POORNIMA
COLLEGE OF ENGINEERING

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Certificate/ Add-on/ Value added programs – Summary Sheets
(Session 2021-22)

Add-on Courses
Summary Report
DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering

Even Semester- 2021-22
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, instrumentaladjustments technique by surveying.
CO4	Design solutions of real-world civil engineering problems using bar bending Schedule, Estimating & Costing

Sr. No.	Particulars	Remark
1.	**Year**	4th Year
2.	**Semester**	VII Semester
3.	**No of Student Enrolled**	43
4.	**No of Student certified**	38
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.

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Department of Civil Engineering
Even Semester- 2021-22
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	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	30
4.	No of Student certified	24
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.

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Department of Civil Engineering
Even Semester- 2021-22
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	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	35
4.	No of Student certified	29
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.

Department of Civil Engineering
Even Semester- 2021-22
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	2nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	30
4.	No of Student certified	28
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.

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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	2nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	30
4.	No of Student certified	27
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.

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Add-on Courses
Summary Report
DEPARTMENT OF COMPUTER ENGINEERING

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Department of Computer Engineering

Even Semester- 2021-22

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	2ⁿᵈYear
2.	Semester	IIISemester
3.	No of Student Enrolled	71
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	NIL

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POORNIMA
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Department of Computer Engineering
Even Semester- 2021-22
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	2ndYear
2.	Semester	IIISemester
3.	No of Student Enrolled	75
4.	No of Student certified	71
5.	Overall remark by feedback	Overall Feedback was good.
6.	Action to be taken for future batch	NIL

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Department of Computer Engineering
Even Semester- 2021-22
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 betweenthe 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	2nd Year
2.	Semester	IIISemester
3.	No of Student Enrolled	63
4.	No of Student certified	58
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	NIL

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Department of Computer Engineering

Even Semester- 2021-22

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	3rd Year
2.	Semester	V-VI Semester
3.	No of Student Enrolled	70
4.	No of Student certified	69
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 basic of cloud fundamental will cover.

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Even Semester- 2021-22

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	3rdYear
2.	Semester	V-VISemester
3.	No of Student Enrolled	70
4.	No of Student certified	69
5.	Overall remark by feedback	Power BI is a great tool for Visualization and reporting. Students basically use this tool as a means of analysing the maintenance data base.Because of this tool student can easily be able to find out the insights and bottle necks in data.
6.	Action to be taken for future batch	Overall feedback is good.

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Department of Computer Engineering
Even Semester- 2021-22
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	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	3rdYear
2.	Semester	V-VISemester
3.	No of Student Enrolled	70
4.	No of Student certified	69
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	Practice on Licenced Azure platform.

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Department of Computer Engineering
Even Semester- 2021-22
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	4th Year
2.	Semester	VII-VIII Semester
3.	No of Student Enrolled	63
4.	No of Student certified	57
5.	Overall remark by feedback	Programming in Hadoop course laid more emphasis on explaining technical topics with illustrations from real-world scenarios. This helps participants relate theory with practice and absorb dense technical details easily.
6.	Action to be taken for future batch	Hadoop distributed file system need more explanation for better understanding.

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Department of Computer Engineering
Even Semester- 2021-22
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	4thYear
2.	Semester	VII-VIIISemester
3.	No of Student Enrolled	60
4.	No of Student certified	53
5.	Overall remark by feedback	Course was completed on time. students fully satisfied with the quality of education provided by teacher and the hand on session was very good.
6.	Action to be taken for future batch	More real time dataset used for practice.

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Department of Computer Engineering

Even Semester- 2021-22

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	4th Year
2.	Semester	VII-VIIISemester
3.	No of Student Enrolled	60
4.	No of Student certified	55
5.	Overall remark by feedback	Students learn more about definitions from any book, but hardly involve in practice that what makes us perfect.
6.	Action to be taken for future batch	Overall feedback is good.

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Add-on Courses
Summary Report
DEPARTMENT OF ELECTRICAL ENGINEERING

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

S. No.	Course Outcomes
CO1	Students will be able to learn the generation of minimum 10 different typical unsafe Indian driving scenarios with all relevant driving objects /actors using IPG carmaker simulation tool.
CO2	Students will be able to learn to generate min 10 edge cases which are difficult for a conventional ADAS system to function in Indian driving condition.
CO3	Students will be able to learn the application of the most relevant ADAS sensors to ensure object detection, collision warning and collision avoidance in the identified unsafe driving scenarios
CO4	

	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									3	

Sr. No.	Particulars	Remark
1.	Year	2nd & 3rdYear
2.	Semester	III& VSemester
3.	No of Student Enrolled	40
4.	No. of student absent in Exam	21
5.	No. of Student not eligible for the certification	9
6.	No of Student certified	10
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

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Department of Electrical Engineering

Even Semester- 2021-22

Add-on Course- Enabling Technology for Electric Transportation (AOC-DEP-EE-ET)

Summary Report

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

S. No.	Course Outcomes
CO 1	Studentswillbeabletolearnaboutgovt.policiesforelectricvehiclesinIndia.
CO 2	Studentswillbeabletolearnabouttheelementused(Powerconverter,battery,charger&motoretc.)inElectricvehicles.
CO 3	Studentswillbeabletodesign&modellingofElectricvehicle.
CO 4	StudentswillbeabletolearnfuturetrendsinElectricvehicles.

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

Sr. No.	Particulars	Remark
1.	**Year**	4th Year
2.	**Semester**	VIIISemester
3.	**No of Student Enrolled**	50
4.	**No. of student absent in Exam**	0
5.	**No. of Student not eligible for the certification**	10
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 topic.

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

S. No.	Course Outcomes
CO1	Studentswillbeabletoexploredifferentfeatures,syntaxes,&toolboxesofMATLAB'ssoftware
CO2	Studentswillbeabletoapplyadvancedgraphicstoolfor2D/3Dplotting,graphicshandles,publicationqualitygraphics,andanimation.
CO3	StudentswillbeableAcquireareasonablelevelofcompetenceindesigningoptimizationalgorithms,solvelinearprogramming,constrainedandunconstrainedoptimizationproblemsbyMATLAB.
CO4	StudentswillbeabletoapplydifferentMATLABtools,OOP&compilesMATLABfordesigndifferentelectronicscircuits.

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

Sr. No.	Particulars	Remark
1.	Year	2th Year
2.	Semester	IVSemester
3.	No of Student Enrolled	13
4.	No. of student absent in Exam	4
5.	No. of Student not eligible for the certification	3
6.	No of Student certified	6
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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Department of Electrical Engineering

Even Semester- 2021-22
Add-on Course- Understanding Basics of Micro controller and Embedded Systems (AOC-DEP-EE-MCES) Summary Report

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

S. No.	Course Outcomes
CO1	Studentswill be able to Analyze the application requirement and determine system configuration
CO2	StudentswillbeabletoIntegratesensorsandwirelessconnectingcomponentswiththemicrocontrollerboard.
CO3	StudentswillbeabletoDesignandsimulatethecircuit
CO4	StudentswillbeabletoBuildprototypesbasedonsimulateddesignintoaworkingmodel

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

Sr. No.	Particulars	Remark
1.	Year	3rdYear
2.	Semester	VSemester
3.	No of Student Enrolled	60
4.	No. of student absent in Exam	9
5.	No. of Student not eligible for the certification	11
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

Department of Electrical Engineering
Even Semester- 2021-22
Introduction to Virtual Labs
Add-on Course- (AOC-DEP-EE-VL)Summary Report

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

S. No.	Course Outcomes
CO 1	Toprovideremote-accesstosimulation-basedLabsinvariousdisciplinesofScienceandEngineering.
CO 2	Tomotivatestudentstoperformexperimentsbyarousingtheircuriosity.
CO 3	Tomotivatestudentsforlearningbasicandadvancedideasthroughremoteexperimentation.
CO 4	ToprovideaLearningenvironmentusingtheVirtualLabswherethestudents/teacherscanutilizethevarietyoftoolsforlearningand self-evaluation.

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

Sr. No.	Particulars	Remark
1.	**Year**	4thYear
2.	**Semester**	VIISemester
3.	**No of Student Enrolled**	86
4.	**No. of student absent in Exam**	7
5.	**No. of Student not eligible for the certification**	14
6.	**No of Student certified**	65
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- 2021-22
Add-on Course- Design of Basic Robots (AOC-DEP-ECE-DBR)

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

S. No.	Course Outcomes
CO1	Understand basic components of robotics, classification of robots and their applications
CO2	Analysis of types of robot grippers, their usage and design considerations
CO3	Understand about various types of sensory devices their working and applications
CO4	Apply basic transformations related to the movement of the manipulator.
CO5	Design a robot mechanism to meet kinematics requirements and to write simple programs. programs

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	74
4.	No of Student certified	67
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.

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Department of Electronics and Communication Engineering

Even Semester- 2021-22
Add-on Course- OptiSystem Fundamental and Design Techniques
(AOC-DEP-ECE-OPTI)

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

S. No.	Course Outcomes
CO1	Explain the Multisim user interface
CO2	Apply modular design with sub circuits, hierarchical blocks or multipage designs.
CO3	Create custom components.
CO4	Simulate MCU projects along with SPICE

Sr. No.	Particulars	Remark
1.	Year	2nd Year
2.	Semester	IV Semester
3.	No of Student Enrolled	39
4.	No of Student certified	35
5.	Overall remark by feedback	Overall session was Good. New software require more practical sessions.
6.	Action to be taken for future batch	We are planned to conduct advance version of Optisystem for new projects.More projects will be discussed to enhance the practical knowledge of the software.

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Department of Electronics and Communication Engineering
Even Semester- 2021-22
Add-on Course- Use of AI in Electronics (AOC-DEP-ECE-AI)

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

S. No.	Course Outcomes
CO1	Understand the definition of AI, its applications in Electronics Engineering
CO2	Explain terms like machine learning, deep learning, and neural networks.
CO3	Training of neural network using the training data using various machine learning methods.
CO4	Apply AI techniques to real-world problems to develop intelligent systems.
CO5	Develop algorithms for real-world computational problems such as controlling algorithm for Robots.

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	64
4.	No of Student certified	58
5.	Overall remark by feedback	Workshop was good and very helpful in Engineering domain labs.
6.	Action to be taken for future batch	Plan to modify course content and make it specific. Add some content related to AI in healthcare sector and agriculture so that students can write more projects in DST related to these fields.

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Department of Electronics and Communication Engineering

Even Semester- 2021-22
Add-on Course- Python Programming: The Basics
(AOC-DEP-ECE-PP)

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	2nd Year
2.	Semester	IV Semester
3.	No of Student Enrolled	42
4.	No of Student certified	38
5.	Overall remark by feedback	Overall feedback of the session was good and knowledgeable.
6.	Action to be taken for future batch	Plan to conduct a workshop in batch mode. Time division is revised so that more time will be dedicated to practice sessions.

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Add-on Courses
Summary Report
DEPARTMENT OF INFORMATION TECHNOLOGY

Department of Information Technology

Even Semester- 2021-22

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	2nd Year
2.	Semester	IV Semester
3.	No of Student Enrolled	Total 62
4.	No of Student certified	52
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	• 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.

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

S. No.	Course Outcomes
CO1	Examine Python syntax and semantics and be fluent in the use of Python flow control and functions.
CO2	Demonstrate proficiency in handling Threads, File and Exceptions.
CO3	Create, run and manipulate Python Programs using core data structures like Lists, Dictionaries and use Regular Expressions.
CO4	Interpret the concepts of GUI and WEB Programming as used in Python.
CO5	Implement exemplary applications related to Database Programming with ORM in Python.

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	V Semester
3.	No of Student Enrolled	60
4.	No of Student certified	50
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	● 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.

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Add-on Courses
Summary Report
DEPARTMENT OF MECHANICAL ENGINEERING

Department of Mechanical Engineering

Even Semester- 2021-22

Add-on Course- AOC-DEP-ME-CTA "CATIA" Action Taken 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 constrainingof sketches using sketcher module of CATIA.
CO2	Creation of solids with following toolbars in part design module of CATIA: 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	4th Year
2.	Semester	VIII Semester
3.	No of Student Enrolled	71
4.	No. of student absent in Exam	21
5.	No. of Student not eligible for the certification	23
6.	No of Student certified	43
7.	Gap	Very slight gap came due to Non regular practice of the examples given and non-performing of few students, due to placement drives.
8.	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.
9.	Action to be taken for future batch	More Time is required for the practice session. Easy examples are to be incorporated for the easy understanding.

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Even Semester- 2021-22
Add-on Course- AOC-DEP-ME-SWS "SOLIDWORKS"Action Taken 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 constrainingof 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	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	56
4.	No. of student absent in Exam	14
5.	No. of Student not eligible for the certification	10
6.	No of Student certified	34
7.	Gap	Very slight gap came due to Non regular practice of the examples given and non-performing of few students, due to placement drives.
8.	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.
9.	Action to be taken for future batch	More Time is required for the practice session. Easy examples are to be incorporated for the easy understanding.

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POORNIMA
COLLEGE OF ENGINEERING

Department of Mechanical Engineering
Even Semester- 2021-22
Add-on Course- AOC-DEP-ME-3DP- "3D PRINTING"Summary Report

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

S. No.	Course Outcomes
CO1	Demonstrate appropriate level of understanding on principles of additive manufacturing processes.
CO2	identify appropriate materials for additive manufacturing processes
CO3	Apply suitable CAD tools and CAD interface for additive manufacturing process
CO4	Develop physical prototypes by identifying suitable process with optimum process parameters

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

Sr. No.	Particulars	Remark
1.	Year	4th Year
2.	Semester	VII Semester
3.	No of Student Enrolled	74
4.	No. of student absent in Exam	19
5.	No. of Student not eligible for the certification	13
6.	No of Student certified	55
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. Due Online, less interest More Time is required for the practice session. Offline required for more Understanding.

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Department of Mechanical Engineering

Odd Semester- 2021-22
Add-on Course- Basics of Automobile Engineering
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	2nd Year
2.	Semester	III Semester
3.	No of Student Enrolled	21
4.	No of Student certified	12
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.

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POORNIMA
COLLEGE OF ENGINEERING

Department of Mechanical Engineering
Odd Semester- 2021-22
Add-on Course- Advance Automobile Engineering
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**	2nd Year
2.	**Semester**	IV Semester
3.	**No of Student Enrolled**	21
4.	**No of Student certified**	13
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

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Add-on Courses
Summary Report
DEPARTMENT OF FIRST YEAR

Department of First Year
ODD Semester- 2021-22
Add-on Course-Project Based Learning Summary Report
AOC-DEP-FY-PBL

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	582
4.	No of Student certified	582
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..

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Department of First Year
Even Semester- 2021-22
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 about 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	582
4.	No of Student certified	582
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.

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Department of First Year
Odd Semester- 2021-22
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	143
4.	No of Student certified	140
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.

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Department of First Year
Even Semester- 2021-22
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	145
4.	No of Student certified	143
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.

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Department of First Year
Even Semester- 2021-22
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	150
4.	No of Student certified	148
5.	Overall remark by feedback	As per the feedback, study should be done by Projector & and more emphasis should be given to Image processing. 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.

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Department of First Year

Odd Semester- 2021-22
Add-on Course-Skill development program in web development using JAVASCIPT 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 ReactJSclient-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	144
4.	No of Student certified	143
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.

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