



# Sri Indu Institute of Engineering & Technology

Recognized Under 2(f) of UGC Act 1956

Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510.

Campus Ph: 9640590999, 9347187999, 8096951507.

<https://siiet.ac.in>

## DEPARTMENT OF MECHANICAL ENGINEERING


### VALUE ADDED COURSE

DATE: 05.08.2019

## CIRCULAR

This is to inform the B Tech Mechanical Engineering Students that the classes for the Value Added Courses for the academic year 2019 – 20 for the regulation R18. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	MECH	II	IC ENGINES

  
Training In-charge

  
PRINCIPAL

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Sri Indu Institute of Engineering & Tech  
Sheriguda(V), Ibrahimpatnam(M).  
R.R. Dist. Telangana. -501 510



## Sri Indu Institute of Engineering & Technology

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Departments of Mechanical Engineering

Conducts Technical Training

On

# IC ENGINES

From 19<sup>th</sup> August 2019 to 27<sup>st</sup> August 2019

From 09:30 AM to 04:30 PM

Resource persons:

1.Mr. Dr.Shivakanandan

Participants:

➤ II B tech MECH Students

Training In-charge

  
HOD

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## IC ENGINES

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction to IC Engine, Classification of IC engines	Requirements & type of diesel injection system, fuel pump, injectors & nozzles
2	Stages of CI engine combustion, Effect of engine variables on delay periods	Diesel Knock & methods of control in CI engine combustion chambers
3	Fuel combustion & Fuel injection, Stages of SI engine combustion	performance of SI and CI Engines
4	Cooling and Lubricating Systems	Air cooling and Water cooling system, Types of lubricating system engine emission & its harmful effect
5	comparison of gas turbine with reciprocating IC engine and steam turbine	Methods of measuring pollutants and control of engine emission
6	Brief discuss about Thermodynamic cycle	Regenerative gas turbine cycle, reheat gas turbine cycle
7	Application of gas turbine & automotive gas turbine	Overall discussion & interaction with students on IC Engine topics

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## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

### VALUE ADDED COURSE

DATE: 15.09.2019

## CIRCULAR

This is to inform the B Tech Computer science Engineering Students that the classes for the Value Added Courses for the academic year 2019 – 20 for the regulation R16. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	CSE	III	ADVANCE JAVA AND J2EE USING ECLIPSE

  
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Departments of Computer Science Engineering

Conducts Technical Training

On

## **ADVANCE JAVA AND J2EE USING ECLIPSE**

From 23<sup>rd</sup> Sep 2019 to 4<sup>th</sup> Oct 2019

From 09:30 AM to 04:30 PM

Resource persons:


1.Mr. Dr. K Sadhashiva Rao

Participants:

➤ III B tech CSE Students

  
Training In-charge

  
HOD

  
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### ADVANCE JAVA AND J2EE USING ECLIPSE

#### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction to j2ee, oops features	Advance component, jdbc
2	Sql, driver used in jdbc	Connection style, connection pooling
3	Execution of non-select sql queries, execution of select sql query	Execution of pl/sql programs, jdbc with data dictionary
4	Transaction & batch processing, advance features of jdbc	Html 5, style sheet
5	Javascript, bootstrap	Ajax, jquery
6	Servlet, creation of servlets	Request and response mechanism in servlet, database operation in servlet
7	Filter & listener, session tracking	Login & registration, jsp
8	Jsp tags, jsp implicit object	Jstl, java mail
9	Jpa web app (tomcat), eclipse jpa web app	Create a web project, define a jpa entity class
10	Add a context listener class, add a servlet class	Add a jsp page, run the web application

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## DEPARTMENT OF CIVIL ENGINEERING

### VALUE ADDED COURSE

DATE: 05.08.2019

## CIRCULAR

This is to inform the B Tech Civil Engineering Students that the classes for the Value Added Courses for the academic year 2019 – 20 for the regulation R18. Hence requesting all the interested students to register the following value added courses.

S	Program	Branch	Year	Value Added Course
1	B Tech	CIVIL	II	Advance surveying Technologies using TOTAL

Training In-charge

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Departments of Civil Engineering

Conducts Technical Training

On

**Advance surveying Technologies using**  
**TOTAL Station**

From 19<sup>th</sup> August 2019 to 23<sup>rd</sup> August 2019

From 09:30 AM to 04:30 PM

Resource persons:

1. Mr. G. Ganesh

Participants:

➤ II B tech CIVIL Students

Training In-charge

HOD

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## Advance surveying Technologies using TOTAL

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction	Fundamental parameters of total station
2	Precautions to be taken while using a total station	field equipment setup, Setting up a back sight
3	Measurment with total station, initial setting	Total station Radial shooting, Traverse
4	Survey station description, Occupied point, Data retrival	Construction layout using total station
5	Overview of computerised Survey Data systems	Data gathering, data processing components of the system, Data plotting
6	Employment Communication – Resume	Employment Communication – Job Interview

  
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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### VALUE ADDED COURSE

DATE: 20.05.2019

## CIRCULAR

This is to inform the B Tech Electronics and Communication Engineering Students that the classes for the Value Added Courses for the academic year 2019 – 20 for the regulation R18. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	ECE	II	IoT Implementation Using Raspberry Pi

  
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### Departments of Electronics and Communication Engineering Conducts Technical Training

On

### IoT Implementation using Raspberry Pi

From 27<sup>th</sup> May 2019 to 04<sup>th</sup> June 2019

From 09:30 AM to 04:30 PM

Resource persons:

1.Mr. Dr. Maheshwar reddy

Participants:

➤ II B tech ECE Students

  
Training In-charge

  
HOD

  
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## IoT Implementation Using Raspberry Pi

### Course Content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	IOT Social Distancing & Monitoring Robot For Queue.	Driver drowsiness system for accident preventions.
2	Face recognition door lock system using Raspberry Pi	Raspberry Pi based weather reporting Over IOT.
3	Raspberry Pi Air And Noise Pollution Monitoring System IOT.	Raspberry Pi Wheel Chair With Safety System.
4	IOT Garbage Monitoring Using Raspberry Pi.	Smart Door Receptionist With Smart Lock System.
5	Speaking System For Mute People Using Hand Gestures.	IOT Based Monitoring System For Comatose Patients.
6	Pi Based Vehicle Starter On face Detection.	Raspberry Pi speaking bus Stop Remainder.
7	Raspberry Pi Based Reader For Blind.	IOT Based Anti Theft Floring System using Raspberry Pi.
8	Drunk and Drive Detection with car ignition.	Waste And garbage Recycling vending machine Project.

  
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## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

### VALUE ADDED COURSE

DATE: 01.03.2019

## CIRCULAR

This is to inform the B Tech Computer science Engineering Students that the classes for the Value Added Courses for the academic year 2018 – 19 for the regulation R18. Hence requesting all the interested students to register the following value added courses.

S.No.	Program Name	Branch	Year	Value Added Course
1	B.Tech	CSE	I	Mobile Application Development

  
Training In-charge

  
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Departments of Computer Science Engineering

Conducts Technical Training

On

## **Mobile Application Development**

From 11<sup>th</sup> March 2019 to 16<sup>th</sup> March 2019

From 09:30 AM to 04:30 PM

Resource persons:

1.Mr. Dr. Chandhu naik

Participants:

➤ I B tech CSE Students

Training In-charge

HOD

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## Mobile Application Development

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction, Introduction to Mobile Computing, Android Development Environment	Factors in Developing Mobile Applications, Mobile Software Engineering, Frameworks and Tools, Generic UI Development, Android User
2	Intents and Services, Android Intents and Services, Characteristics of Mobile Applications, Successful Mobile Development	Storing and Retrieving Data, Synchronization and Replication of Mobile Data, Getting the Model Right, Android Storing and Retrieving Data, Working with a Content Provider.
3	Communications Via Network and the Web, State Machine, Correct Communications Model, Android Networking and Web.	Telephony, Deciding Scope of an App, Wireless Connectivity and Mobile Apps, Android Telephony
4	Notifications and Alarms, Performance, Performance and Memory Management, Android Notifications and Alarms	Graphics, Performance and Multithreading, Graphics and UI Performance, Android Graphics
5	Multimedia, Mobile Agents and Peer-to-Peer Architecture, Android Multimedia	Location, Mobility and Location Based Services, Android
6	Putting It All Together (as time allows), Packaging and Deploying, Performance Best Practices c. Android Field Service App	Security and Hacking (as time allows), Active Transactions, More on Security, Hacking Android

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE

DATE: 01.03.2019

## CIRCULAR

This is to inform the B Tech Mechanical Engineering Students that the classes for the Value Added Courses for the academic year 2018 – 19 for the regulation R16. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	MECH	III	Image processing using MAT lab

  
Training In-charge

  
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Departments of Mechanical Engineering

Conducts Technical Training

On

## **Image processing using MAT lab**

From 11<sup>th</sup> March 2019 to 16<sup>th</sup> March 2019

From 09:30 AM to 04:30 PM

Resource persons:

1. Dr. N V S Raju

Participants:

➤ III B tech MECH Students

Training In-charge

HOD

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## Image processing using MAT lab

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Digital Image fundamentals	2-Dimensional FFT, Properties
2	Image Enhancement in Spatial Domain	Types of Point Operation
3	Generating Filters Directly in the Frequency Domain	Detection of discontinuities
4	Region oriented segmentation	Structuring Element Decomposition
5	Combining Dilation and Erosion	Image Compression Models
6	Sampling and quantization, Image Conversion process in Mat lab	Image Processing Toolbox, applications of digital image processing

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## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### VALUE ADDED COURSE

DATE: 01.03.2019

## CIRCULAR

This is to inform the B Tech Electronics and Communication Engineering Students that the classes for the Value Added Courses for the academic year 2018 – 19 for the regulation R15. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	ECE	IV	VLSI-ASIC design

Training In-charge

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Departments of Electronics and Communication Engineering

Conducts Technical Training

On

### VLSI –ASIC Design

From 11<sup>th</sup> March 2019 to 20<sup>th</sup> March 2019

From 09:30 AM to 04:30 PM

Resource persons:

1.Mr. Dr. K Ashok Babu

Participants:

➤ IV B tech ECE Students

Training In-charge

HOD

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## VLSI-ASIC design

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	A Smart-Grid Simulator retargeting VCSVMM technology.	Algorithmic Graph Theory
2	An Efficient Methodology For Achieving Optimal Power And Speed In ASIC.	Analog to Digital Converter in Wireless Local Area Network.
3	Clock Dividers Made Easy.	Clocking in digital systems.
4	CMOS inverter.	Design And Fast Implementation Of G726 ADPCM Codec for Audio And Speech Applications.
5	Development of CPLD based memory controller for MPC 603E PPC based single board computer.	Faults In Digital Testing Systems.
6	Image Enhancement in the Spatial Domain1.	Image Enhancement in the Spatial Domain2.
7	Clocking in digital systems.	Static CMOS.
8	Technology of Rocket.	VHDL & Digital Circuit Design.

  
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## DEPARTMENT OF CIVIL ENGINEERING

### VALUE ADDED COURSE

DATE: 05.09.2018

## CIRCULAR

This is to inform the B Tech Civil Engineering Students that the classes for the Value Added Courses for the academic year 2018 – 19 for the regulation R16. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	CIVIL	II	AUTO CADD

  
Training In-charge

  
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Departments of Civil Engineering

Conducts Technical Training

On

**AUTOCADD**

From 17<sup>th</sup> Sep 2018 to 27<sup>rd</sup> Sep 2018

From 09:30 AM to 04:30 PM

Resource persons:

1. Mr. G. Jeevan

Participants:

➤ II B tech CIVIL Students

  
Training In-charge

  
HOD

  
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## AUTO CADD

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction to AUTOCADD 2D	Object property & layer management
2	Drawing geometry	Tools for creating key geometry
3	Creating drawing sheets	Dimensioning & annotating drawings
4	Plotting and Printing	Introduction about 3D
5	Introduction to AUTOCADD 3D	Project management
6	Parcels	Survey
7	Surface	Allignments
8	Profiles	Corridors
9	Grading, pipe networks	Plan production
10	practice session I	Overview

  
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## DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

### VALUE ADDED COURSE

DATE: 09.10.2017

## CIRCULAR

This is to inform the B Tech Computer science Engineering Students that the classes for the Value Added Courses for the academic year 2017 – 18 for the regulation R16. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	CSE	II	Training - C programming

  
Training In-charge

  
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Conducts Technical Training

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## **Training - C programming**

From 16<sup>th</sup> Oct 2017 to 21<sup>st</sup> Oct 2017

From 09:30 AM to 04:30 PM

Resource persons:

1.Mr. M Parashuram

Participants:

➤ II B tech CSE Students

Training In-charge

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## Training - C programming

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction to Principles of programming	Introduction to C Programming
2	Operators and Expressions	Data Types and Input/ Output Operators
3	Control Statements and Decision Making	Arrays and Strings
4	Pointers – I:Pointers -2	Structures and Unions
5	Functions: Storage Classes	The Preprocessor
6	Dynamic Memory Allocation and Linked List	File Management

  
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Sheriguda(VIII), Ibrahimpatnam  
R.R. Dist. Telangana -501 510



# Sri Indu Institute of Engineering & Technology

Recognized Under 2(f) of UGC Act 1956

Approved by AICTE, New Delhi Affiliated to JNTUH, Hyderabad.

Main Road, Sheriguda, Ibrahimpatnam, R.R. Dist. 501 510.

Campus Ph:9640590999, 9347187999, 8096951507.

<https://siiet.ac.ir>

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

### VALUE ADDED COURSE

DATE: 09.10.2017

## CIRCULAR

This is to inform the B Tech Electronics and Communication Engineering Students that the classes for the Value Added Courses for the academic year 2017 – 18 for the regulation R15. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	ECE	III	Advance Embedded System

  
Training In-charge

  
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Departments of Electronics and Communication Engineering

Conducts Technical Training On

# **Advance Embedded System**

From 16<sup>th</sup> Oct 2017 to 23<sup>rd</sup> Oct 2017

From 09:30 AM to 04:30 PM

Resource persons:

1. Mr. Dr. D. Ramakrishna

Participants:

➤ III B tech ECE Students

Training In-charge

HOD

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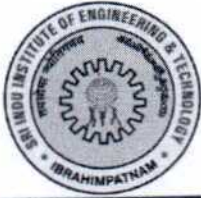
<https://siiet.ac.in>

## Advance Embedded System

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Embedded Systems Design with FPGAs, Optimization Embedded Systems Design: Challenges	Design Methodologies for Secure Embedded Systems, The art of designing embedded systems
2	Design Technology for Heterogeneous Embedded Systems, Communicating embedded systems software and design	Integrated Design Tools for Embedded Control Systems, Integrated Design Tools for Embedded Control Systems
3	Efficient Design Methods for Embedded Communication Systems	Applications of scenarios in early embedded system design space exploration
4	Embedded systems design with special arithmetic and number systems	Fast and eComputers as components principles of embedded computing system design
5	Embedded Systems Design with 8051 Microcontrollers	Feature-based component model for design of embedded systems
6	Modelling and Analyses of Embedded Systems Design	effective embedded systems design applying the ARM mbed
7	Dealing with dynamism in embedded system design	Dealing with dynamism in embedded system design

  
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## DEPARTMENT OF CIVIL ENGINEERING

### VALUE ADDED COURSE

DATE: 10.10.2017

## CIRCULAR

This is to inform the B Tech Civil Engineering Students that the classes for the Value Added Courses for the academic year 2017 – 18 for the regulation R16. Hence requesting all the interested students to register the following value added courses.

S No.	Program Name	Branch	Year	Value Added Course
1	B Tech	CIVIL	II	AUTO CADD

  
Training In-charge

  
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Departments of Civil Engineering

Conducts Technical Training

On

**AUTO CADD**

From 16<sup>th</sup> Oct 2017 to 26<sup>th</sup> Oct 2017

From 09:30 AM to 04:30 PM

Resource persons:

1. Mr. Sanjeev Rao

Participants:

➤ II B tech CIVIL Students

  
Training In-charge

  
HOD

  
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## AUTO CADD

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction to AUTOCADD 2D	Object property & layer management
2	Drawing geometry	Tools for creating key geometry
3	Creating drawing sheets	Dimensioning & annotating drawings
4	Plotting and Printing	Introduction about 3D
5	Introduction to AUTOCADD 3D	Project management
6	Parcels	Survey
7	Surface	Allignments
8	Profiles	Corridors
9	Grading, pipe networks	Plan production
10	practice session I	Overview

  
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## DEPARTMENT OF MECHANICAL ENGINEERING

### VALUE ADDED COURSE

DATE: 09.10.2017

## CIRCULAR

This is to inform the B Tech Mechanical Engineering Students that the classes for the Value Added Courses for the academic year 2017 – 18 for the regulation R15. Hence requesting all the interested students to register the following value added courses.

S No	Program Name	Branch	Year	Value Added Course
1	B Tech	MECH	III	3D Printing

  
Training In-charge

  
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Departments of Civil Engineering

Conducts Technical Training

On

# **3D Printing**

From 16<sup>th</sup> Oct 2017 to 23<sup>st</sup> Oct 2017

From 09:30 AM to 04:30 PM

Resource persons:

1.Mr. Dr. Aleem Pasha

Participants:

➤ III B tech MECH Students

  
Training In-charge

  
HOD

  
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## 3D Printing

### Course content:

DAY	FORENOON SESSION	AFTERNOON SESSION
1	Introduction to 3D printing Technology	3D Printing Processes
2	3D Printing Materials	Liquid based systems
3	laser and laser scanning	Solid based systems
4	Powder Based Systems	Additive Manufacturing Equipment
5	Product Quality	Comparison of Additively manufactured product with conventional manufactured counterpart.
6	Direct Metal Deposition (DMD)	Slicing and various slicing procedures.
7	Recent Developments in 3D printing	3D Printing Applications

  
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