

1.2.2 Number of Add on /Certificate programs offered during the last five years (10)

1.2.3 Average percentage of students enrolled in Add-on/Certificate programs as against the total number of students during the last five years (10)

**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: MECHANICAL DEPARTMENT (2015-16)**

Name of Add on /Certificate programs offered	Add on Training/ Certificate	No. of students	Duration of course	Number of students enrolled	Number	Course Outcome
Automation Technologies- Basic Level	External	1	2 Weeks (40 Hrs)	15	15	Manufacturing excellence through relevant automation • Controller programming and use of actuators in automation and selection criteria •Industrial control system, PLC Programming, use of function blocks, Multi tasking • Human-mechanic-interface design
Automation Technologies- Intermediate Level	External	1	4 Weeks (80 Hrs)	14	14	Described the working of various blocks of basic industrial automation system • Connects the peripherals with the PLC • Use various PLC functions and develop small application programs using sensors and actuators. • Summarize Electro Hydraulic and Electro Pneumatic systems • Use various industrial sensors for the Industrial Automation
Certification in Basic Industrial Robotics Training (CBIRT)	External	1	2 Weeks (30 Hrs)	16	16	Covered the most common applications of industrial robots. • The importance of maintenance, as well as the various approaches and methods used by maintenance workers today to keep industrial robots performing optimally.
Advanced Diploma in Industrial Robotics Training (ADIRT)	External	1	40 Days (240Hrs)	16	16	Covered different methods of protecting workers from industrial robot accidents. • Covered the functions and characteristics of the different components of an industrial robot. • Covered the function of structured programming, their methodology & conceptualization. • Covered the fundamental concepts of Variables, subprograms, function, Data list & Data manipulation in the depth of robotic programming • Described the various types of end effectors and their uses. It also explains the issue of compliance and describes how to maintain end effectors.
KUKA- Basic Robot Programming(AKGEC)	External	1	2 Weeks (40 Hrs)	10	10	Covered the classifications, characteristics, and functions of industrial robots as well as basic safety precautions for working with robots. • Covered the fundamental concepts required for programming of industrial robots • Described the various types of end effectors and their uses. It also explains the issue of compliance and describes how to maintain end effectors. • Described the most common robot axes. Explained how to understand these axes, and how they are used to control robot movement. • Introduced to the troubleshooting process and gone through to identify problems and their causes.

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1.2.2 Number of Add on /Certificate programs offered during the last five years (10)

1.2.3 Average percentage of students enrolled in Add-on/Certificate programs as against the total number of students during the last five years (10)

**ART ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: MECHANICAL DEPARTMENT (201**

Name of Add on /Certificate programs offered	Add on / Training	No. of times offered	Duration of course	Number of students	Number of students	Course Outcome
Basic Automation Training(PLC & SCADA)	External	1	30 days	16	16	Programmable Logic Controller (PLC) • Supervisory Control & Data Acquisition • Variable Frequency Drive (VFD) • Human Machine Interface (HMI) • Industrial Control Panel (Designing & Maintenance)
Robotics & Industrial Automation( KUKA-CIT)	External	1	2 Weeks	22	22	Covered the classifications, characteristics, and functions of industrial robots as well as basic safety precautions for working with robots. • Covered the fundamental concepts required for programming of industrial robots • Described the various types of end effectors and their uses. It also explains the issue of compliance and describes how to maintain end effectors. • Described the most common robot axes. Explained how to understand these axes, and how they are used to control robot movement. •
Control & Automation (AGIIT)	External	1	30 days	22	22	Covered the most common applications of industrial robots. • The importance of maintenance, as well as the various approaches and methods used by maintenance workers today to keep industrial robots performing optimally.


  
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<b>Advanced Diploma in Industrial Robotics (AGIIT)</b>	External	1	30 days	22	22	Covered different methods of protecting workers from industrial robot accidents. • Covered the functions and characteristics of the different components of an industrial robot. • Covered the function of structured programming, their methodology & conceptualization. • Covered the fundamental concepts of Variables, subprograms, function, Data list & Data manipulation in the
<b>Vehicle Design &amp; Development (Specialized)</b>	External	1	15 Days	25	25	Rollcage/Chassis Design-CAD & PVC model Generation • Suspension & Steering design & Analysis • Braking and subassembly, Engine and transmission, electrical system,
<b>Industrial Training Program(AKGEC)</b>	External	1	6 Weeks	3	3	Manufacturing excellence through relevant automation • Controller programming and use of actuators in automation and selection criteria •Industrial control system, PLC Programming, use of function blocks, Multi tasking • Human-mechanic-interface design








<p style="text-align: center;"><b>Thermax Limited</b></p>	<p style="text-align: center;">External</p>	<p style="text-align: center;">2</p>	<p style="text-align: center;">30 Days</p>	<p style="text-align: center;">3</p>	<p style="text-align: center;">3</p>	<p>Understanding of Basic power plant engineering, Working of Rankine cycle in actual power plant . • Types of boiler, accessories and mounting • Coal &amp; Ash handling power plant • Water treatment plant, water to steam path, Auxiliary cooling Water pump system • Mechanical interlock and protection of power plant • Boiler startup (permissive and protection) • Turbine startup (permissive and protection) • Process &amp; Instrumentation diagram, Heat mass balance diagram, Turbine Lube Oil System, Key performance &amp; index • Safety and Environment</p>
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 Dr. Praveen Kumar  
 Head of Institution / Head of Department



**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: MECHANICAL DEPARTMENT (2019-20)**

Name of Add on /Certificate programs offered	Add on Training/ Certificate	No. of times offered	Duration of course	Number of student	Number of Students completing the course in the year	Course Outcome
Basic Automation Training (PLC & SCADA)	External	2	30 days	10+5	15	Programmable Logic Controller (PLC) • Supervisory Control & Data Acquisition • Variable Frequency Drive (VFD) • Human Machine Interface (HMI) • Industrial Control Panel (Designing & Maintenance)

  
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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRICAL DEPARTMENT (2015-16)**

Name of Add on /Certificate programs offered	External/ In-House	No. of times offered during the year	Number (students enrolled)	Number of Students (completed)	Course Outcome
Eduvance Training	External Training	1	13	13	•Able to develope IoT based project. • Able to design Embedded systems
Power Converter Design, MATLAB	In-house training	1	41	41	•Able to develope power converter project. • Able to Simulate power converter circuits.
PLC/SCADA	In-house training	1	40	40	•Programmable Logic Controller (PLC) • Supervisory Control & Data Acquisition • Industrial Control Panel (Designing & Maintenance)
Power System Design	In-house training	1	49	49	•Able to design Power System basic transmission line Simulations • Power System protection simulations
Panel Designing and wiring	In-house training	1	38	38	• Able to develop basic electrical drawing • Able to design basic electrical panel wiring

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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRICAL DEPARTMENT (2016-17)**

Name of Add on /Certificate programs offered	External/ In-House	No. of times offered during the year	Number (students enrolled)	Number of Students (completed)	Course Outcome
Cranes Software International Limited, Bangalore Training on Prog In C & DS / Linux System Prg.	External Training	1	2	2	<ul style="list-style-type: none"> <li>• Able to develop codes for embedded systems</li> <li>• Able to develop IDE for Embedded systems</li> </ul>
Cranes Software International Limited, Bangalore Training on Matlab & Embedded	External Training	1	2	2	<ul style="list-style-type: none"> <li>• Able to design Embedded systems • Able to basic codes for MATLAB</li> </ul>
RRVNL	External Training	1	49	10	<ul style="list-style-type: none"> <li>• Able to understand all types of electrical grid</li> <li>• Able to understand basic working of electrical grid system and transmission parameter</li> </ul>
Power Converter Design, MATLAB	In-house training	1	25	25	<ul style="list-style-type: none"> <li>•Able to develop power converter project.</li> <li>•Able to Simulate power converter circuits.</li> </ul>
PLC/SCADA	In-house training	1	41	41	<ul style="list-style-type: none"> <li>•Programmable Logic Controller (PLC)• Supervisory Control &amp; Data Acquisition • Industrial Control Panel (Designing &amp; Maintenance)</li> </ul>
Power System Design	In-house training	1	40	40	<ul style="list-style-type: none"> <li>•Able to design Power System basic transmission line Simulations •Power System protection simulations</li> </ul>
Control System Design	In-house training	1	49	49	<ul style="list-style-type: none"> <li>• Able to develop basic electrical drawing •Able to design basic electrical panel wiring</li> </ul>

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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRICAL DEPARTMENT (2017-18)**

Name of Add on /Certificate programs offered	External/ In-House	No. of times offered	Number of students	Number of Students	Course Outcome
Bharat Sanchar Nigam Limited	External Training	1	4	4	<ul style="list-style-type: none"> <li>• Provide understanding of operation of industrial systems</li> <li>• To provide opportunity for interaction with industry experts for practical knowledge</li> </ul>
CSIR - Central Electronics Engineering Research Institute	External Training	1	1	1	<ul style="list-style-type: none"> <li>• Able to develop IoT based project. • Able to design Embedded systems</li> </ul>
KTPS- Kota Super Thermal Power Station	External Training	1	2	2	<ul style="list-style-type: none"> <li>• Able to describe the power generation process and Transmission systems • Industrial exposure from industrial experts</li> </ul>
Cranes Software International Limited, Bangalore Training on Matlab & Embedded	Cranes Varsity	1	1	1	<ul style="list-style-type: none"> <li>• Able to design Embedded systems • Able to basic codes for MATLAB</li> </ul>
Kailsindh Thermal Power Project	External Training	1	3	3	<ul style="list-style-type: none"> <li>• Able to describe the power generation process and Transmission systems • Industrial exposure from industrial experts</li> </ul>
MERC: Basic Automation Training	External Training	1	3	3	<ul style="list-style-type: none"> <li>• Programmable Logic Controller (PLC) • Supervisory Control &amp; Data Acquisition</li> <li>• Variable Frequency Drive (VFD) • Human Machine Interface (HMI) • Industrial Control Panel (Designing &amp; Maintenance)</li> </ul>
Pyrotech Electronics Private Limited	External Training	1	2	2	<ul style="list-style-type: none"> <li>• Able to describe the production of various sensors and electrocronics circuits. • Industrial exposure from industrial experts</li> </ul>
Tempsons Instruments India Private Limited	External Training	1	2	2	<ul style="list-style-type: none"> <li>• Able to describe the production of various sensors and electrocronics circuits. • Industrial exposure from industrial experts</li> </ul>
Power Converter Design, MATLAB	In-house training	1	14	14	<ul style="list-style-type: none"> <li>• Able to develop power converter project.</li> <li>• Able to Simulate power converter circuits.</li> </ul>

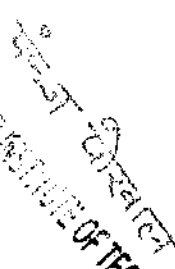

  
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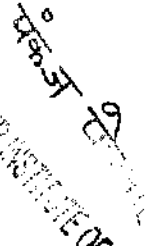
**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRICAL DEPARTMENT (2018-19)**

Name of Add on /Certificate programs offered	External/ In-House	No. of times offered	Number (students enrolled)	Number of Students (completed)	Course Outcome
Cranes Software International Limited, Bangalore Training on Prog In C & DS / Linux System Prg.	Cranes Varsity	1	3	3	<ul style="list-style-type: none"> <li>• Able to develop codes for embedded systems • Able to develop IDE for Embedded systems</li> </ul>
Thermax Limited	External Training	2	3	3	<p>Understanding of Basic power plant engineering, Working of Rankine cycle in actual power plant . • Types of boiler, accessories and mounting • Coal &amp; Ash handling power plant • Water treatment plant, water to steam path, Auxiliary cooling Water pump system • Electrical calculations of generations • Turbine startup (permissive and protection) • Process &amp; instrumentation diagram, Heat mass balance diagram, Turbine Lube Oil System, Key performance &amp; index • Safety and Environment</p>
Power Converter Design, MATLAB	In-house training	1	7	7	<ul style="list-style-type: none"> <li>• Able to develop power converter project • Able to Simulate power converter circuits.</li> </ul>
PLC/SCADA	In-house training	1	14	14	<ul style="list-style-type: none"> <li>• Programmable Logic Controller (PLC) • Supervisory Control &amp; Data Acquisition • Industrial Control Panel (Designing &amp; Maintenance)</li> </ul>
Power System Design	In-house training	1	25	25	<ul style="list-style-type: none"> <li>• Able to design Power System basic transmission line Simulations • Power System protection simulations</li> </ul>
Power System design PSCAD Simulation	In-house training	1	41	41	<ul style="list-style-type: none"> <li>• Able to develop basic electrical drawing • Able to design basic electrical panel wiring</li> </ul>

  
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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRICAL DEPARTMENT (2019-20)**

Name of Add on /Certificate programs offered	External/ In-House	No. of times	Number (students enrolled)	Number of Students (completed)	Course Outcome
MERC: Basic Automation Training	External Training	1	7	7	Programmable Logic Controller (PLC) • Supervisory Control & Data Acquisition • Variable Frequency Drive (VFD) • Human Machine Interface (HMI) • Industrial Control Panel (Designing & Maintenance)
MERC: Basic Automation Training	External Training	1	2	2	Programmable Logic Controller (PLC) • Supervisory Control & Data Acquisition • Variable Frequency Drive (VFD) • Human Machine Interface (HMI) • Industrial Control Panel (Designing & Maintenance).
GRRAS Solutions, Linux Training	External Training	1	7	7	• Able to develop codes for embedded systems • Able to develop IDE for Embedded systems
GRRAS Solutions, Linux Training	External Training	1	4	4	• Able to develop codes for embedded systems • Able to develop IDE for Embedded systems

  
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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRONICS AND COMMUNICATION DEPARTMENT**  
(2016-17)

Name of Add on	External/ In-	No. of times	Number	Number of	Course Outcome
Eduvance Training	External	1	16	16	CO1. Students will be able to use the ARM Cortex Mo based microcontroller boards.
					CO2. Students will be able to use various interface such as SPI, UART.
					CO3. Students will be able to interface various sensors to develop the IOT systems
Cranes Varsity Embedded System Training	External	1	14	14	CO1. Students will be able to use the ARM based microcontroller boards.
					CO2. Students will be able to use various interface such as SPI, UART, I2C & CAN protocols
					CO3. Students will be able to interface various sensors to develop the embedded systems

  
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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRONICS AND COMMUNICATION DEPARTMENT**

**(2017-18)**

Name of Add on	External/ In-	No. of times	Number	Number of	Course Outcome
Cranes Varsity Embedded System Training	External	1	14	14	CO1. Students will be able to write C code for embedded systems CO2. Students will be able to use MATLAB for GUI application development. CO1. Students will be able to use the ARM based microcontroller boards.
Cranes Varsity Embedded System Training	External	1	6	6	CO2. Students will be able to use various interface such as SPI, UART, I2C & CAN protocols CO3. Students will be able to interface various sensors to develop the embedded systems

  
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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRONICS AND COMMUNICATION DEPARTMENT  
(2018-19)**

Name of Add on	External/ In-	No. of times	Number	Number of	Course Outcome
CEERI Piani SDP on IoT	External	1	3+5	8	CO1. Students will be able to use the MSP430 based microcontroller boards. CO2. Students will be able to use various interface such as SPI, UART. CO3. Students will be able to interface various sensors to develop the IOT systems CO4. Students will be able to use various IoT light weight OS and communication protocols.
Cambridge Bussiness English	External	1	16	16	Co1. Students will learn to use bussines communication etiquettes. CO2. Students will be able to present or express themselves in corporate world. CO1. Students will be able to use the FPGA boards.
Industrial Training in VLSI Design and Verification by DKOP Labs Pvt. Ltd.	External	1	8	8	CO2. Students will be able to use System verilog for VLSI circuit design CO3. Students will be able to use System verilog for VLSI circuit ASIC verification

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**REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: ELECTRONICS AND COMMUNICATION DEPARTMENT  
(2019-20)**

Name of Add on /Certificate programs offered	External/ In-House	No. of times offered during the year	Number (students enrolled)	Number of Students (completed)	Course Outcome
MERC PLC Scada training	External	1	16	16	CO1. Programmable Logic Controller (PLC). CO2. Supervisory Control & Data Acquisition CO3. Industrial Control Panel (Designing & Maintenance) CO1. Students Will be able to configure, install, upgrade and maintain the Linux systems. CO2. Students will be able to manage system monitoring for performance and optimization. CO1. student will be able to use C & C++ language to develop software applications. CO2. Students will be able to choose efficient data structures to solve the problem. CO3. Students will be able to optimize the code space and time complexity.
GRRAS Solutions, LINUX Training	External	1	6+7+20	33	
CRANES Varsity IT Readiness Module	External	1	23	23	

  
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## Report on Add-on Trainings/Certificate Program 2015-16

Sr.No.	Training Name	No of Students Enrolled	No of Students Completed	Course Objective
1	QA/VA Session	86	86	CO 1: To enhance the aptitude and problem solving skills of students CO 2: Students will be able to solve the logical, reasoning and aptitude in the competition exams.
2	web programming	50	50	CO 1: To learn HTML tags and JavaScript Language programming concepts and techniques. CO 2: To develop the ability to logically plan and develop web pages. CO 3: To learn to write, test, and debug web pages using HTML and JavaScript.
3	Php	48	48	CO 1: Students will be able to write PHP scripts to handle HTML forms. CO 2: Students will be able to write regular expressions including modifiers, operators, and metacharacters. CO 3: Students will be able to create PHP programs that use various PHP library functions, and that manipulate files and directories.

  
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## Report on Add-on Trainings/Certificate Program 2016-17


Sr.No.	Training Name	No of Students Enrolled	No of Students Completed	Course Objective
1	C/D/SA	39	39	CO 1: Students will be able to choose efficient data structures and apply them to solve problems. CO 2: Students will be able to analyze the efficiency of programs based on time complexity. CO 3: Students will be able to prove the correctness of a program using loop invariants, pre-conditions and post-conditions in programs.
2	C/D/SA	43	43	CO 1: Students will be able to choose efficient data structures and apply them to solve problems. CO 2: Students will be able to analyze the efficiency of programs based on time complexity. CO 3: Students will be able to prove the correctness of a program using loop invariants, pre-conditions and post-conditions in programs.
3	C/D/SA	27	27	CO 1: Students will be able to choose efficient data structures and apply them to solve problems. CO 2: Students will be able to analyze the efficiency of programs based on time complexity. CO 3: Students will be able to prove the correctness of a program using loop invariants, pre-conditions and post-conditions in programs.
4	Python	50	50	CO 1: Write, Test and Debug Python Programs. CO 2: Implement Conditionals and Loops for Python Programs. CO 3: Use functions and represent Compound data using Lists, Tuples and Dictionaries
5	Adv Java	40	40	CO 1: Student will be able to use advanced technology in Java such as Internationalization, and Remote method Invocation CO 2: Student will learn how to work with JavaBeans.
6	web programming	38	38	CO 1: To learn HTML tags and JavaScript Language programming concepts and techniques. CO 2: To develop the ability to logically plan and develop web pages. CO 3: To learn to write, test, and debug web pages using HTML and JavaScript.
7	Android Programming	40	40	CO 1: student will be able to write simple GUI applications, use built-in widgets and components, work with the database to store data locally, and much more. CO 2: Understand the Android platform's organization, patterns and programming mechanisms and be able to use them effectively to develop their own Android applications.
8	QA/VA Session	75	75	CO 1: To enhance the aptitude and problem solving skills of students CO 2: Students will be able to solve the logical, reasoning and aptitude in the competition exams.
9	Php	55	55	CO 1: Students will be able to write PHP scripts to handle HTML forms. CO 2: Students will be able to write regular expressions including modifiers, operators, and metacharacters. CO 3: Students will be able to create PHP programs that use various PHP library functions, and that manipulate files and directories.
10	Data Analysis using R Program	30	30	CO 1: Ability to identify the characteristics of datasets and compare the trivial data and big data for various applications. CO 2: Ability to select and implement machine learning techniques and computing environment that are suitable for the applications under consideration.

  
 Date: 02-12-2017  
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## Report on Add-on Trainings/Certificate Program 2017-18

Sr.No.	Training Name	No of Students Enrolled	No of Students Completed	Course Objective
1	BA (2015-19 Batch) along with IBM group	20	18	CO 1: Understand the concept of apply the knowledge for analyzing the business data. CO 2: Students will be provided industry oriented course for better alignment with industry needs CO 1: Ability to identify the characteristics of datasets and compare the trivial data and big data for various applications. CO 2: Ability to select and implement machine learning techniques and computing environment that are suitable for the applications under consideration.
2	Data Science (Statistics)	63	63	CO 1: Write, Test and Debug Python Programs. CO 2: Implement Conditionals and Loops for Python Programs. CO 3: Use functions and represent Compound data using Lists, Tuples and Dictionaries
3	Python	70	70	CO 1: Student will be able to use advanced technology in Java such as Internationalization, and Remote method Invocation CO 2: Student will learn how to work with JavaBeans.
4	Java & Adv Java	45	45	CO 1: To learn HTML tags and JavaScript Language programming concepts and techniques. CO 2: To develop the ability to logically plan and develop web pages. CO 3: To learn to write, test, and debug web pages using HTML and JavaScript.
5	web programming	40	40	CO 1: student will be able to write simple GUI applications, use built-in widgets and components, work with the database to store data locally, and much more. CO 2: Understand the Android platform's organization, patterns and programming mechanisms and be able to use them effectively to develop their own Android applications.
6	Android Programming	62	62	CO 1: To enhance the aptitude and problem solving skills of students CO 2: Students will be able to solve the logical, reasoning and aptitude in the competition exams.
7	QA/VA Session	77	77	CO 1: Students will be able to write PHP scripts to handle HTML forms. CO 2: Students will be able to write regular expressions including modifiers, operators, and metacharacters. CO 3: Students will be able to create PHP programs that use various PHP library functions, and that manipulate files and directories.
8	Php	60	60	CO 1: students will be able design some IOT based prototypes CO 2: Understanding of working of sensors & actuators depending on use cases CO 1: Students will be able to choose efficient data structures and apply them to solve problems. CO 2: Students will be able to analyze the efficiency of programs based on time complexity. CO 3: Students will be able to prove the correctness of a program using loop invariants, pre-conditions and post-conditions in programs.
9	Basic IOT training on ARM mbed	40	40	
10	C/D/SA	50	50	

  
 Head of Institute of Technology  
 Institute of Technology  
 10/10/18



## Report on Add-on Trainings/Certificate Program 2018-19

Sr.No.	Training Name	No of Students Enrolled	No of Students Completed	Course Objective
1	SCOE Training	17	15	CO 1: Understand the concept of apply the knowledge for analyzing the business data. CO 2: Students will be provided industry oriented course for better alignment with industry needs
2	IBM-BA (2016-20 Batch)	6	6	CO 1: Understand the concept of apply the knowledge for analyzing the business data. CO 2: Students will be provided industry oriented course for better alignment with industry needs
3	IBM-BA (2015-19 Batch)	18	18	CO 1: Understand the concept of apply the knowledge for analyzing the business data. CO 2: Students will be provided industry oriented course for better alignment with industry needs
4	Php	65	65	CO 1: Students will be able to write PHP scripts to handle HTML forms. CO 2: Students will be able to write regular expressions including modifiers, operators, and metacharacters. CO 3: Students will be able to create PHP programs that use various PHP library functions, and that manipulate files and directories.
5	Android Programming	41	41	CO 1: student will be able to write simple GUI applications, use built-in widgets and components, work with the database to store data locally, and much more. CO 2: Understand the Android platform's organization, patterns and programming mechanisms and be able to use them effectively to develop their own Android applications.
6	Adv Java	45	45	CO 1: Student will be able to use advanced technology in Java such as Internationalization, and Remote method Invocation CO 2: Student will learn how to work with JavBeans.
7	QA/VA Session	89	89	CO 1: To enhance the aptitude and problem solving skills of students CO 2: Students will be able to solve the logical, reasoning and aptitude in the competition exams.
8	Full stack	39	39	CO 1: Students will be able to develop a complete web application from the scratch that includes Front-end, Backend and Data-exchange technologies. CO 2: Build strong foundations (ex: OOPS) in entry level engineers thereby making them job ready as per industry requirements.
9	NVIDIA DLI Certification	40	40	CO 1: Learn the fundamental techniques and tools required to train a deep learning model CO 2: Gain experience with common deep learning data types and model architectures CO 3: Enhance datasets through data augmentation to improve model accuracy
10	Oracle SQL	45	45	CO 1: Understand basic concepts of how a database stores information via tables CO 2: Understanding of SQL syntax used with Oracle SQL
11	C/DSA	45	45	CO 1: Students will be able to choose efficient data structures and apply them to solve problems. CO 2: Students will be able to analyze the efficiency of programs based on time complexity. CO 3: Students will be able to prove the correctness of a program using loop invariants, pre-conditions and post-conditions in programs.

  
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## Report on Add-on Trainings/Certificate Program 2019-20

Sr.No.	Training Name	No of Students Enrolled	No of Students Completed	Course Objective
1	DA & ML Training (2nd Year)	53	53	CO 1: Understand machine learning concepts and range of problems that can be handled by machine learning. CO 2: Students will be able to apply the machine learning concepts in real life problems.
2	DA Training (1st Year)	32	32	CO 1: Ability to identify the characteristics of datasets and compare the trivial data and big data for various applications. CO 2: Ability to select and implement machine learning techniques and computing environment that are suitable for the applications under consideration.
3	IBM-BA (2016-20 Batch)	6	6	CO 1: Understand the concept of apply the knowledge for analyzing the business data. CO 2: Students will be provided industry oriented course for better alignment with industry needs
4	Red hat	29	29	CO 1: Students will be able to Configuring, installing, upgrading, and maintaining Linux systems using established standards and procedures Providing operational support CO 2: Students will be able to managing systems for monitoring system performance and availability
5	Data Science	62	62	CO 1: Ability to identify the characteristics of datasets and compare the trivial data and big data for various applications. CO 2: Ability to select and implement machine learning techniques and computing environment that are suitable for the applications under consideration.
6	Full Stack	32	32	CO 1: Students will be able to develop a complete web application from the scratch that includes Front-end, Backend and Data-exchange technologies. CO 2: Build strong foundations (ex: OOPS) in entry level engineers thereby making them job ready as per industry requirements.
7	NVIDIA DLI Certification	25	25	CO 1: Learn the fundamental techniques and tools required to train a deep learning model CO 2: Gain experience with common deep learning data types and model architectures CO 3: Enhance datasets through data augmentation to improve model accuracy
8	Mysql	70	70	CO 1: Understand basic concepts of how a database stores information via tables CO 2: Understanding of SQL syntax used with MySQL
9	Java	70	70	CO 1: knowledge of the structure and model of the Java programming language. CO 2: Use the Java programming language for various programming technologies.
10	Adv. Java	70	70	CO 1: Student will be able to use advanced technology in Java such as Internationalization, and Remote method Invocation CO 2: Student will learn how to work with JavaBeans.
11	Sales force	30	30	CO 1: Students will be able to create the application on salesforce CRM. CO 2: Students will be able to administration work on salesforce CRM.

  
 Head of the Department  
 Department of Information Technology  
 Anna University, Chennai

**Report on Add on / Certificate Programs Other than online courses: Civil  
Engineering Department**

2015-16

Name of the Program	List of Students enrolled	Duration	Assessment Procedures	Summary Report of each Program with their outcome
<b>Staad Pro Training</b>	Batch 2012-16	10 days	On the basis of error free files through software	Students learned about commands and design concepts of staad pro and able to do run analysis and design result of RCC structures
<b>Winter Survey Camp</b> (Triangulation, Contouring, Profile & Cross-sectional Leveling Estimation & Valuation, Total Station, Column Layout, Plane Table Survey)	Batch 2012-16	10 Days	Report writing and viva with presentation	Students learned the application of Surveying instrument in Levelling and Triangulation techniques. Hands on practice on auto level, theodolite, total station.
<b>Site Visit at Chirva Tunnel</b>	Batch 2013-17 (7th Sem)	1 Day	Viva	Students Learned the structure of the tunnel and retaining structure around the tunnel

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**Report on Add on / Certificate Programs Other than online courses: Civil  
Engineering Department**

2016-17

Name of the Program	List of Students enrolled	Duration	Assessment Procedures	Summary Report of each Program with their outcome
<b>Winter Survey Camp</b> (Triangulation, Contouring, Profile & Cross-sectional Leveling Estimation & Valuation, Total Station, Column Layout, Plane Table Survey)	Batch 2014 (5th Sem)	30 Days	Report writing and viva with presentation	Students learned the application of Surveying instrument in Levelling and Triangulation techniques. Hands on practice on auto level, theodolite, total station.
<b>Site Visit at Mahi Dam:</b> Importance of Reservoirs, Capacity, History, Control Unit, Functioning and operation under high rains etc.	Batch 2013-17 (7th Sem)	1 Day	Viva	Students Learned the working of Mahi Dam and the characteristics of Dam like catchment area, Volume of water flow etc.
<b>MNIT Visit :</b> Campus visit, Area of land, new block construction, Number of labs and instruments for NDT testing, etc.	Batch 2014-18 (5th sem )	1 days	Viva	Students Learned the structural & architectural concepts of MNIT Campus
<b>Mount Abu:</b> Educational tour, History of the place, etc.	Batch 2014-18 ( 4th sem)	03 Days	Viva	Students explored the city of Mount Abu
<b>Auto Desk Certification Training</b>	Batch 2014-2018 Batch 2015-2019	5 Days	Certificate provided by Autodesk after exam	Concepts of planning of building through auto cad, basic commands, learning of 2d and 3d views in autocad

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 PUNJAB UNIVERSITY  
 DEPARTMENT OF CIVIL ENGINEERING  
 LUDHIANA

**Report on Add on / Certificate Programs Other than online courses: Civil  
Engineering Department**

2017-18

Name of the Program	Name of the students enrolled	Duration	Assessment Procedures	Summary Report of each Program with their outcome
<b>Winter Survey Camp</b> (Concrete Mix, Triangulation, Contouring, Profile & Cross-sectional Levelling Estimation & Valuation, Total Station, Column Layout, Plane Table Survey)	Batch 2015 (5th Sem)	30 Days	Report writing and viva with presentation	Students learned the application of Surveying instrument in Levelling and Triangulation techniques. Hands on practice on auto level, theodolite, total station.
<b>Summer Survey Camp</b> (Concrete Mix, 3DS Max, Estimation, Staaad Pro, Total Station, Profile levelling, Contouring, Estimation)	Batch 2016 (6th Sem)	30 Days	Report writing and viva with presentation	Students learned the application of Surveying instrument in Levelling and Triangulation techniques. Hands on practice on auto level, theodolite, total station.
<b>Shiva Statue</b> : About the history, Importance of structure, Design aspects for wind and seismic conditions, special materials, form work etc.	Batch 2014-18 (5th sem )	1 Day	Presentation	Students learned the structural design of Shiva statue and also various characteristics like foundation, height, material used etc.
<b>Site Visit at Mahi Dam</b> : Importance of Reservoir, Capacity, History, Control Unit, Functioning and operation under high rains etc.	Batch 2014-18 ( 4th sem)	1 Day	Viva	Students Learned the working of Mahi Dam and the characteristics of Dam like catchment area, Volume of water flow etc.
<b>Site Visit at Mahi Dam</b> : Importance of Reservoir, Capacity, History, Control Unit, Functioning and operation under high rains etc.	Batch 2015-19 (6th Sem)	1 Day	Viva	Students Learned the working of Mahi Dam and the characteristics of Dam like catchment area, Volume of water flow etc.

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Development of Rain Water Harvesting System through National Highway profiles by using GIS techniques and Field survey	Shiva Chouhan, Mohit Jain, Kamlesh Panchal, Yash Bhardwaj	30 Days	On the Paper writing Presentation	Students gather data regarding elevation points and planned an efficient rain water harvesting.
Environment Friendly Bricks and Blocks using only Waste Materials	Lokesh Puri Goswami, Kunjpreet Kaur Arora, Nikita Sharma, Gaurav Suthar, Sayed Aamir, Kunjal Jain	Yearly	On the basis of performance	Students made environment friendly bricks and blocks using waste material

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**Report on Add on / Certificate Programs Other than online courses: Civil  
Engineering Department**

2018-19

Name of the Program	List of Students enrolled	Duration	Assessment Procedures	Summary Report of each Program with their outcome
Requirements and plannings of Badliya village for converting it into smart village category in Banswada Rajasthan	Om Prakash Prajapat, Bhuvnesh Suthar, Suresh Kumar, Mahendra Kumar	20 Days	On the basis of performance during project and paper writing	Students surveyed the area and planned a smart village at Badliya by introducing solar lights, smart primary health center etc.
Workshop on Crushed EPS in Light weight concrete	Nikita Sharma, Gaurav Suthar, Sayed Aamir Hussain	30 days	On the basis of performance and results	Students have made light weight concrete successfully and won first prize in competition in IIT Mumbai
<b>Winter Survey Camp</b> (Total Station, Profile levelling, Contouring, Estimation, Market Survey, Traffic Studies)	Batch 2016 (5th Sem)	30 Days	Report writing and viva with presentation	Students learned the application of Surveying instrument in Levelling and Triangulation techniques.
<b>Shiva Statue</b> : About the history, Importance of structure, Design aspects for wind and seismic conditions, special materials, form work etc.	Batch 2015-19 (5th Sem)	1 Day	Viva	Students learned the structural design of Shiva statue and also various characteristics like foundation, height, material used etc.
<b>Site Visit at Kaladwas Indusrial Area(Sanchi Group)</b> : Estimations , Column-footing layout plan, Information about workmanship, grade of concrete and reinforcement etc.	Batch 2015-19 (6th Sem)	1 Day	Viva	Students learned the construction of Multistory building at SANCHI Group.
<b>Highway project (debari-kaya bypass):</b> Pretensioning, postensioning, piers reinforcement. launhing of I girders, Mix design etc	Batch 2015-19 (6th Sem)	1 Day	Viva	Students learned the Pre-tensioning and Post-Tensioning Process in highway girders.

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2018-19

<b>Site Visit At eklingpura (Multistorey building)</b> : Frame work, slab - beam reinforcement, interior work informations, grade of quality, in situ testing.	Batch 2015-19 (6th Sem)	1 Day	Viva	Students learned the construction of Multistorey building at Eklingpura building.
<b>Site Visit at Kaladwas Industrial Area(Sanchi Group)</b> : Estimations , Column-footing layout plan, Information about workmanship, grade of concrete and reinforcement etc.	Batch 2016-20 ( 4th Sem)	1 Day	Viva	Students learned the building technology concepts by understanding the structural working process at the site.
<b>Shiva Statue</b> : About the history, Importance of structure, Design aspects for wind and seismic conditions, special materials, form work etc.	Batch 2016-20 (6th Sem)	1 Day	Viva	Students learned the structural design of Shiva statue and also various characteristics like foundation, height, material used etc.
<b>Site Visit at Mahi Dam:</b> Importance of Reservoir, Capacity, History, Control Unit, Functioning and operation under high rains etc.	Batch 2016-20 ( 4th Sem)	1 Day	Viva	Students Learned the working of Mahi Dam and the characteristics of Dam like catchment area, Volume of water flow etc.
<b>Site Visit at Kaladwas Industrial Area(Sanchi Group)</b> : Estimations , Column-footing layout plan, Information about workmanship, grade of concrete and reinforcement etc.	Batch 2017-21 (5 th Sem)	1 Day	Viva	Students learned the construction of Multistorey building at SANCHI Group.
<b>Shiva Statue</b> : About the history, Importance of structure, Design aspects for wind and seismic conditions, special materials, form work etc.	Batch 2017-21 (5 th Sem)	1 Day	Viva	Students learned the structural design of Shiva statue and also various characteristics like foundation, height, material used etc.



<b>Site Visit At Eklingpura (Multistorey building)</b> : Frame work, slab - beam reinforcement, interior work informations, grade of quality, in situ testing.	Batch 2017-21 (4 th Sem)	1 Day	Viva	Students learned the construction of Multistorey building at Eklingpura building.
<b>Shiva Statue</b> : About the history, Importance of structure, Design aspects for wind and seismic conditions, special materials, form work etc.	Batch 2018-22 (4 th sem)	1 Day	Viva	Students learned the structural design of Shiva statue and also various characteristics like foundation, height, material used etc.
<b>Site Visit at Kaladwas Industrial Area(Sanchi Group)</b> : Estimations , Column-footing layout plan, Information about workmanship, grade of concrete and reinforcement etc.	Batch 2018-22 (4 th sem)	1 Day	Viva	Students learned the building technology concepts by understanding the structural working process at the site.
<b>SMART CITY PROJECT (UDAIPUR)</b> : Ayad river surveying, rejuvenation and redevelopment plan prepared.	Lokesh Puri Goswami, Kundan Gorana, Kamlesh kumar, Sachin kumar. Harshit Jharoli, Mohit	7 Days	On the basis of performance in project and planning and drawing	Students collected elevation data and proposed a plan for rejuvenation of Ayad river (Udaipur).
<b>INTERNATIONAL CIVIL ENGINEERING SYMPOSIUM (IIT BOMBAY)</b> : Research paper presented on Low cost bricks using marble slurry, waste plastic and sand, won first prize.	Lokesh Puri Goswami, Harshit Jharoli.	2 Month	On the basis of research paper	Research paper presented on Low cost bricks using marble slurry, waste plastic and sand, won first prize.
<b>SMART INDIA HACKATHON - HARDWARE 2018 (MHRD)</b> : Participated in 5 days grand finale at NIT Tiruchirapalli, Prototype developed and demonstrated. Won first prize and received grant for idea implementation.	Kunjai Jain, kunjpreet kour, Lokesh Puri, Gaura Suthar Syad Amir. Dharmenra.	Yearly	On the basis of performance in project and result	Participated in 5 days grand finale at NIT Tiruchirapalli, Prototype developed and demonstrated. Won first prize and received grant for idea implementation.

TECHNICAL EDUCATION SOCIETY  
 NIT TIRUCHIRAPALLI  
 2018-2019

<b>Bentley Institute Student Design Challenge 2019:</b> Seismic analysis of building, Staad Pro,	Kamakshi Sharma, Syad Amir, Nikita Sharma	20 Days	On the basis of project performance	Students Designed a building according to the problem statement in Staad Pro software and learned designing and analysis of a high rise building.
IPRENEUR19 (TATA INSTITUTE OF SOCIAL SCIENCE, MUMBAI): Idea Pitched at Ipreneur competition and won 2nd prize.	Kunjpreet kour, Lokesh Puri	Yearly	Not required	
<b>Bentley Institute Student Design Challenge 2019 :</b> Seismic analysis of building, Staad Pro,	Batch 2017-21 and 2018-22	20 Days	On the basis of project performance	Students Designed a building according to the problem statement in Staad Pro software and learned designing and analysis of a high rise building.

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**Report on Add on / Certificate Programs Other than online courses: Civil  
Engineering Department**

2019-20

Name of the Program	List of Students enrolled	Duration	Assessment Procedures	Summary Report of each Program with their outcome
Requirements of Solid Waste Management System in Savina Vegetable Market at Smart City Udaipur in Rajasthan	Kunjai Jain, Parveen Choudhary, Kishan Dangi, Kirthesh Kalal	7 Days	On the basis of performance in project, report writing and presentation at Vyapari Mandal Sangh of Savina Market	Students gathered data regarding waste generation and their characterization and proposed a requirement of cleaning system.
<b>Winter Survey Camp</b> (Estimation, Total Station, Profile levelling, Contouring, Estimation)	Batch 2017 (5th Sem)	30 Days	Report writing, viva, presentation	Students learned the application of Surveying instrument in Levelling and Triangulation techniques.
<b>Site Visit at residential building projet, AKME Paradise:</b> Frame work, slab - beam reinforcement, interior work information, grade of quality, in situ testing.	Batch 2017-21 (5 th Sem)	1 Day	Viva	Students learned the structural and architectural concepts of multistory building at AKME Paradise
LAUNCH & ZOOM 2.0 (IIM UDAIPUR): Currently project incubated for business development.	Kunjpreet kour, Lokesh Puri	3 year	Not required	Currently project of environmentally friendly bricks incubated for business development.
AAKAR 2020 (IIT BOMBAY): Porous concrete developed and sample prepared for research work.	Batch 2018-22 and Batch 2019-23	30 days	On the performance in project	Student researched on Porous concrete manufacturing process and implemented it in the competition by making a porous.