	8 Week	<ul style="list-style-type: none"> <li>Industrial robots: Structure and applications.</li> <li>Robot kinematics, coordinate frames, and Jacob matrices.</li> <li>Robot dynamics.</li> <li>Control systems for motion control and control interaction forces.</li> </ul>
10.	Plastic Waste Management	8 Week	<ul style="list-style-type: none"> <li>Describe the components of plastic waste management and the laws governing it.</li> <li>Discuss the plastic waste collection systems, optimization techniques and processing of solid waste.</li> <li>Explain the operation, and maintenance of sanitary landfills.</li> <li>Conclude the recent trends in reuse of plastic waste</li> </ul>
11.	Engineering Mathematics - I	12 Week	<ul style="list-style-type: none"> <li>Students will be able to remember terminologies and formulae in matrices, complex numbers, and differential calculus.</li> <li>Students will be able to understand and interpret the concepts of matrices, complex numbers, and differential calculus.</li> </ul>

Sl.No	Course Name	Course Duration	Course Outcome
			<ul style="list-style-type: none"> <li>Students will be able to compare and analyze the methods in matrices, complex numbers, and differential calculus.</li> </ul>
12.	Probability and Statistics	12 weeks	<ul style="list-style-type: none"> <li>Organize, manage and present data.</li> <li>Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.</li> <li>Analyze statistical data using measures of central tendency, dispersion and location.</li> </ul>
13.	IC Engines and Gas Turbines	12 weeks	<ul style="list-style-type: none"> <li>Explain basic concepts of actual cycles with analysis and to describe the fundamental concepts of IC engines along with its working principles.</li> <li>Describe the combustion phenomenon in SI and CI engines.</li> <li>Evaluate the performance of IC engines and the importance of alternate fuels.</li> <li>Classify the essential components of gas turbine along with its performance Improving methods</li> </ul>
14.	Programming, Data Structures and Algorithms using Python	8 Week	<ul style="list-style-type: none"> <li>Learn Data Structures, Abstract Data Types and their implementation in Python</li> <li>Implementation of Stacks, Queues, Linked List, Binary Trees, Heaps and Graphs in Python</li> <li>Implementation of Sorting Algorithms in Python</li> <li>Implementation of Binary Tree Traversal Techniques in Python</li> </ul>

  
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## Course Summary (Spoken Tutorial)

Course Offered Year: 2018-2019

Sl.No	Course Name	Course Duration	Course Outcome
1.	Qcad		<ul style="list-style-type: none"> <li>Understands Two dimensions (2D) With QCAD and can create technical drawings such as plans for buildings, interiors, mechanical parts or schematics and diagrams</li> </ul>
2.	Introduction to Computers		<ul style="list-style-type: none"> <li>Identify the basic elements required in a computer system.</li> <li>Produce electronic documents using various software applications.</li> <li>Illustrate the role of the computer for personal and professional uses.</li> </ul>
3.	LaTeX		<ul style="list-style-type: none"> <li>Explain and use TeX and LaTeX.</li> <li>Describes the development process of TeX and LaTeX.</li> <li>Explains the difference between TeX and LaTeX.</li> <li>Tells the advantages of LaTeX over other more traditional software's.</li> </ul>
4.	C and Cpp		<ul style="list-style-type: none"> <li>Understand the difference between the top-down and bottom-up approach</li> <li>Apply the concepts of object-oriented programming</li> <li>Apply virtual and pure virtual function &amp; complex programming situation</li> </ul>
5.	Joomla		<ul style="list-style-type: none"> <li>Improve PHP coding productivity.</li> <li>Set up CMS web application using Joomla.</li> <li>Create customized templates, plugins and modules in Joomla.</li> </ul>
6.	Linux AWK		<ul style="list-style-type: none"> <li>Demonstrate installation of Linux operating system and understand the importance of Linux.</li> <li>Appraise various command usage of files and directories</li> </ul>
7.	Scilab		<ul style="list-style-type: none"> <li>Develop programs in MATLAB.</li> <li>Evaluate, analyze and plot results.</li> <li>Perform mathematical Modelling in MATLAB.</li> </ul>

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Sl.No	Course Name	Course Duration	Course Outcome
			<ul style="list-style-type: none"> <li>• Good understanding of Linear algebra and Signal processing concepts</li> </ul>
8.	Arduino		<ul style="list-style-type: none"> <li>• Learn the basics of electronics, including reading schematics (electronics diagrams)</li> <li>• Learn how to prototype circuits with a breadboard</li> <li>• Learn the Arduino programming language and IDE</li> </ul>
9.	Java		<ul style="list-style-type: none"> <li>• Understanding the OOP's concepts, classes and objects, threads, files, applets, swings and act.</li> <li>• This course introduces computer programming using the JAVA programming language with object-oriented programming principles.</li> </ul>
10.	Blender		<ul style="list-style-type: none"> <li>• Create models with basic skills</li> <li>• Use the blender interface</li> <li>• Use the most common modifiers to enhance their models</li> </ul>
11.	PHP and MySQL		<ul style="list-style-type: none"> <li>• After the completion of course, students will get hands on experience on various techniques of web development.</li> </ul>

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE19201 and Earthquake Analysis and Design of Structures
Course duration	:	34 Hrs
Year offered	:	2019-20
Course Instructors	:	Mr. S.Manikandan., AP/Civil, Mr. S.Suresh., AP/Civil

### Course Outcome

The students will be able to

1. Understand a Seismic Zoning of India, Seismic Instrumentation and Characteristics of Strong Earthquake Motion.
2. Understand the Effect of Earthquake on Different Types of Structures.
3. Design of Earthquake Resistant Masonry Structures.
4. Design of Earthquake Resistant RCC Structures.
5. Understand the Various Vibration Control Techniques

Course type	:	Theory
Assessment Mode	:	
Attendance	:	34 periods`
Number of participants	:	75
Scheme of exam	:	MSQ
Date of exam	:	30.05.19

*S. M. S. S.*  
Course Coordinator

*[Signature]*  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

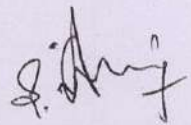
Course Code and Name	:	CE19202 and Structural Detailing And Bar Bending Scheduling for Sub Structures
Course duration	:	32 Hrs
Year offered	:	2019-20
Course Instructors	:	Mr. S. Arun Sahaya Raj

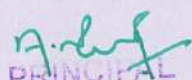
### Course Outcome

The students will be able to

1. Student will gain knowledge about structural detailing
2. Student will have the capacity to design shuttering
3. To understand reinforcement detailing with the help of bar bending schedule.

Course type	:	Theory
Assessment Mode	:	
Attendance	:	32 periods
Number of participants	:	43
Scheme of exam	:	MSQ
Date of exam	:	30.05.19

  
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## DEPARTMENT OF CIVIL ENGINEERING

### Course Summary

Course Code and Name	:	CE19203 and Analysis and Design of Steel structures using Stadd Pro Software
Course duration	:	35 Hrs
Year offered	:	2019-20
Course Instructors	:	Mr. S.Suresh., AP/Civil

### Course Outcome

The students will be able to

1. Student will be able to manipulate calculation of shear force, bending moments and compare manual - software outcomes.
2. Student acquires hands on experience in design and preparations of structural
3. The Students will be able to understand basic operations in STADD Pro and be able to design of steel structures.

Course type	:	Theory and Practical
Assessment Mode	:	
Attendance	:	35 periods
Number of participants	:	50
Scheme of exam	:	MSQ
Date of exam	:	14.12.19

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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

<b>Course Code and Name</b>	:	CS19201 and Salesforce ADX-201
<b>Course duration</b>	:	35 Hrs
<b>Year offered</b>	:	2019-20
<b>Course Instructors</b>	:	Mr.M.K Mohamed Faizal.,AP/CSE and Mr.P.Chirstopher., AP/CSE

#### Course Outcome:

The students will be able

- Understand key principles in managing a sales team in today's business context.
- Analyze current issues and apply best practices in sales force management.
- Gain key competencies in leading sales team to effectively manage key customer portfolios and seek new opportunities.

**Course type** : Theory

#### Assessment Mode

Attendance	:	35 periods`
Number of participants	:	77
Scheme of exam	:	MCQ with Q & A
Date of exam	:	05.10.2019

*M. K. Mohamed Faizal*

*P. Chirstopher*

Course Coordinator

*A. J. J.*  
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## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

### Course Summary

**Course Code and Name** : CS19202 and Implementation of Data Structures Using Python Programming

**Course duration** : 30Hrs

**Year offered** : 2019-20

**Course Instructors** : Mrs.R.Deepa., AP /CSE & Mrs.G.Nalina Keerthana., ASP /CSE

#### Course Outcome:

The students will be able

- Analyze algorithms and to summarize searching and sorting techniques.
- Implement stack, queue and linked list operations in python.
- Implement the concepts of tree in python.

**Course type** : Theory and Practical

#### Assessment Mode

**Attendance** : 30 periods`

**Number of participants** : 72

**Scheme of exam** : MCQ with Q & A

**Date of exam** : 31.01.2020

*R. Deepa*  
*G. Nalina Keerthana*  
Course Coordinator

*R. Deepa*  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC19201 Hardware Modeling Using Verilog  
Course duration : 36 Hrs  
Year offered : 2019-20  
Course Instructors : Mrs.N.Latha AP/ECE and Dr.A Suresh Kumar AP/ECE

#### Course Outcome

The students will be able to

1. Understand a digital circuit of a system.
2. Explain syntax, lexical conventions, data types, modules and ports.
3. Model the digital system using gate level and dataflow description.
4. Model the digital system using behavioral description.
5. Analyze the steps involved in synthesis of HDL code
6. Implement a hardware using FPGA

Course type : Theory and Practical

#### Assessment Mode

Attendance : 36 periods  
Number of participants : 68  
Scheme of exam : MCQ  
Date of exam : 04.06.19

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### Course Summary

Course Code and Name : EC19202 ARDUINO\_based Embedded System Design  
Course duration : 38 Hrs  
Year offered : 2019-20  
Course Instructors : Mrs.G.Karthika AP/ECE

#### Course Outcome

The students will be able to

1. Familiar with Arduino environment and its applications.
2. Able to understand Arduino programming
3. Able to Design Smart systems applications.
4. Have a better understanding of essential problem solving and programming concepts.
5. Apply programming knowledge and skills to design and implement reliable software systems that take into account software assurance concepts.

Course type : Theory and Practical

#### Assessment Mode

Attendance : 38 periods  
Number of participants : 42  
Scheme of exam : MCQ  
Date of exam : 14.12.2019

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE19201 & Electrical Safety and Maintenance
Course duration	:	32 Hrs
Year offered	:	2019-2020
Course Instructors	:	Mr.S.Samaya sanjeevi., AP/EEE

### Course Outcome

The students will be able to

1. Know the installation, commissioning and maintenance of different electrical components.
2. Understand the concepts of commissioning, maintenance, electrical safety, installation and maintenance of domestic.

Course type	:	Theory
Assessment Mode	:	
Attendance	:	32 periods`
Number of participants	:	31
Scheme of exam	:	Descriptive
Date of exam	:	03.06.19

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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Course Summary

Course Code and Name	:	EE19202 & Basic Industrial Automation Using PLC
Course duration	:	34 Hrs
Year offered	:	2019-2020
Course Instructors	:	Ms.A.Abirami., AP/EEE

### Course Outcome

The students will be able to

1. Understand the basics of automation.
2. Understand the need for Industrial electronic circuits in the controlled applications.
3. Understand basic concepts of PLC and develop its programming and applications.

Course type : Theory & Practical

### Assessment Mode

Attendance	:	34 periods
Number of participants	:	31
Scheme of exam	:	Descriptive
Date of exam	:	03.06.19

*A. Abirami*

Course Coordinator

*A. Abirami*  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME19201 and Non-Destructive Testing techniques to minimize weld defects
Course duration	:	31 Hrs
Year offered	:	2019-20
Course Instructors	:	Mr. M.Kirubakaran, AP/Mech, Mr. L S Narendhira, AP/Mech Mr. E.Manikandan, AP/Mech Mr.S.Kumaradevan, AP/Mech Mr.T.Ramkumar, AP/Mech Mr.A.Jeyanthan, AP/Mech

### Course Outcome

The students will be able to

1. The students will understand the basic perception of non destructive evaluation techniques and their application in the engineering field.
2. The students will understand various issues, industrial standards, testing methods in engineering field.
3. The students will be aware for quality, safety and risk involved in the testing process

Course type : Theory and Practical

### Assessment Mode

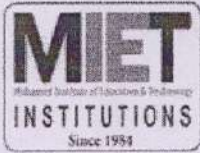
Attendance	:	31 periods`
Number of participants	:	138
Scheme of exam	:	MSQ
Date of exam	:	19.08.19(Batch-1), 20.08.19(Batch-2) and 21.08.19(Batch-3)

*M. Kirubakaran*

Course Coordinator

*A. Jeyanthan*  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### Course Summary

Course Code and Name	:	ME19202 and Modeling of an engine assembly by using FUSION 360
Course duration	:	30 Hrs
Year offered	:	2019-20
Course Instructors	:	Mr.K Panneer Selvam, AP/Mech, Mr. J. Prince Jerome Christopher, AP/Mech Mr.V. Nagarajan, AP/Mech Mr.K.Lakshmana babu AP/Mech

### Course Outcome

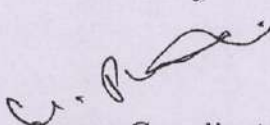
The students will be able to

1. Navigate through the user interface of Autodesk Fusion 360
2. Understand design process in Autodesk Fusion 360
3. Create conceptual design and organic forms using T-Splines
4. Design mechanical parts using solid modeling tools
5. Create mechanical assemblies and motion studies
6. Collaborate with other members of the project and manage the data in the cloud
7. Create drawings and renderings
8. Use CAM module to setup 2.5-axis milling of a part

Course type : Theory and Practical

### Assessment Mode

Attendance	:	30 periods'
Number of participants	:	93
Scheme of exam	:	MSQ
Date of exam	:	17.02.20 (batch-1) and 17.02.20 (batch-2)

  
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## DEPARTMENT OF MANAGEMENT STUDIES

### Course Summary

Course Code and Name	:	MBA19201 Strategic Management of Innovation
Course duration	:	33 Hrs
Year offered	:	2019-20
Course Instructors	:	Ms.S.Nandhini
Course Outcome	:	

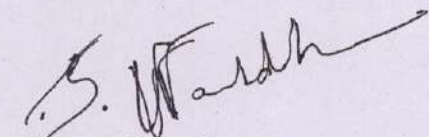
The students will be able


To effectively communicate change management strategies in various forums to an array of audiences with accuracy, clarity, specificity and professionalism

Course type : Theory and Practical

#### Assessment Mode

Attendance	:	33 periods
Number of participants	:	36
Scheme of exam	:	MCQ with Q & A
Date of exam	:	25.06.2019

  
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TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.  
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Ph: 0431 – 2660 303

## DEPARTMENT OF MANAGEMENT STUDIES

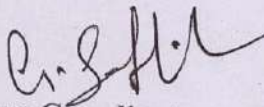
### Course Summary

Course Code and Name	:	MBA19202 Digital Marketing
Course duration	:	35 Hrs
Year offered	:	2019-20
Course Instructors	:	G.Sathishkumar
Course Outcome	:	

The students will be able

To gain this digital marketing certification will assure you the most essential skills and knowledge required to excel as a digital professional.

Course type	:	Theory and Practical
Assessment Mode	:	
Attendance	:	35 periods
Number of participants	:	36
Scheme of exam	:	MCQ with Q & A
Date of exam	:	30.09.2019

  
Course Coordinator

  
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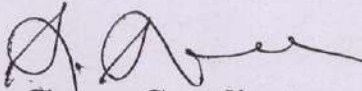
## Course Summary (NPTEL)

Course Offered Year: 2019-2020

Sl.No	Course Name	Course Duration	Course Outcome
1.	Product Design using Value Engineering	4 Weeks	<ul style="list-style-type: none"><li>The student can identify different areas of Product Development &amp; Value Engineering.</li><li>Can find the applications of all the areas in day to day</li></ul>
2.	Robotics	8 Weeks	<ul style="list-style-type: none"><li>Industrial robots: Structure and applications.</li><li>Robot kinematics, coordinate frames, and Jacobian matrices.</li><li>Robot dynamics.</li><li>Control systems for motion control and control of interaction forces.</li></ul>
3.	Python for Data Science	4 Weeks	<ul style="list-style-type: none"><li>Know basic data types in Python.</li><li>Know operators, how to clean and merge datasets.</li><li>Know pandas library, the main methods for DataFrames.</li><li>Know how to import data in Python</li></ul>
4.	Product Design and Innovation	4 Weeks	<ul style="list-style-type: none"><li>Use the Product Design and Development Process, means to manage the development of an idea from concept through to production.</li><li>Employ research and analysis methodologies as it pertains to the product design process, meaning, and user experience.</li><li>Apply creative process techniques in synthesizing information, problem-solving and critical thinking.</li><li>Demonstrate and employ hand drawing and drafting principles to convey concepts.</li></ul>
5.	Signals and Systems	12 Weeks	<ul style="list-style-type: none"><li>Classify the continuous and discrete time signals systems.</li><li>Apply Fourier concepts to analyze the continuous Systems</li><li>Apply DTFT and Z transform for the analysis of discrete time signals</li><li>Determine the discrete time system response using DTFT and Z transform</li></ul>

  
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Sl.No	Course Name	Course Duration	Course Outcome
6.	Control Engineering	12 Weeks	<ul style="list-style-type: none"> <li>• Understand the basic concepts of control systems, pole, zero and can analyze system stability on that basis.</li> <li>• Develop electrical models/ mechanical models to design a physical system for a specific operation.</li> <li>• Understand and implement mathematical tools (such as SFG) to analyze a complete system.</li> <li>• Understand, define different time domain specification parameters and thus can apply that knowledge to conclude dynamic performance of a system</li> </ul>
7.	Production and Operation Management	12 Weeks	<ul style="list-style-type: none"> <li>• Gaining knowledge about managing production processes.</li> <li>• How to run operations effectively.</li> <li>• Better understanding of modern production techniques.</li> <li>• Better understanding of quality management.</li> <li>• Management skills needed for the effective operations management.</li> </ul>

  
Course Coordinator

  
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