# *Certificate/ Add-on/ Value added programs – Summary Sheets*
# *(Session 2019-20)*

# Campus Level Add-on Course (IBM Programs)

# Summary Report

# POORNIMA
## COLLEGE OF ENGINEERING

**Session - 2019-20**
**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 |
| 2. | Semester | VI Semester |
| 3. | No of Student Enrolled | 314 |
| 4. | No of Student certified | 42 (IBM) + 125 (College Level) |
| 5. | Overall remark by feedback | As per the feedback students learned range of services of IBM Bluemix cloud computing platform that enable them to rapidly build and extend web and mobile applications. an environment for nurturing their technical skills to become industry ready professionals. Overall objective of the course has been achieved. |
| 6. | Action to be taken for future batch | Overall good Feedback by Students. |

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**Session - 2019-20**
**Add-on Course- Business Intelligence using IBM Cognos**
**BI** *(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 |
| 2. | Semester | V & VI Semester |
| 3. | No of Student Enrolled | 376 |
| 4. | No of Student certified | 31 (IBM) + 94 (College level) |
| 5. | Overall remark by feedback | As per the feedback, students learned Integrate the results of 'What-If' analysis modeling and predictive analytics into a unified workspace to view possible future outcomes alongside current and historical data. More practical hours were required by the students to work on IBM Cognos tool.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 lab for better understanding of the commands of options of the software. |

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**Session – 2019-20**
**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 |
| 2. | Semester | V & VI Semester |
| 3. | No of Student Enrolled | 456 |
| 4. | No of Student certified | 38 (IBM) + 114 (college level) |
| 5. | Overall remark by feedback | As per the feedback, students learned create a basic IOT solution using open source low cost devise such as Raspberry Pi, and a trial version of the cloud based IBM Watson IOT platform. Require extra classes of PYTHON. 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  lab for better understanding of the commands of options of the software. Separate classes on Python programming was arranged. |

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# Add-on Courses
# Summary Report
## DEPARTMENT OF CIVIL ENGINEERING

# Department of Civil Engineering
## Even Semester- 2019-20
### Add-on Course- Revit Architecture
### 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 | 2$^{nd}$ Year |
| 2. | Semester | III Semester |
| 3. | No of Student Enrolled | 43 |
| 4. | No of Student certified | 35 |
| 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- 2019-20
## Add-on Course- Auto 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 | 3$^{rd}$ Year |
| 2. | Semester | VI Semester |
| 3. | No of Student Enrolled | 66 |
| 4. | No of Student certified | 63 |
| 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- 2019-20
## Add-on Course- STADD PRO
## 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 | VII 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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# Add-on Courses
# Summary Report
## DEPARTMENT OF COMPUTER ENGINEERING

# POORNIMA
## COLLEGE OF ENGINEERING

## Department of Computer Engineering
### Even Semester- 2018-19
### Add-on Course- Web Development(AOC-DEP-CSE-WebD)
### Summary Report

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

| S. No. | Course Outcomes |
|---|---|
| CO1 | Apply the concepts of World Wide Web, and the requirements of effective web design. |
| CO2 | Develop web pages using the HTML and CSS features with different layouts as per need of applications. |
| CO3 | Use the JavaScript to develop the dynamic web pages. |
| CO4 | Construct simple web pages in PHP and to represent data in XML format. |
| CO5 | Use server-side scripting with PHP to generate the web pages dynamically using the database connectivity. |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 2nd Year |
| 2. | Semester | III Semester |
| 3. | No of Student Enrolled | 72 |
| 4. | No of Student certified | 69 |
| 5. | Overall remark by feedback | Overall Feedback received by students was good. Some students want to mor project exercise for implementation. |
| 6. | Action to be taken for future batch | The real life based project will be included. |

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

| S. No. | Course Outcomes |
|---|---|
| CO1 | Apply the Microsoft .NET Framework and ASP.NET page structure |
| CO2 | Design web application with variety of controls |
| CO3 | Access the data using inbuilt data access tools |
| CO4 | Use Microsoft, ADO .NET to access data in web application |
| CO5 | Configure and deploy web application |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 2nd Year |
| 2. | Semester | III Semester |
| 3. | No of Student Enrolled | 61 |
| 4. | No of Student certified | 53 |
| 5. | Overall remark by feedback | Overall feed back received from students was good. |
| 6. | Action to be taken for future batch | The hands on practice need include more project work. |

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## Even Semester- 2019-20
## Add-on Course- Programming in Java Script (AOC-DEP-CSE-PJS)
## 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 JavaScript fundamentals: variables, if/else, operators, Boolean logic, functions, arrays, objects, loops, strings and able to apply on any use-cases. |
| CO2 | Students will be able to learn about the DOM (document object model) and Window Object, able to manipulate the DOM at run time. |
| CO3 | Students will be able to learn about How JavaScript works behind the scenes i.e. engines, the call stack, hoisting, scoping, the 'this' keyword, reference values. |
| CO4 | Students will be able apply functions in Java script and able to implement the function in real world case studies. |
| CO5 | Students will be able to learn the object-oriented features of Java script like classes, inheritance and polymorphism. |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 2nd Year |
| 2. | Semester | III Semester |
| 3. | No of Student Enrolled | 61 |
| 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 | The project assignment will be added to this course for home practice work. |

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

| S. No. | Course Outcomes |
|---|---|
| CO1 | Application of specific block chain architecture for a given problem |
| CO2 | Analyze the role of block chain applications in different domains including cyber security |
| CO3 | Evaluate the usage of Block chain implementation/features for the given problem |
| CO4 | Exemplify the usage of bitcoins and its impact on the economy |
| CO5 | Demonstrate the basics of Block chain concepts using modern tools/technologies |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 3rd Year |
| 2. | Semester | V Semester |
| 3. | No of Student Enrolled | 58 |
| 4. | No of Student certified | 56 |
| 5. | Overall remark by feedback | Due to new technology filed of blockchain some students facing problem with implementation. |
| 6. | Action to be taken for future batch | The fundamental concepts of blockchain will be demonstrate in depth. |

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**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 Semester |
| 3. | No of Student Enrolled | 62 |
| 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 | Overall feedback is good |

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# Department of Computer Engineering
## Even Semester- 2019-20
## Add-on Course- Python Web Development with Django(AOC-DEP-CSE-WDDJ)
## Summary Report

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

| S. No. | Course Outcomes |
|---|---|
| CO1 | Apply the programming fundamentals concept of the Python programming language |
| CO2 | Develop programs of dynamic, database-backed web applications using Django |
| CO3 | Demonstrate the reuse built-in Django apps for common web functionalities |
| CO4 | ORM layer of Django for interaction with the database. |
| CO5 | Design solutions of real-world computational problems using Python programs |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 3rd Year |
| 2. | Semester | V Semester |
| 3. | No of Student Enrolled | 60 |
| 4. | No of Student certified | 53 |
| 5. | Overall remark by feedback | All students loved this course and implement many projects in python. |
| 6. | Action to be taken for future batch | The python framework Flask for web development will also explained. |

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# Department of Computer Engineering
## Even Semester- 2019-20
## Add-on Course- PROGRAMMING IN HADOOP (AOC-DEP-CSE-BCT)
## 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 | 60 |
| 4. | No of Student certified | 57 |
| 5. | Overall remark by feedback | Overall feed back is good. Some students were facing the problem with MapReduce programming. |
| 6. | Action to be taken for future batch | The development part of MapReduce program will be explained in more depth. |

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# Department of Computer Engineering
## Even Semester- 2019-20
## 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 cntrol 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 | 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 | Web based project will be included for further batches |

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# Add-on Courses
# Summary Report
## DEPARTMENT OF ELECTRICAL ENGINEERING

# Department of Electrical Engineering

## Even Semester- 2019-20

## Add-on Course- (AOC-DEP-EE-AAD) 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 Wi-Fi, 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 interfaces |
| 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 | |
| CO2 | | | | | 3 | | | | | | | | | | 3 |
| CO3 | | | | | | | | | 3 | | | | | | |
| CO4 | | | | | | | | | 3 | | | | | 3 | |

| Sr. No. | Particulars | Remark |
|---------|-------------|--------|
| 1. | Year | 2<sup>nd</sup>Year |
| 2. | Semester | III Semester |
| 3. | No of Student Enrolled | 70 |
| 4. | No. of student absent in Exam | 2 |
| 5. | No. of Student not eligible for the certification | 8 |
| 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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## Department of Electrical Engineering
### Even Semester- 2019-20
### 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 | 3 |
| CO2 | | | | | 3 | | | | | | | | | | 3 |
| CO3 | | | | | 3 | | | | | | | | | | |
| CO4 | | | | | 3 | | | | 3 | | | | | 3 | 3 |

| Sr. No. | Particulars | Remark |
|---------|-------------|--------|
| 1. | Year | 3$^{rd}$Year |
| 2. | Semester | VSemester |
| 3. | No of Student Enrolled | 100 |
| 4. | No. of student absent in Exam | 8 |
| 5. | No. of Student not eligible for the certification | 22 |
| 6. | No of Student certified | 70 |
| 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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**COURSE OUTCOMES:** After successful completion of this course Students will be able to

| S. No. | Course Outcomes |
|---|---|
| CO1 | Students will be able to understand features and importance of MATLAB in mathematical Programming environment. |
| CO2 | Students will be able to solve problems related to Electrical circuit applications in simulation tool. |
| CO3 | Students will be able to articulate the importance of MATLAB in research by simulation work. |
| CO4 | Students will be able to apply responsive design to enable page to be viewed by various devices. |

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

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 4<sup>th</sup>Year |
| 2. | Semester | VIIISemester |
| 3. | No of Student Enrolled | 120 |
| 4. | No. of student absent in Exam | 11 |
| 5. | No. of Student not eligible for the certification | 29 |
| 6. | No of Student certified | 80 |
| 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- 2019-20

## Add-on Course- (AOC-DEP-EE-PHVS) 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 | | | | 3 | | | | |
| CO2 | | | | | | | | | | | 3 | | | | |
| CO3 | | | | | | | 3 | | | | | | | | |
| CO4 | | | | | | | 3 | | | | | | | | |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 2nd Year |
| 2. | Semester | IV Semester |
| 3. | No of Student Enrolled | 80 |
| 4. | No. of student absent in Exam | 7 |
| 5. | No. of Student not eligible for the certification | 23 |
| 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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## Department of Electrical Engineering
### Even Semester- 2019-20
### Add-on Course- (AOC-DEP-EE-PHVS)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 | | 3 | | | | | | 3 | | | |
| CO2 | | | | 3 | | | | | 3 | | | 3 | | | |
| CO3 | | | | | 3 | 3 | | | 3 | | | 3 | | | |
| CO4 | | | | 3 | | 3 | | | | | | | | | |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 4<sup>th</sup>Year |
| 2. | Semester | VIISemester |
| 3. | No of Student Enrolled | 60 |
| 4. | No. of student absent in Exam | 14 |
| 5. | No. of Student not eligible for the certification | 16 |
| 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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**COURSE OUTCOMES:** After successful completion of this course Students will be able to

| S. No. | Course Outcomes |
|--------|-----------------|
| CO1 | Students will be able to Understanding the AutoCAD workspace and user interface. |
| CO2 | Students will be able to make design using basic drawing, editing, Adding text, hatching, dimensions and viewing tools. |
| CO3 | Students will be able to Preparing a knowledge of drafting procedures and terminology. |
| CO4 | Students will be able to Understand and demonstrate dimensioning concepts and techniques devices. |

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

| Sr. No. | Particulars | Remark |
|---------|-------------|--------|
| 1. | Year | 3$^{rd}$Year |
| 2. | Semester | VISemester |
| 3. | No of Student Enrolled | 50 |
| 4. | No. of student absent in Exam | 3 |
| 5. | No. of Student not eligible for the certification | 7 |
| 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 COMUNICATION ENGINEERING

# POORNIMA
## COLLEGE OF ENGINEERING

# Department of Electronics and Communication Engineering
### Even Semester- 2019-20
### Add-on Course- Foundation to Robotics

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

| S. No. | Course Outcomes |
|--------|-----------------|
| CO1 | Understand the industry requirement towards robotics |
| CO2 | Apply principles and techniques in varied application domains related to IT and Engineering |
| CO3 | Formulate solutions to solve problems related to robotics and automation |
| CO4 | Evaluate the current practice and predict future trends |
| CO5 | Demonstrate conversance in key soft skills, such as communication, analysis and inquiry, problem solving, independent and group working, professionalism and social responsibility. |

| Sr. No. | Particulars | Remark |
|---------|-------------|--------|
| 1. | Year | 3rd Year and 4th Year |
| 2. | Semester | VI Semester and VIII Semester |
| 3. | No of Student Enrolled | 76 |
| 4. | No of Student certified | 67 |
| 5. | Overall remark by feedback | Overall feedback is interesting and good. Students asked for more workshop on robotics. |
| 6. | Action to be taken for future batch | More workshop is planned in future if new technologies. Plan to conduct hands on training session for Robo making. |

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# POORNIMA
## COLLEGE OF ENGINEERING

# Department of Electronics and Communication Engineering
## Even Semester- 2019-20
## Add-on Course- Hardware Integration with LabVIEW

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

| S. No. | Course Outcomes |
|---|---|
| CO1 | Apply to communicate between parallel sections of code without forcing an execution order. |
| CO2 | Develop programs that respond to user interface events using a variety of event-driven design patterns. |
| CO3 | Demonstrate how to use property nodes and control references to programmatically control front panel objects. |
| CO4 | Use the benefits of the object-oriented approach in Lab-VIEW programming |
| CO5 | Design solutions teaches how to manage configuration settings for your application by using a configuration file. |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 3rd Year |
| 2. | Semester | VI Semester |
| 3. | No of Student Enrolled | 31 |
| 4. | No of Student certified | 26 |
| 5. | Overall remark by feedback | The workshop of Lab view was excellent. Students learnt about new ways of simulation with the layout circuit. |
| 6. | Action to be taken for future batch | We are planned to conduct advance version of lab view by introducing MATLAB programming. |

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# Department of Electronics and Communication Engineering

**Even Semester- 2019-20**

**Add-on Course- The Tool for Zotero Integration**

**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 | 4th Year |
| 2. | Semester | VIII Semester |
| 3. | No of Student Enrolled | 44 |
| 4. | No of Student certified | 39 |
| 5. | Overall remark by feedback | Require more Hands on Practice sessions. Overall activity is good for enhancing writing skills. |
| 6. | Action to be taken for future batch | More time is dedicated to the Hands on Training session as compared to the theory session. |

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# Department of Electronics and Communication Engineering
## Even Semester- 2019-20
## Add-on Course- Keil Embedded Development Tool

**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 | 34 |
| 4. | No of Student certified | 31 |
| 5. | Overall remark by feedback | Overall workshop was good. Students are interested in taking this workshop. However, component selection process require more understanding and more workshop sessions. |
| 6. | Action to be taken for future batch | Plan to conduct workshop in batch mode so that more number of projects can be done by students. |

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# Department of Electronics and Communication Engineering

**Even Semester- 2019-20**

**Add-on Course- MATLAB Programming: Basics**

**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 | 2nd Year |
| 2. | Semester | IV Semester |
| 3. | No of Student Enrolled | 46 |
| 4. | No of Student certified | 41 |
| 5. | Overall remark by feedback | Workshop was good and very helpful in Engineering domain labs. Little problem in network connectivity during online sessions. |
| 6. | Action to be taken for future batch | In future sessions, advanced programming will be introduced in the workshop.We try to improve the network connectivity during the online sessions. |

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# Department of Electronics and Communication Engineering
## Even Semester- 2019-20
## Add-on Course- PCB Designing

**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 | 2$^{nd}$ Year |
| 2. | Semester | VI Semester |
| 3. | No of Student Enrolled | 48 |
| 4. | No of Student certified | 42 |
| 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.Try to improve the audio and video quality in online sessions |

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# Add-on Courses
# Summary Report
## DEPARTMENT OF INFORMATION TECHNOLOGY

# Department of Mechanical Engineering

## Odd Semester- 2019-20

## Add-on Course- Web Development using AngularJS (Course Id: AOC-DEP-IT-WEBD)

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

| S. No. | Course Outcomes |
|---|---|
| CO1 | Understand client-side web UI frameworks |
| CO2 | Understand and use various directives offered by Angular |
| CO3 | Use dependency injection for better maintainability and Exploit two-way binding offered by Angular |
| CO4 | Build RIA using Angular |
| CO5 | Create dynamic web applications and deploy to different environments |

| Sr. No. | Particulars | Remark |
|---|---|---|
| 1. | Year | 2nd &3rd Year |
| 2. | Semester | III &V Semester |
| 3. | No of Student Enrolled | II Yr 29, III Yr 21, Total 50 |
| 4. | No of Student certified | 43 |
| 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

**Even Semester- 2019-20**

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

**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 | Analyze the performance of different websites using Selenium |
| CO5 | GenerateTestsequencesandcompareusingSeleniumtoolfordifferentwebsites. |

| Sr. No. | Particulars | Remark |
|---------|-------------|--------|
| 1. | Year | 4th Year |
| 2. | Semester | VIII Semester |
| 3. | No of Student Enrolled | 49 |
| 4. | No of Student certified | 49 |
| 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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# Add-on Courses
# Summary Report
## DEPARTMENT OF CIVIL ENGINEERING

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# Department of Mechanical Engineering
## Even Semester- 2019-20
## Add-on Course- CATIA Summary Report (AOC-DEP-ME-CAT)

**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 | 3rd Year |
| 2. | Semester | V Semester |
| 3. | No of Student Enrolled | 100 |
| 4. | No. of student absent in Exam | 24 |
| 5. | No. of Student not eligible for the certification | 16 |
| 6. | No of Student certified | 72 |
| 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. Easy examples are to be incorporated for the easy understanding. |

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# Add-on Courses Summary Report
## DEPARTMENT OF FIRST YEAR

# Department of First Year
## ODD Semester- 2019-20
## 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 | 520 |
| 4. | No of Student certified | 520 |
| 5. | Overall remark by feedback | As per the feedback, more analysis related to hardware programming 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 hardware programming problems for better understanding, learning and improving the skill sets of the student. |

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# Department of First Year

**Even Semester- 2019-20**
**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 | 520 |
| 4. | No of Student certified | 520 |
| 5. | Overall remark by feedback | As per the feedback, more emphasis should be given on soft skills of students. 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 grammar for improving skill set of the student. |

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# Department of First Year

## Odd Semester- 2019-20
## 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 | 170 |
| 4. | No of Student certified | 169 |
| 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- 2019-20
## 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 | 75 |
| 4. | No of Student certified | 74 |
| 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- 2019-20
## 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 | 135 |
| 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. |

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# Department of First Year
## Odd Semester- 2019-20
## 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 | 135 |
| 4. | No of Student certified | 133 |
| 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 ReactJS. 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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