POORNIMA
COLLEGE OF ENGINEERING

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Certificate/ Add-on/ Value added programs – Summary

(Session 2017-18)

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Campus Level Add-on Course (IBM Programs)

Summary Report

POORNIMA
COLLEGE OF ENGINEERING

Session - 2017-18

Add-on Course- Development and Deployment for Cloud using IBM Bluemix

(Course *Code: AOC-CP-IBM-BLU)*

Summary Report

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

S. No.	**Course Outcomes**
CO1	Develop the cloud services like SAAS and store the huge data on the cloud.
CO2	Create any web application and use the SQL DB as a backend.
CO3	Create different types of language translator like Google translator using Watson through Bluemix
CO4	Create a live chat application using Watson through Bluemix.
CO5	Run the application on the web and monitor via the Bluemix user interface, and cloud foundry command line interface
CO6	Manage the cloud resources i.e. increase and decrease the cloud resources in terms of memory, and CPU Utilization
CO7	Control the different home appliance through the mobile.
CO8	Create and run the mobile application via Bluemix.

Sr. No.	**Particulars**	**Remark**
1.	**Year**	**3rd Year & 4th**
2.	**Semester**	**5th, 6th & 7th, 8th**
3.	**No of Student Enrolled**	**364**
4.	**No of Student certified**	**42(IBM Certificate) + 93 (College Level)**
5.	**Overall remark by feedback**	As per the feedback, Sometimes Internet speed was slow. Overall objective of the course has been achieved by the feedback given by the participants
6.	**Action to be taken for future batch**	More Internet bandwidth was allocated for the IBM Bluemix lab.

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Session - 2017-18

Add-on Course- Business Intelligence using IBM Cognos

(Code: AOC-CP-IBM-COG)

Summary Report

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

S. No.	Course Outcomes
CO1	Explore information freely, analyze key facts, collaborate to gain alignment with key stakeholders and make decisions for better business outcomes
CO2	Access reports, analysis, dashboards, scorecards, planning and budgets, real time information, statistics andmanage information for more informed decisions.
CO3	Integrate the results of 'What-If' analysis modeling and predictive analytics into a unified workspace to viewpossible future outcomes alongside current and historical data
CO4	Work with business intelligence capabilities for the office and desktop, on mobile devices, online and offline.
CO5	Work with scalable and extensible solution that can adapt to the changing needs of IT and the business with flexible deployment options that include the cloud, mainframes and data warehousing appliances.

Sr. No.	Particulars	Remark
1.	**Year**	**3rd Year & 4th**
2.	**Semester**	**5th 6th & 7th 8th**
3.	**No of Student Enrolled**	**466**
4.	**No of Student certified**	**31(IBM Certificate) + 49 (College Level)**
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 participants.
6.	**Action to be taken for future batch**	Students were allowed to do practical from 3 to 4 PM with the permission from the respective department. Use of Projector should be done in this lab for better understanding of the commands of options of the software.

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POORNIMA
COLLEGE OF ENGINEERING

Session - 2017-18

Add-on Course- IoT Application Development and Deployment using IBM BlueMix (AOC-CP-IBM-IOT)

Summary Report

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

S. No.	Course Outcomes
CO1	Setup the Raspberry Pi, Node.js and familiar with working in the Linux environment
CO2	Use Node.js environment to make Raspberry Pi blink
CO3	Gain familiarity with the Bluemix IOT services, its UI/ navigation and deploy a Node-REDapplication on Bluemix
CO4	Understand devices and gateway registration process and explore the world of sensors in Node- RED environment with Raspberry Pi.
CO5	Develop and deploy Node-RED applications as prescribed in the coursework on Bluemix
CO6	Function effectively in a team during training/ project work, prepare and present reports.

Sr. No.	Particulars	Remark
1.	**Year**	**3rd Year & 4th**
2.	**Semester**	**5th, 6th & 7th, 8th**
3.	**No of Student Enrolled**	**154**
4.	**No of Student certified**	**40(IBM Certificate) +114 (College Level)**
5.	**Overall remark by feedback**	As per the feedback, Introductory session on Python programming was required by the students of EE, EC, Civil and ME branches in the start of the IOT training. Overall objective of the course has been achieved by the feedback given by the participants
6.	**Action to be taken for future batch**	Separate classes on Python programming was arranged.

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QEEE Courses
Summary Sheets
Session: 2017-18

POORNIMA COLLEGE OF ENGINEERING

Dept. of Electrical Engineering

Odd Semester- 2017-18

Add-on Course- Memory and IO - Advanced Computer Architecture Summary Report

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

S. No.	Course Outcomes
CO1	Discuss the memory hierarchy in the computer architecture.
CO2	Discuss the concept of Cache memory and address translation schemes.
CO3	Discuss the concept of Virtual memory.
CO4	Discuss the page faults in memory and algorithms of page faults .

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	V Semester
3.	No of Student Enrolled	65
4.	No of Student certified	46
5.	Overall remark by feedback	Overall objective of the course has been achieved by the feedback given by the participants. There are 46 students got excelled certificates according there performance.

POORNIMA COLLEGE OF ENGINEERING

Dept. of Information Technology

Even Semester- 2017-18

Add-on Course- Storage Management- Operating Systems Summary Report

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

S. No.	Course Outcomes
CO1	Discuss the basic functions of an Operating System.
CO2	Discuss the Memory Management policies (Contiguous i.e. partitioned / Segmented
CO3	Discuss the paged memory systems for Real / Virtual storage.
CO4	Discuss the Address translation mechanisms and cache management models / policies, File allocation table (FAT), Disk space management File protection mechanisms.

Sr. No.	Particulars	Remark
1.	**Year**	**3rd Year**
2.	**Semester**	**VI Semester**
3.	**No of Student Enrolled**	**53**
4.	**No of Student certified**	**36**
5.	**Overall remark by feedback**	Overall objective of the course has been achieved by the feedback given by the participants. There were 35 students got excelled certificates.

POORNIMA COLLEGE OF ENGINEERING

Department of Information Technology

Odd Semester- 2017-18

Add-on Course- Linear Data Structures and Applications - Data Structures and Algorithms Summary Report

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

S. No.	Course Outcomes
CO1	Discuss the basics of Data Structures and types of data structures.
CO2	Demonstrate the linear data structure array its operations Insert, Update; delete an element in an array.
CO3	Demonstrate the linear data structure stack and queue its operations like insert, delete an element in queue.
CO4	Demonstrate the linear data structure linked list its operations like insert, delete an element in linked list and types of link list.

Sr. No.	Particulars	Remark
1.	Year	2rd Year
2.	Semester	III Semester
3.	No of Student Enrolled	52
4.	No of Student certified	44
5.	Overall remark	Overall objective of the course has been achieved by the feedback given by the participants. One student got excelled certificate.

POORNIMA COLLEGE OF ENGINEERING

Dept. of Information Technology

Even Semester- 2017-18

Add-on Course- Classes and Data Abstraction-Operator Overloading-Inheritance

Summary Report

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

S. No.	Course Outcomes
CO1	Discuss the characterstics of Object Oriented Paradigm.
CO2	Discuss the concept of operator overloading.
CO3	Demonstrate the operator overloading in C++.
CO4	Demonstrate the single, multiple, multilevel inheritance in C++.

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	52
4.	No of Student certified	32
5.	Overall remark by feedback	Overall objective of the course has been achieved by the feedback given by the participants. 20 students got excelled certificates according there performance.

Add-on Courses
Summary Report
DEPARTMENT OF CIVIL ENGINEERING

POORNIMA
COLLEGE OF ENGINEERING

Department of Civil Engineering

Even Semester- 2017-18

Add-on Course- Revit Architecture (AOC-DEP-CIV-REV)

Summary Report

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

S. No.	Course Outcomes
CO1	Apply the concept of Revit Architecture and coordinate of all data inputs (including CAD) andproduce federated project.
CO2	Develop programs using REVIT software, architectural and structural drawing using Revit Architecture Software.
CO3	Demonstrate the use of Revit Architecture for with BIM and CAD specialists working on Different elements of a project.
CO4	Design solutions of real-world civil engineering problems using Revit Architecture.

Sr. No.	Particulars	Remark
1.	**Year**	**2nd Year**
2.	**Semester**	**IV Semester**
3.	**No of Student Enrolled**	**65**
4.	**No of Student certified**	**62**
5.	**Overall remark by feedback**	As per the feedback, computer system should be up to date. Due to old version, students use the limited material.. Overall objective of the course has been achieved by the feedback given by the participants
6.	**Action to be taken for future batch**	Updated software will be used in future. Also the projector study will be introduced in such kind of upcoming events

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Department of Civil Engineering

Even Semester- 2017-18

Add-on Course- Auto CAD (AOC-DEP-CIV-CAD)

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 Automatic CAD 2D & 3D.
CO2	To understand the different plans of building like Orthographic projections, Isometric Projections
CO3	To Apply the typical Automatic CAD commands in software.
CO4	To preparing the different building plans by using of software

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	71
4.	No of Student certified	68
5.	Overall remark by feedback	As per the feedback, computer system should be up to date. Due to old version, students use the limited material.. Overall objective of the course has been achieved by the feedback given by the participants
6.	Action to be taken for future batch	Updated software will be used in future. Also the projector study will be introduced in such kind of upcoming events

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Department of Civil Engineering

Even Semester- 2017-18

Add-on Course- STADD PRO (AOC-DEP-CIV-SPRO)

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 STADD Pro.
CO2	To understand the different plans of building like Orthographic projections, Isometric Projections
CO3	Apply the typical STADD Pro commands in software.
CO4	To Analyze the different Structural Component by using of STADD Pro software

Sr. No.	Particulars	Remark
1.	**Year**	**4th Year**
2.	**Semester**	**VIII Semester**
3.	**No of Student Enrolled**	**71**
4.	**No of Student certified**	**67**
5.	**Overall remark by feedback**	As per the feedback, computer system should be up to date. Due to old version, students use the limited material. Overall objective of the course has been achieved by the feedback given by the participants
6.	**Action to be taken for future batch**	Updated software will be used in future. Also the projector study will be introduced in such kind of upcoming events.

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Add-on Courses
Summary Report
DEPARTMENT OF COMPUTER ENGINEERING

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Department of Computer Engineering

Even Semester- 2017-18

Add-on Course- Advance Java

(AOC-DEP-CSE-ADJ)

Summary Report

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

S. No.	Course Outcomes
CO1	Apply the knowledge of J2EE architecture, MVC Architecture.
CO2	Summarize Multi -tier Application, Various Network Protocol
CO3	Distinguish Web Server, Web Container and Application Server, Serialization, Internationalization, naming services and JNDI.
CO4	Gain the knowledge of Server Side programing by implementing Servlet and JSP. Understand and write the deployment descriptor and enterprise application deployment.
CO5	Design and develop various application by Integrating any of Servlets, JSPs, Swing and Applet using Database, RMI, Spring, Hibernate by analyzing requirements and evaluating existing system

Sr. No.	Particulars	Remark
1.	Year	2nd Year
2.	Semester	III– IV Semester
3.	No of Student Enrolled	61
4.	No of Student certified	60
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	The Servlets practice work take more emphasis.

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Department of Computer Engineering

Even Semester- 2017-18

Add-on Course- Python Programming (AOC-DEP-CSE-PPG)

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	2nd Year
2.	Semester	III-IV Semester
3.	No of Student Enrolled	60
4.	No of Student certified	58
5.	Overall remark by feedback	Overall feed back was good. Student learn about python concepts in depth.
6.	Action to be taken for future batch	the OOP concepts of python programming need more practice.

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Department of Computer Engineering

Even Semester- 2017-18

Add-on Course- Mobile Application Development (AOC-DEP-CSE-MAD)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 apply various concepts of mobile programming that make it distinctive from programming for other platforms
CO2	Students will be able to analyze GUI applications, use built-in widgets and components
CO3	Students will be able to design the mobile applications for the android operating system that use basic and advanced phone features
CO4	Create a sophisticated mobile interface using the rapid prototyping techniques

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	V Semester
3.	No of Student Enrolled	60
4.	No of Student certified	56
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	Overall feed back is good.

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Department of Computer Engineering

Even Semester- 2017-18

Add-on Course- CCNA (AOC-DEP-CSE-CNA)

Summary Report

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

S. No.	Course Outcomes
CO1	Identification of network fundamentals
CO2	Identification and configuration of LAN switching technologies
CO3	Description, implementation, and verification of IP routing technologies
CO4	Identification and configuration of WAN technologies
CO5	Identification and configuration of infrastructure services.

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	V-VISemester
3.	No of Student Enrolled	66
4.	No of Student certified	64
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 participants
6.	Action to be taken for future batch	The web design part using Python required

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Department of Computer Engineering

Even Semester- 2017-18

Add-on Course- Data Science with Python(AOC-DEP-CSE-DSP)

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 panda's 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	4th Year
2.	Semester	VII-VIII Semester
3.	No of Student Enrolled	60
4.	No of Student certified	59
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	Python GUI practical exercise need more hands-on.

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Department of Computer Engineering

Even Semester- 2017-18

Add-on Course- PROGRAMMING IN HADOOP (AOC-DEP-CSE-HDP)

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 Semester
3.	No of Student Enrolled	66
4.	No of Student certified	62
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	The basic concept of datamining need to be cover before starting this course.

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Add-on Courses
Summary Report
DEPARTMENT OF ELECTRICAL ENGINEERING

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POORNIMA
COLLEGE OF ENGINEERING

Department of Electrical Engineering

Even Semester- 2017-18

Add-on Course- (AOC-DEP-EE-BES)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 Perform Electrical Wiring at Various Sites.
CO2	Students will be able to Perform Maintenance Work at Various Sites.
CO3	Students will be able to Understand Earth Resistance testing and Importance.
CO4	Students will be able to Identify the cable sizes and perform cable jointing.

	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	
CO4									3						3

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	V Semester
3.	No of Student Enrolled	80
4.	No. of student absent in Exam	9
5.	No. of Student not eligible for the certification	50
6.	No of Student certified	21
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
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Department of Electrical Engineering

Even Semester- 2017-18

Add-on Course- (AOC-DEP-EE-SGS) 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 smart grids components and architecture.
CO2	Students will be able to Describe different measuring methods and sensors used in smart grid.
CO3	Students will be able to Interpret the role of batteries and energy storages.
CO4	Students will be able to apply responsive design various renewable energy Technologies.

	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
CO4								3							

Sr. No.	Particulars	Remark
1.	**Year**	**4thYear**
2.	**Semester**	**VIII Semester**
3.	**No of Student Enrolled**	**100**
4.	**No. of student absent in Exam**	**10**
5.	**No. of Student not eligible for the certification**	**50**
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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POORNIMA
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Department of Electrical Engineering

Even Semester- 2017-18

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 Understand the principle of direct solar energy conversion to power using PV.
CO2	Students will be able to Contrast the performance measures of PV.
CO3	Students will be able to Infer on various solar cells & design aspects of solar PV.
CO4	Students will be able to Develop ideas for working on solar PV systems & associated safety practices

	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**	**3rd Year**
2.	**Semester**	**V Semester**
3.	**No of Student Enrolled**	**110**
4.	**No. of student absent in Exam**	**5**
5.	**No. of Student not eligible for the certification**	**60**
6.	**No of Student certified**	**45**
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
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Department of Electrical Engineering

Even Semester- 2017-18

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 learn about govt. policies for Photovoltaic Systems in India.
CO2	Students will be able to learn about the element used (Power circuits , battery, charger & motor etc.) in Photovoltaic Systems
CO3	Students will be able to understand the Basic Photovoltaic Systems
CO4	Students will be able to learn future trends in Photovoltaic Systems.

	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**	**2nd Year**
2.	**Semester**	**III Semester**
3.	**No of Student Enrolled**	**70**
4.	**No. of student absent in Exam**	**7**
5.	**No. of Student not eligible for the certification**	**40**
6.	**No of Student certified**	**23**
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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Even Semester- 2017-18

Add-on Course- (AOC-DEP-EE-SGS) 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 smart grids components and architecture.
CO2	Students will be able to Describe different measuring methods and sensors used in smart grid.
CO3	Students will be able to Interpret the role of batteries and energy storages.
CO4	Students will be able to apply responsive design various renewable energy Technologies.

	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
CO4								3							

Sr. No.	Particulars	Remark
1.	**Year**	**4thYear**
2.	**Semester**	**VIII Semester**
3.	**No of Student Enrolled**	**100**
4.	**No. of student absent in Exam**	**10**
5.	**No. of Student not eligible for the certification**	**50**
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

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COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Even Semester- 2017-18

Add-on Course- Etching and Designing (AOC-DEP-ECE-ETC)

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

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

Sr. No.	Particulars	Remark
1.	Year	3rd Year
2.	Semester	VI Semester
3.	No of Student Enrolled	42
4.	No of Student certified	38
5.	Overall remark by feedback	1) Very Easy and important software in designing PCB for project work
6.	Action to be taken for future batch	1) We have a very established lab in our department for PCB designing so that our students can design different types of PCB and explore more in PCB designing.

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Department of Electronics and Communication Engineering

Even Semester- 2017-18

Add-on Course- NI Multisim Basics: Schematic Capture and Simulation (AOC-DEP-ECE-SIM)

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
CO5	Transfer your design to PCB layout software

Sr. No.	Particulars	Remark
1.	**Year**	**2nd Year**
2.	**Semester**	**IV Semester**
3.	**No of Student Enrolled**	**44**
4.	**No of Student certified**	**38**
5.	**Overall remark by feedback**	**1) Overall software is very good and useful in engineering domain.**
6.	**Action to be taken for future batch**	**1) More projects will be discussed to enhance the practical knowledge of the software.**

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COLLEGE OF ENGINEERING

Department of Electronics and Communication Engineering

Session-2017-18

Add-on Course- Introduction to Technical Writing Skills

(AOC-DEP-ECE-TWS)

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	3rd Year and 4th Year
2.	Semester	VI Semester and VIII Semester
3.	No of Student Enrolled	46
4.	No of Student certified	39
5.	Overall remark by feedback	1) Require more Hands on Practice session. 2) Overall activity is good for enhancing writing skills.
6.	Action to be taken for future batch	More time is dedicated for Hands on Training session as compared to theory session.

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Department of Electronics and Communication Engineering

Even Semester- 2017-18

Add-on Course- Basics of Programming Languages

(AOC-DEP-ECE-BPL)

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	3rd Year and 4th Year
2.	Semester	VI Semester and VIII Semester
3.	No of Student Enrolled	43
4.	No of Student certified	37
5.	Overall remark by feedback	Feedback of the workshop was good and students are more interested in this type of workshop in future. Starting classes are time taken due to downloading of software.
6.	Action to be taken for future batch	In future we try to share all the downloading data before the starting of the workshop session so that students are prepared for the classes on time.Try to improve the network connectivity during the workshop.

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Add-on Courses
Summary Report
DEPARTMENT OF INFORMATION TECHNOLOGY

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POORNIMA
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Department of Information Technology

Odd Semester- 2017-18

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 49
4.	No of Student certified	45
5.	Overall remark by feedback	Students suggested that more focus is required on practical demonstration part instead of theory. 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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Department of Information Technology

Odd Semester- 2017-18

Add-on Course- Automation Testing using Selenium (Course Id:AOC-DEP-IT-SEL)

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

S. No.	Course Outcomes
CO1	Understand the need and usage of software tools required for manual and automated testing.
CO2	Identify various software testing problems, and solve these problems by designing and selecting software test models, criteria, strategies, and methods.
CO3	Design and conduct a software test process for a software testing project.
CO4	Analyzethe performance of different websites using Selenium
CO5	Generate Test sequences and compare using Selenium tool for different websites.

Sr. No.	Particulars	Remark
1.	Year	4th Year
2.	Semester	VII Semester
3.	No of Student Enrolled	Total 49
4.	No of Student certified	49
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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Add-on Courses
Summary Report
DEPARTMENT OF MECHANICAL ENGINEERING

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Department of Mechanical Engineering

Even Semester- 2017-18

Add-on Course- ANSYS Summary Report (AOC-DEP-ME-SYS)

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

S. No.	Course Outcomes
CO1	Discuss the basic features of an analysis package.
CO2	Demonstrate the deflection of beams subjected to point, uniformly distributed and varying loads.
CO3	Use the modern tools to formulate and solve problems of bars, truss, beams, and plate to find stress with different loading conditions.
CO4	Applying basic principle to solve and demonstrate 1D and 2D heat transfer with conduction and convection boundary conditions by Using ANSYS.

Sr. No.	Particulars	Remark
1.	**Year**	**3rd Year**
2.	**Semester**	**VI Semester**
3.	**No of Student Enrolled**	**189**
4.	**No of Student certified**	**151**
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 participants
6.	**Action to be taken for future batch**	Use of Projector should be done in this ANSYS lab for better understanding of the commands of options of the software.

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Add-on Courses
Summary Report
DEPARTMENT OF FIRST YEAR

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Department of First Year

Odd Semester- 2017-18

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**	**560**
4.	**No of Student certified**	**560**
5.	**Overall remark by feedback**	As per the feedback, more design related problems on real world 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 real world problems for better understanding, learning and improving the skill sets of the student.

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Department of First Year

Even Semester- 2017-18

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	560
4.	No of Student certified	560
5.	Overall remark by feedback	As per the feedback, study should be done by the use of PowerPoint presentation.. 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 PowerPoint presentations should be done in this way for better learning and improving the logical skills of the students.

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Department of First Year

Even Semester- 2017-18

Add-on Course-Advanced C-Programming

(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**	**80**
4.	**No of Student certified**	**76**
5.	**Overall remark by feedback**	As per the feedback, the study should be done by utilizing a projector & more emphasis should be given on solving data structure problems. 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 C-Programming lab for better understanding of the commands of options of the software.

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