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)



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 (2016-17)

tasking • Human-mechanic-interface design		F	Hrs)			
			(40			0
programming and use of actuators in automation and selection criteris			Weeks		External	Automation Technologies- Basic Level
Manufacturing excellence through relevant automation • Controller		···	2			
sensors for the Industrial Automation		┝				
Electro Hydraulic and Electro Pneumatic systems • Use various industrial			Hrs)			
develop small application programs using sensors and actuators. • Summarize			(80	ŀ	2	Intermediate Level
 Connects the peripherals with the PLC • Use various PLC functions and 	<u>-</u>	<u>S</u>	Weeks		Eyternal	Automation Technologies-
Described the working of various blocks of basic industrial automation system			4			
tasking • Human-mechanic-interface design	<u> </u>		Hrs)			
 Industrial control system, PLC Programming, use of function blocks, Multi 			(40	,		
programming and use of actuators in automation and selection criteris	<u>-</u> 	<u>.s</u> 1	Weeks		External	Automation Technologies- Basic Level
Manufacturing excellence through relevant automation • Controller			2			
troubleshooting process and gone through to identify problems and their						
axes, and how they are used to control robot movement. • Introduced to the						
Described the most common robot axes. Explained how to understand these		_	Hrs)			
the issue of compliance and describes how to maintain end effectors. •	U	U	(40	-	EXCELLIA	NONA- Dasic Robot Flogramming
Described the various types of end effectors and their uses. It also explains			Weeks			VIIVA Basis Bahat Brazzamaina
fundamental concepts required for programming of industrial robots •			2			
as well as basic safety precautions for working with robots. • Covered the		·		·		
Covered the classifications, characteristics, and functions of industrial robots			•			
Course Outcome	약	약	COULSE	es	Certificate	offered
	er	<u>e</u>		Ħ	lraining/	Name of Add on / Certificate programs
		<u> </u>	on of	<u> </u>	70000	
			Durati	2 3	2	
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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)

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Name of Add on /Certificate programs Training / / Basic Automation Training(PLC & SCADA)		No. of times offered	Durati on of course 30 days	No. of Durati Numbe Numb times on of rof er of offered course student Stude ays 16 16	(e A)	
Robotics & Industrial Automation(KUKA- CIT)	External	ь	2 Weeks	22	N.3	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		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.

-mally.

Industrial Training Program(AKGEC)	Vehicle Design & Development (Specialized)	Advanced Diploma in Industrial Robotics (AGIIT)		
External	External	External		
ш	н	ح م		
6 Weeks	15 Days	30 days		
ω	25	22		
ω	25	22		
Manufacturing excellence through relevant automation • Controller programming and use of actuators in automation and selection criteris •Industrial control system, PLC Programming, use of function blocks, Multi tasking • Humanmechanic-interface design	Rollcage/Chassis Design-CAD & PVC model Generation • Suspension & Steering design & Analysis •Braking and subassembly, Engine and transmission, electrical system,	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		

1.2.2 Number of Add on /Certificate programs offered during the last five years (10)
REPORT ON ADD ON / CERTIFICATE PROGRAMS OTHER THAN ONLINE COURSES: MECHANICAL DEPARTMENT (2018-19)

	<u>'</u>				֓֞֜֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֟֜֜֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֡֜֜֡֓֓֡֓֡֓֜֓֡֓֡֓֡֓֡	1
	Add	No. of		Mun	Numb	
	on ti	times	, מו	ber –	er of	
1	Traini of	-	n or		Stude	
Name of Add on /Certificate programs offered	ng/	 	course	stude	nts	Course Outcome
		• •				Covered the classifications, characteristics, and functions of industrial robots as
						well as basic safety precautions for working with robots. • Covered the
1	•)			Described the various types of end effectors and their uses. It also explains the
Robotics & Industrial Automation (KUKA-CIT)	extern	<u> </u>	Weeks	16	16	issue of compliance and describes how to maintain end effectors. • Described
			6			the most common robot axes. Explained how to understand these axes, and
						how they are used to control robot movement. • Introduced to the
						causes.
						Understanding of Basic power plant engineering, Working of Rankine cycle in
						actual power plant • Types of boiler, accessories and mounting • Coal & Ash handling power plant • Water treatment plant water to steam nath Auxiliary
Power Plant Engineering E	Extern	2		(9+9)	18	cooling Water pump system • Mechanical interlock and protection of power
	<u> </u>		Days			plant • Boiler startup (permissive and protection) • Turbine startup (permissive and protection) • Process & instrumentation diagram, Heat mass balance
						diagram, Turbine Lube Oil System, Key performance & index • Safety and
	:	-				Environment
Industrial Training Program(AKGEC)	Extern	<u>-</u>	6	4	4	Industrial Hydraulics, Pneumatics. • PLCs • Interfacing of pneumatics with PLC
9 9.	<u>a</u>	ا	Weeks			 Introduction to SCADA system (win studio) Hands on with Sensors,
	_					Hydraulic System, Pneumatic System, PLC, HMI, SCADA. Etc.

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Environment					
and protection) • Process & instrumentation diagram, Heat mass balance diagram, Turbine Lube Oil System, Key performance & index • Safety and					
plant • Boiler startup (permissive and protection) • Turbine startup (permissive	 ٠	Days	ı	<u>ಬ</u>	
cooling Water pump system • Mechanical interlock and protection of power	 ىر	30	J	Extern	Thermay limited
handling power plant • Water treatment plant, water to steam path, Auxiliary		_			
actual power plant . • Types of boiler, accessories and mounting • Coal & Ash				-	
Understanding of Basic power plant engineering, Working of Rankine cycle in			·		

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

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

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