



POORNIMA

COLLEGE OF ENGINEERING

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*Certificate/ Add-on/ Value added
programs – Summary Sheets
(Session 2020-21)*

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Add-on Courses
Summary Report
DEPARTMENT OF CIVIL ENGINEERING



POORNIMA

COLLEGE OF ENGINEERING

Department of Civil Engineering

Even Semester- 2020-21

Add-on Course- *Advance Building Construction and Drawing*

(AOC-DEP-CIV-ABCD)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Apply the concept of building material and construction like building bye-laws, mix design, Sustainable building and construction.
CO2	Develop programs using REVIT software, architectural and structural drawing using AUTOCAD Software
CO3	Demonstrate the use of material for quality assurance using NDT Technique, instrumental adjustments technique by surveying.
CO4	Design solutions of real-world civil engineering problems using bar bending Schedule, Estimating & Costing

Sr. No.	Particulars	Remark
1.	Year	4 th Year
2.	Semester	VII Semester
3.	No of Student Enrolled	66
4.	No of Student certified	54
5.	Overall remark by feedback	As per the feedback, This Course should be done via. Field exposure. Students should be gain the knowledge from live site. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Department will be used and assign the subject's syllabus according to field requirements.



POORNIMA

COLLEGE OF ENGINEERING

Department of Civil Engineering

Even Semester- 2020-21

Add-on Course- *Analysis & Design of Tall Building*

(AOC-DEP-CIV-ADTB)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Describe the basic knowledge of tall building used in Architectural design
CO2	Apply the typical concept in analysis for building plan, elevation and section.
CO3	Discuss the bending moment and shear force for beams, columns, slabs and footings.
CO4	Apply the fundamental concept of design philosophies of Reinforced concrete member according to the IS code 456:2000

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	22
4.	No of Student certified	20
5.	Overall remark by feedback	As per the feedback, All parts of this course are very good for a Civil Engineer. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Department will be entertains the site engineer experience with students.



POORNIMA

COLLEGE OF ENGINEERING

Department of Civil Engineering

Even Semester- 2020-21

Add-on Course- *Building Information Modelling*

(AOC-DEP-CIV-BIM)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Describe the basic knowledge of BIM used in Architectural design
CO2	Apply the typical concept for building plan, elevation and section.
CO3	Create different building components like walls, doors, windows, stairs, roofs by using advance software like 3D Max.
CO4	Demonstrate the practical knowledge skill through software in the Orthographic and Isometric Projections drawing
CO5	Prepare map of residential and commercial buildings as per assumed specifications in the field of civil engineering

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	21
4.	No of Student certified	18
5.	Overall remark by feedback	As per the feedback, This software and study will be useful to entrepreneurship. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Department will be entertains and schedule the meeting with bussinessmen experience with students.



POORNIMA

COLLEGE OF ENGINEERING

Department of Civil Engineering

Even Semester- 2020-21

Add-on Course- *Residential House Planning as per NBC*

(AOC-DEP-CIV-RHPN)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Describe the basic knowledge of planning used in Architectural design
CO2	Apply the typical concept for drawing building plan, elevation and section.
CO3	Create different building components like walls, doors, windows, stairs, roofs as per provision of NBC
CO4	Demonstrate the practical knowledge skill through Orthographic and Isometric Projections drawing
CO5	Prepare map of residential and commercial buildings as per assumed specifications in the field of civil engineering

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	30
4.	No of Student certified	24
5.	Overall remark by feedback	As per the feedback, Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	In Future, Students should be able to submit one case study to any building construction according to NBC.



POORNIMA

COLLEGE OF ENGINEERING

Department of Civil Engineering

Even Semester- 2020-21

Add-on Course- *Sketch Up 3D Modelling*

(AOC-DEP-CIV-TDM)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	To remember the basic commands of Sketch up modeling
CO2	To understand the different plans of building like Orthographic projections, Isometric Projections
CO3	To Apply the typical Sketch up commands in software.
CO4	To Analyze the different Structural Component by using of Sketch up modeling's
CO5	To Prepare map of residential and commercial buildings as per assumed specifications in the field of civil engineering

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	35
4.	No of Student certified	29
5.	Overall remark by feedback	As per the feedback, Projector study will be used for class. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	In Future, Students should be able to submit and make a sketch up model as per requirements.



POORNIMA

COLLEGE OF ENGINEERING

Department of Computer Engineering

Even Semester- 2020-21

**Add-on Course- Microsoft Azure Academia Program: Azure AI Fundamentals
(AOC-DEP-CSE-AZAI)**

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Demonstrate fundamental understanding of the history of artificial intelligence (AI) and its foundations
CO2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.
CO3	Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.
CO4	Demonstrate proficiency developing applications in an 'AI language', expert system shell, or data mining tool.
CO5	Demonstrate proficiency in applying scientific method to models of machine learning

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	IIISemester
3.	No of Student Enrolled	74
4.	No of Student certified	71
5.	Overall remark by feedback	Overall feedback is good.
6.	Action to be taken for future batch	All objective of the course is achieved.


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COLLEGE OF ENGINEERING

Department of Computer Engineering

Even Semester- 2020-21

**Add-on Course- Microsoft Azure Academia Program: Python Programming
(AOC-DEP-CSE-AZPY)**

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Apply the programming constructs like variables, data structures and control flow structures
CO2	Develop programs using file handling, Object oriented paradigms, GUI controls
CO3	Demonstrate the use of exception handling, different libraries and database connectivity
CO4	Use Python IDEs like IDLE, Spyder, and PyCharm to develop programs
CO5	Design solutions of real-world computational problems using Python programs

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	76
4.	No of Student certified	69
5.	Overall remark by feedback	Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Use of Projector should be done in this courses for better understanding of the commands of options of the software.



POORNIMA

COLLEGE OF ENGINEERING

Department of Computer Engineering

Even Semester- 2020-21

**Add-on Course- Microsoft Azure Academia Program: Microsoft Azure Data Fundamentals
(AOC-DEP-CSE-AZDF)**

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to learn knowledge of core data concepts and related Microsoft Azure data services.
CO2	Students will be able to learn familiar with the concepts of relational and non-relational data
CO3	Students will be able to distinguish between the concepts of relational and non-relational data.
CO4	Students will be able to apply different types of data workloads such as transactional or analytical.
CO5	Students will be able to learn knowledge of core data concepts and related Microsoft Azure data services.

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	66
4.	No of Student certified	59
5.	Overall remark by feedback	The core data concepts and how they are implemented using Microsoft Azure data services was covered in this course. The objective of the course achieved.
6.	Action to be taken for future batch	NIL



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Department of Computer Engineering

Even Semester- 2020-21

**Add-on Course- Microsoft Azure Academia Program: Big Data
(AOC-DEP-CSE-AZBD)**

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Get data into Azure Data Lake Storage (ADLS)
CO2	Monitor and optimize the performance of your data lakes
CO3	Create and run a Stream Analytics job
CO4	Scale a Stream Analytics job
CO5	Monitor and troubleshoot errors in Stream Analytics jobs

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	V-VISemester
3.	No of Student Enrolled	60
4.	No of Student certified	51
5.	Overall remark by feedback	Students love the course. It goes deep into the foundations, and then finishes up with an actual lab where all participant learns by practice and achieved a milestone in big data.
6.	Action to be taken for future batch	Use new tool Apache for more practice.



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COLLEGE OF ENGINEERING

Department of Computer Engineering

Even Semester- 2020-21

**Add-on Course- Microsoft Azure Academia Program: POWER BI “DATA ANALYTICS”
(AOC-DEP-CSE-AZBI)**

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Student should be able to apply the basic knowledge of data mining, SQL and Data visualization.
CO2	Student should be able to analyze the queries, functions, techniques and Modeling of data.
CO3	Student should be able to design Dashboard and workspace by extracting and visualizing datasets.
CO4	Student should be able to create a dataset and based on that dataset design dashboard by extracting data.

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	V-VISemester
3.	No of Student Enrolled	69
4.	No of Student certified	65
5.	Overall remark by feedback	Students liked the fact that the datasets had been provided beforehand – a few students had a look before the day and it helped them. Others liked the fact that they can finish off after the course.
6.	Action to be taken for future batch	Students want more “follow-up” resources: including a list of resources for further study, notes/videos to take home.



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Department of Computer Engineering

Even Semester- 2020-21

**Add-on Course- Microsoft Azure Academia Program: Cloud Infrastructure and Security
(AOC-DEP-CSE-AZCI)**

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Apply cloud computing fundamental principles, including standard delivery models and service designs
CO2	Ability to analyze the foundational security practices that are required to secure modern cloud computing infrastructures.
CO3	Develop standard cloud security network designs and architecture models.
CO4	Develop complexity of cloud threat actors and techniques used to attack a cloud computing infrastructure.
CO5	Implement the regulatory requirements needed to secure data in the cloud.

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	V-VISemester
3.	No of Student Enrolled	60
4.	No of Student certified	53
5.	Overall remark by feedback	Cloud Infrastructure and Security course is the delivery of on-demand computing resources over the Internet. These resources include data storage, processing power, applications, physical servers, virtual servers, development tools, networking capabilities, and more for all the students.
6.	Action to be taken for future batch	More focus required on hands-on session for cloud security.



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Department of Computer Engineering

Even Semester- 2020-21

Add-on Course- Programming in Hadoop

(AOC-DEP-CSE-AZHD)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Apply the concepts of Big Data and Hadoop ecosystem.,
CO2	Ability to analyze the Hadoop distributed file system (HDFS) for storing big data files
CO3	Develop Leverage Hadoop as a reliable, scalable MapReduce framework.
CO4	Develop MapReduce programs and implementing HBase.
CO5	Implement Hive and Pig scripts.

Sr. No.	Particulars	Remark
1.	Year	4 th Year
2.	Semester	VII-VIIISemester
3.	No of Student Enrolled	59
4.	No of Student certified	52
5.	Overall remark by feedback	The course was excellent and the classes well taught by the Teachers.
6.	Action to be taken for future batch	The programming exercises could also be improved: they are based on a contrived example (TV shows and view counts).



POORNIMA

COLLEGE OF ENGINEERING

Department of Computer Engineering

Even Semester- 2020-21

Add-on Course- Data Science with Python

(AOC-DEP-CSE-DSPY)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Apply the programming constructs like variables, data structures and control flow structures
CO2	Develop programs using file handling, Object oriented paradigms, GUI controls
CO3	Demonstrate the use of pandas library, the main methods for DataFrames.
CO4	Use Python IDEs like IDLE, Spyder, and PyCharm to develop programs
CO5	Design solutions of real-world data science problems using Python programs

Sr. No.	Particulars	Remark
1.	Year	4 th Year
2.	Semester	VII-VIIISemester
3.	No of Student Enrolled	59
4.	No of Student certified	53
5.	Overall remark by feedback	Overall feedback is good.
6.	Action to be taken for future batch	More hands on session required



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COLLEGE OF ENGINEERING

Department of Computer Engineering

Even Semester- 2020-21

Add-on Course- Selenium Testing
(AOC-DEP-CSE-SETS)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Describe Selenium automated testing advantages
CO2	Deploying Selenium IDE functions and commands
CO3	Deploying JUnit and TestNG Plugin in Eclipse
CO4	Describe and use to Selenium WebDriver
CO5	Using Selenium Grid for software testing

Sr. No.	Particulars	Remark
1.	Year	4 th Year
2.	Semester	VII-VIIISemester
3.	No of Student Enrolled	59
4.	No of Student certified	55
5.	Overall remark by feedback	The course was excellent and the classes well taught by the Teachers.
6.	Action to be taken for future batch	More hands on exercise required


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Add-on Courses Summary Report

DEPARTMENT OF COMPUTER ENGINEERING

Add-on Courses Summary Report

DEPARTMENT OF ELECTRICAL ENGINEERING



POORNIMA

COLLEGE OF ENGINEERING

Department of Electrical Engineering

Even Semester- 2020-21

Add-on Course- (AOC-DEP-EE-EM)Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to identify standard tests for different electrical machines such as transformers, Generators etc.
CO2	Students will be able to Design and perform standard test sequence for electrical machines
CO3	Students will be able to Perform standard test sequence for different types of motors
CO4	Students will be able to Perform tests for housing electrical equipment's after installation

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1									3		3		3		
CO2									3						
CO3											3		3		
CO4											3				

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	40
4.	No. of student absent in Exam	4
5.	No. of Student not eligible for the certification	6
6.	No of Student certified	30
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments

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POORNIMA

COLLEGE OF ENGINEERING

Department of Electrical Engineering

Even Semester- 2020-21

Add-on Course- (AOC-DEP-EE-EM) Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to identify standard tests for different electrical machines such as transformers, Generators etc.
CO2	Students will be able to Design and perform standard test sequence for electrical machines
CO3	Students will be able to Perform standard test sequence for different types of motors
CO4	Students will be able to Perform tests for housing electrical equipment's after installation

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1									3		3		3		
CO2									3						
CO3											3		3		
CO4											3				

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	80
4.	No. of student absent in Exam	13
5.	No. of Student not eligible for the certification	17
6.	No of Student certified	50
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments


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COLLEGE OF ENGINEERING

Department of Electrical Engineering

Even Semester- 2020-21


Add-on Course- (AOC-DEP-EE-IOT)Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to explain the definition and usage of the term “Internet of Things” in different contexts
CO2	Students will be able to understand the key components that make up an IoT system
CO3	Students will be able to apply the knowledge and skills acquired during the course to build and test a complete, working IoT system involving prototyping, programming and data analysis
CO4	Students will be able to Recognize the factors that contributed to the emergence of IoT

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1										3				3	
CO2										3					
CO3										3				3	
CO4										3					

Sr. No.	Particulars	Remark
1.	Year	4 th Year
2.	Semester	VIII Semester
3.	No of Student Enrolled	100
4.	No. of student absent in Exam	23
5.	No. of Student not eligible for the certification	27
6.	No of Student certified	50
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments


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POORNIMA

COLLEGE OF ENGINEERING

Department of Electrical Engineering

Even Semester- 2020-21

Add-on Course- (AOC-DEP-EE-ARD)Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to Use communications technologies like Wifi, BLE, and radio
CO2	Students will be able to Use servo, DC and stepper motors with various controllers
CO3	Students will be able to Use LCD, OLED and TFT screens with buttons and touch interfases
CO4	Students will be able to Store data in external storage like SD Cards and EEPROM

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1											3			3	
CO2														3	
CO3											3				
CO4															

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	IVSemester
3.	No of Student Enrolled	50
4.	No. of student absent in Exam	11
5.	No. of Student not eligible for the certification	19
6.	No of Student certified	20
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments


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POORNIMA

COLLEGE OF ENGINEERING

Department of Electrical Engineering

Even Semester- 2020-21

Add-on Course- (AOC-DEP-EE-RSPI) Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to Use Python Turtle to draw Geometric Shapes
CO2	Students will be able to Use Python to develop application
CO3	Students will be able to Have an understanding of the fundamentals of programming concepts
CO4	Students will be able to decompose a complex problem into manageable code.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1				3											
CO2					3										3
CO3				3					3						3
CO4									3						

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	V Semester
3.	No of Student Enrolled	80
4.	No. of student absent in Exam	4
5.	No. of Student not eligible for the certification	16
6.	No of Student certified	60
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments


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COLLEGE OF ENGINEERING

Department of Electrical Engineering

Even Semester- 2020-21

Add-on Course- (AOC-DEP-EE-PVS)Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to design and professional sales proposal of solar plant using PVSyst software
CO2	Students will be able to add science, mathematics & art behind solar PV system design
CO3	Students will be able to use the knowledge of losses, 3D modeling and near shading analysis
CO4	Students will be able to apply responsive design for grid-connected PVSyst simulations of up to 1-2 MW

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1						3			3						3
CO2					3	3						3			3
CO3						3						3			
CO4							3		3						

Sr. No.	Particulars	Remark
1.	Year	4 th Year
2.	Semester	VIII Semester
3.	No of Student Enrolled	70
4.	No. of student absent in Exam	14
5.	No. of Student not eligible for the certification	16
6.	No of Student certified	40
7.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	More Time is required for the practice session. Proper Time to be managed to complete all the Experiments


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Add-on Courses Summary Report

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



POORNIMA

COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Even Semester- 2020-21

Add-on Course- Art of Technical Writing & Publishing Research Papers (AOC-DEP-ECE-TWP)

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Explain the basics of programming constructs like variables, data structures and numeric keys, commands etc.
CO2	Apply the skill of using high-quality typesetting system, for publication of research papers, thesis and book chapter
CO3	Write various types of formulae, equations, matrices etc.
CO4	Using LaTeX and Zotero Create Tables, Graphics and Pictures Lists, Arrays and Bibliography
CO5	Create Slides with Beamers and posters.

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	31
4.	No of Student certified	29
5.	Overall remark by feedback	Overall activity is good for enhancing writing skills. However, it requires more Hands on Practice sessions.
6.	Action to be taken for future batch	More time is dedicated to the Hands on Training session as compared to theory session.



POORNIMA

COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Even Semester- 2020-21

Add-on Course- Pspice: A Modelling Tool (AOC-DEP-ECE-PSP)

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the main features and importance of the PSPICE programming environment.
CO2	Apply knowledge of simulation software for analyzing the various circuits
CO3	Acquaint students with the Installation Process & steps for creating Circuit Using Pspice
CO4	Evaluate the circuits response with the help of measurements in Pspice environment
CO5	Simulation of various Analog and Digital Circuits using Pspice.

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	IV Semester
3.	No of Student Enrolled	42
4.	No of Student certified	36
5.	Overall remark by feedback	Workshop feedback was good. New software therefore hard to understand.
6.	Action to be taken for future batch	II year students are new to understanding the concepts of analog and digital circuits. Try to arrange more theory classes to understand the concepts of circuits.



POORNIMA

COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Even Semester- 2020-21

Add-on Course- VLSI Circuit Design using Xilinx & Mentor Graphics Tools (AOC-DEP-ECE-VLSI)

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Provide fundamental hands-on experience on the state-of-the-art Cadence EDA tools for VLSI Design.
CO2	Apply knowledge on the Circuit Design & implement IC design solutions on FPGAs and using state-of-the-art EDA tools.
CO3	Demonstrate the Circuit Design & Simulation, Layout, Physical Verification (DRC, LVS), and Extraction.
CO4	Evaluate practice sessions on the Cadence design and simulation tools (Encounter, RTL Compiler, Virtuoso, Specter, Assura and Incisive).

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	44
4.	No of Student certified	40
5.	Overall remark by feedback	Overall feedback of the session was good and knowledgeable.
6.	Action to be taken for future batch	Time division is revised so that more time will be dedicated to practice sessions and will conduct workshops by expert speakers in this domain to incorporate good theory sessions also.



POORNIMA

COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Even Semester- 2020-21

Add-on Course- LabVIEW & its Hardware Application (AOC-DEP-ECE-LABV)

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Configure the general physical and software layouts of the LabVIEW programming environment.
CO2	Develop and edit functional block diagrams and front panels
CO3	Load, save, and debug Virtual Instruments and utilize composite data in the form of Arrays and Clusters
CO4	Control program execution through structures such as 'For-While' loops and 'Case Structures'
CO5	Develop programs that respond to user interface events using a variety of event-driven design patterns

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	38
4.	No of Student certified	34
5.	Overall remark by feedback	Overall feedback is good and students require more session on lab view software.
6.	Action to be taken for future batch	In future work-shop we will plan industrial visit for students so that they will able to know about the embedded system used in Lab View.



POORNIMA

COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Even Semester- 2020-21

Add-on Course- PCB Design & Simulation using PROTEUS Software (AOC-DEP-ECE-PCBD)

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Determine appropriate components to make circuits on Printed Circuit Board (PCB) and Proteus software
CO2	Interpret test results and measurements on electric circuits
CO3	Analyze the fabrication processes of printed circuit boards
CO4	Simulation of basic electronic circuits using software Proteus.
CO5	Evaluate an electronic printed circuit board for a specific application using industry standard software.

Sr. No.	Particulars	Remark
1.	Year	4 th Year
2.	Semester	VIII Semester
3.	No of Student Enrolled	40
4.	No of Student certified	35
5.	Overall remark by feedback	Very Easy and important software in designing PCB for project work
6.	Action to be taken for future batch	We have a very establish lab in our department for PCB designing so that our students can design different types of PCB and explore more in PCB designing.



POORNIMA

COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Even Semester- 2020-21

Add-on Course- Introduction to MATLAB (AOC-DEP-ECE-MATL)

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes	
CO1	Apply the Knowledge to the students with MATLAB software.	
CO2	Develop a working introduction to the Matlab technical computing environment	
CO3	Demonstrate the use of programming knowledge in Research and Development	
CO4	Use of a high-level programming language, Matlab. [Scientific problem solving with applications and examples from Engineering].	
CO5	Design solutions of real-world computational problems using Matlab programs	
Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	40
4.	No of Student certified	36
5.	Overall remark by feedback	Little bit hard to understand but the workshop is very important as it provides the knowledge of simulation.
6.	Action to be taken for future batch	Try to conduct project based batches for MTALB Simulation.

Add-on Courses Summary Report

DEPARTMENT OF INFORMATION TECHNOLOGY



POORNIMA

COLLEGE OF ENGINEERING

Department of Information & Technology

OddSemester- 2020-21

Add-on Course-Introduction to Python Programming(Course Id: AOC-DEP-IT-PYP)

COURSE OUTCOMES: After successful completion of this course Students will be able to:

S.No.	Course Outcomes
CO1	ExaminePythonsyntaxandsemantics andbe fluent inthe useofPython flowcontrol andfunctions.
CO2	Demonstrateproficiencyin handlingThreads,Fileand Exceptions.
CO3	Create,runandmanipulatePythonProgramsusingcoredatastructureslike Lists, Dictionariesand useRegularExpressions.
CO4	Interpretthe conceptsofGUIandWEBProgrammingas usedinPython.
CO5	Implement exemplaryapplicationsrelatedtoDatabaseProgrammingwithORMinPython.

Sr. No.	Particulars	Remark
1.	Year	2 nd Year (20 students), 3 rd Year(30 students)
2.	Semester	III Semester, V Semester
3.	No of Student Enrolled	50
4.	No of Student certified	43
5.	Overall remark by feedback	Students suggested that more focus is required on practice sets to enhance skill. Overall objective of the course has been achieved as per the feedback given by the participants.
6.	Action to be taken for future batch	<ul style="list-style-type: none">For skill based training programs more time will be given for practical or coding part so that students' skills can be enhanced.Mini projects will be assigned in groups.



POORNIMA

COLLEGE OF ENGINEERING

Department of Information Technology

Even Semester- 2020-21

Add-on Course- Web Design and Development (Course Id:AOC-DEP-IT-WEB)

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Use different functions, variables, syntax and different technical tools for building any application
CO2	Apply the knowledge of web technology in developing web applications.
CO3	Develop solution to problems using appropriate method, technologies, framework, and web services.
CO4	Implement small to large scale project to provide live solution in web application development fields.

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	IV Semester
3.	No of Student Enrolled	Total 64
4.	No of Student certified	53
5.	Overall remark by feedback	Overall objective of the course has been achieved as per the feedback given by the participants.
6.	Action to be taken for future batch	<ul style="list-style-type: none">For skill based training programs more time will be given for practical or coding part so that students' skills can be enhanced.Mini projects will be assigned in groups.

Add-on Courses Summary Report

DEPARTMENT OF MECHANICAL ENGINEERING



POORNIMA

COLLEGE OF ENGINEERING

Department of Mechanical Engineering

Even Semester- 2020-21

Add-on Course- AOC-DEP-ME-SWS- "SOLID WORKS" (AOC-DEP-ME-SW)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand sketcher profile toolbar, modification toolbar, constraining toolbar, ISO constraining of sketches using sketcher module of SOLID WORKS.
CO2	Creation of solids with following toolbars in part design module of SOLID WORKS: Sketch based features, Dress up features, Reference elements etc.
CO3	Generate 2D drawings with dimensions, tolerances & surface finish from 3D model. Generate assembly drawings with BOM.
CO4	Prepare assembly models using top down and bottom up approach. Generate assembly constraints, flexible assemblies, use of patterns in assembly.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	-	-	3	-	-	-	-	-	-	2	-	3	2
CO2	-	3	-	-	3	-	-	-	-	-	-	2	-	3	2
CO3	-	2	-	-	3	-	-	-	-	-	-	2	-	3	2
CO4	-	-	3	-	3	-	-	-	-	-	-	2	-	3	2

Sr. No.	Particulars	Remark
1.	Year	3 rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	75
4.	No. of student absent in Exam	13
5.	No. of Student not eligible for the certification	04
6.	No of Student certified	56
7.	Overall remark by feedback	As per the feedback, Overall objective of the course has been achieved by the feedback given by the participants.
8.	Action to be taken for future batch	Punctuality of Students required to complete all the Experiments. More Time is required for the practice session.


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POORNIMA

COLLEGE OF ENGINEERING

Department of Mechanical Engineering

Even Semester- 2020-21

Add-on Course- Basics of Automobile Engineering

(AOC-DEP-ME-BAE)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Explain the working of different parts of an automobile.
CO2	Apply the knowledge of engine, transmission, clutch and brakes for smooth functioning of vehicles.
CO3	Analyze the study of an angle for steering and the suspension systems.
CO4	Design and develop a strong base for understanding future developments in the automobile industry.

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	60
4.	No of Student certified	34
5.	Overall remark by feedback	As per the feedback, students able to learn the concept of automobile in online mode especially to working on four stroke and two stroke engine. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	In future point of view engine assembly and disassembly should be done by the students.



POORNIMA

COLLEGE OF ENGINEERING

Department of Mechanical Engineering

Even Semester- 2020-21

Add-on Course- Advances of Automobile Engineering

(AOC-DEP-ME-AAE)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Explain the basics of electric and hybrid electric vehicles, their architecture, technologies and fundamentals for the exhaust & features.
CO2	Apply the knowledge of ignition and lighting system for the working of an automobile systems.
CO3	Analyze the use of different power converters and electrical system in hybrid electric vehicles.
CO4	Create a strong base of HEV for understanding the future developments in the HEV.

Sr. No.	Particulars	Remark
1.	Year	2 nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	60
4.	No of Student certified	34
5.	Overall remark by feedback	As per the feedback, students able to learn the concept of automobile especially to working on Hybrid & Electrical vehicle. Overall objective of the course has been achieved by the feedback given by the participants.
6.	Action to be taken for future batch	In future point of view battery charging system and working on the electric vehicle will be helpful for the students.

Add-on Courses Summary Report

DEPARTMENT OF FIRST YEAR



POORNIMA

COLLEGE OF ENGINEERING

Department of First Year

ODD Semester- 2020-21

Add-on Course-Project Based Learning (AOC-DEP-FY-PBL)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to have knowledge about various electronics components.
CO2	Students will be able to analyze selection of sensors and motors
CO3	Students will be able to develop their software collaborating with hardware programming skills.
CO4	Students will be able to Design various types of Real world projects

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	I Semester
3.	No of Student Enrolled	374
4.	No of Student certified	374
5.	Overall remark by feedback	As per the feedback, more analysis related to motors must be done.. Overall objective of the course has been achieved by the feedback given by the participants.
6.	Action to be taken for future batch	More motors related problems for better understanding, learning and improving the skill sets of the student.



POORNIMA

COLLEGE OF ENGINEERING

Department of First Year

Even Semester- 2020-21

Add-on Course-Logical Reasoning and Technical skill Development (AOC-DEP-FY-LRTS)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Students will be able to have knowledge about number system, quadratic equation, percentage, simple interest, compound interest, probability, permutation - combination and Vedic mathematics.
CO2	Students will be able to analyze the problems related to syllogism, patterns, puzzles and solve them.
CO3	Students will be able to develop their soft skills like communication skill (both speaking skill and writing skill). They will study basic rules of English grammar to improve their communication.
CO4	Students will be able to improve their reasoning and logical thinking and also apply short cut tricks to solve the problems fast.

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	II Semester
3.	No of Student Enrolled	374
4.	No of Student certified	374
5.	Overall remark by feedback	As per the feedback, more emphasis should be given on syllogism solving problems. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	More emphasis on usage of syllogism for improving verbal ability of the student.



POORNIMA

COLLEGE OF ENGINEERING

Department of First Year

Odd Semester- 2020-21

Add-on Course-Skill Development Program in Project oriented training (AOC-DEP-FY-SDPP)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the knowledge of basic machine tools related to the electrical as well as mechanical engineering.
CO2	Apply the knowledge of some engineering softwares like EAGLE and Auto CAD in the industrial field by making some capstan projects.
CO3	Analyze some basic problems in the field of electrical as well as mechanical engineering with the help of some advanced engineering tools and softwares for example Auto Cad, EAGLE, Basic Machine Tools and SMD Components.
CO4	Evaluate themselves by working on some basic and fundamental projects with the help of some advanced engineering tools and softwares like Auto Cad, EAGLE, Basic Machine Tools, and SMD Components.
CO5	Design & create some basic projects of ROBO Car with the help of some advanced engineering tools and softwares like Auto Cad, EAGLE, Basic Machine Tools, and SMD Components.

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	I Semester
3.	No of Student Enrolled	93
4.	No of Student certified	91
5.	Overall remark by feedback	As per the feedback, study should be done by Projector & and more design related tool should be used. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Use of Projector and software such as Eagle, AutoCAD should be done in this electrical lab for better understanding of the commands of options of the software.



POORNIMA

COLLEGE OF ENGINEERING

Department of First Year

Even Semester- 2020-21

Add-on Course-Skill Development Program in Advanced C (AOC-DEP-FY-ACP)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the basic concepts of C programming
CO2	Design and develop various programming problems using C programming concepts
CO3	Implement advance C programming concepts like function, pointer, structure, union and file handling.
CO4	Develop the project using concept of advance and data structure

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	II Semester
3.	No of Student Enrolled	12
4.	No of Student certified	12
5.	Overall remark by feedback	As per the feedback, the study should be conducted using a projector, and more emphasis should be placed on finding solutions to file handling problems. According to the participant feedback, the course's overall goal has been achieved.
6.	Action to be taken for future batch	Use of Projector should be done in this C-Programming lab for better understanding of the commands of options of the software.



POORNIMA

COLLEGE OF ENGINEERING

Department of First Year

Even Semester- 2020-21

Add-on Course-Machine Learning-Deep Learning

(AOC-DEP-FY-SDPML)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understanding the fundamentals of Image Processing, Data Science, Python for Machine Learning and artificial intelligence (AI).
CO2	Apply basic principles of Machine Learning in solutions that require problem solving, inference, perception, knowledge representation, and learning.
CO3	Analyzing basic machine learning algorithms.
CO4	Design solutions of real-world computational problems using ML and DL algorithms

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	II Semester
3.	No of Student Enrolled	140
4.	No of Student certified	138
5.	Overall remark by feedback	As per the feedback, study should be done by Projector & Exam to be taken online. Overall objective of the course has been achieved by the feedback given by the participant.
6.	Action to be taken for future batch	Use of Projector should be done in this Machine Learning lab for better understanding of the commands of options of the software.



POORNIMA

COLLEGE OF ENGINEERING

Department of First Year

Odd Semester- 2020-21

Add-on Course-Skill development program in web development using JAVASCRIPT and REACTJS (AOC-DEP-FY-SDPWD)

Summary Report

COURSE OUTCOMES: After successful completion of this course Students will be able to

S. No.	Course Outcomes
CO1	Understand the basic concepts of HTML, CSS and JavaScript.
CO2	Apply the concept of HTML, CSS, JavaScript for client-side scripts.
CO3	Analyze the significance of ReactJS client-side scripts.
CO4	Develop the Live Project using concept of JavaScript and ReactJS.

Sr. No.	Particulars	Remark
1.	Year	I Year
2.	Semester	I Semester
3.	No of Student Enrolled	129
4.	No of Student certified	126
5.	Overall remark by feedback	As per the feedback, study should be done by Projector & and more practice should be done on live projects using JavaScript. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Use of Projector should be done in this web development lab for better understanding of the commands of options of the software.