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CRITERION-2 TEACHING-LEARNING AND EVALUATION

KEY INDICATOR 2.5- EVALUATION PROCESS AND REFORMS

Metric No 2.5.2 Mechanism of Internal Assessment Is Transparent and Robust in Terms of Frequency and Variety 2022 - 23

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ACADEMIC YEAR

2022 - 23

Notification of Continuous Internal Evaluation (CIE)





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DEPARTMENT OF MECHANICAL ENGINEERING

ANSWER SHEET VERIFIED BY STUDENT



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INTERNAL TEST - I / II

- a) Register Number : 9 2 0 8 1 9 1 1 4 0 2 2
- b) Year & Department : IV - Mech.
- c) Subject code & Title : DIE751 - Robotics
- d) Date & Session (FN/AN) : 21/09/2022 / FN
- e) Number of pages used : 08

[Signature] 21/9/22
Name and Signature of the Hall
Superintendent with Date

Students has to put a tick (✓) mark for the questions attended in tick mark column

PART-A			
Question No.	✓	CO...1... Marks	CO...2... Marks
1.	✓	2	
2.	✓	2	
3.	✓	2	
4.	✓		2
5.	✓		2
TOTAL		6	4
TOTAL MARKS		10	

Students has to put a tick (✓)
mark for the questions attended in tick mark column

PART-B & C							
Question No.	(i)	i	i	(ii)	ii	ii	Total Marks
	✓	CO...1... Marks	CO...2... Marks	✓	CO...1... Marks	CO...2... Marks	
6.	✓	8					8
7.	a) ✓		15				15
	b)						
8.	a) ✓	15					15
	b)						
TOTAL		23	15				38

CO. No.	Total Marks	Attained Marks
CO...1...	30	29
CO...2...	20	19

Grand Total	48
	50

Verified
S. Narayan

[Signature]
Name and Signature of the Faculty

T. Balasubramani

[Signature]
Name and Signature of the HoD

INTERNAL EXAM

CIE 751 - ROBOTICS

Part - A

1. Pitch, yaw, roll.

- * Pitch :- up and down rotation.
- * Yaw :- left and right rotation.
- * Roll :- side to side rotation.

2. Work volume.

Work Volume refers to the three dimensional space within which a robot or a robotic system can perform its tasks or operations. It defines the reachable area or space where the end effector or tool of the robot can move and interact with objects.

3. Three degrees of freedom

Translation (x, y, z) :- movement along three axes, typically representing forward/backward (x), left right (y), up/down (z) motion.

Rotation (Roll, Pitch, yaw) :-

Rotational movements around three axes typically representing side to side roll, up and down (pitch), left to right (yaw) rotation.

Flexion/Extension :- Bending or straightening movement. Such as bending the Elbow or knee.

4. Robot and end effector
- * Grippers :- Grasping devices for object manipulation.
 - * Welding Guns :- Tool for automated welding process.
 - * Suction cups :- Used for lifting smooth object.
 - * Cutting tools :- Blades for trimming or machining tasks.
 - * 3D print Heads :- Nozzles for additive manufacturing.

5. End effector.

End effector are devices or tools attached to the end of a robotic arm or manipulator, designed to perform specific task such as grasping objects, welding, cutting or any other action required by the application.

PART - B

6. The Industrial robot

Industrial robot can be classified into several types based on their mechanical structure, application, and control system. Here's a brief overview:

Articulated Robots :-

These robots have rotary joints resembling a human arm allowing for multi-axis movement. They are versatile and commonly used in assembly, welding, and painting applications.

SCARA robots :-

SCARA robots have two parallel rotary joints for horizontal motion and one linear joint for vertical motion.

Cartesian/gantry Robots :-

these robots move along three linear axes (x, y, z) similar to a CNC Machine. To applications requiring precise linear motion, such as material handling, packaging, and CNC machining.

Delta robot :-

Delta robot consist of three arms connected to a central platform. They are known for their high speed and precision, making them ideal.

Parallel robot :-

Also known as parallel manipulator these robot have multiple limbs connected to the end effector and base through parallel linkages.

Collaborative robots :-

robots are designed to work alongside humans in a shared workspace safely. They feature advanced sensors and programming to detect and respond to human presence, machine tending, and quality inspection.

Mobile robot :-

* These robot are equipped with wheels or tracks for autonomous movement within a workspace.

* Each type of industrial robot has its own strength and limitation, making them suitable for different applications depending on factors such as speed requirement.

PART - C

7. Pneumatic Actuator

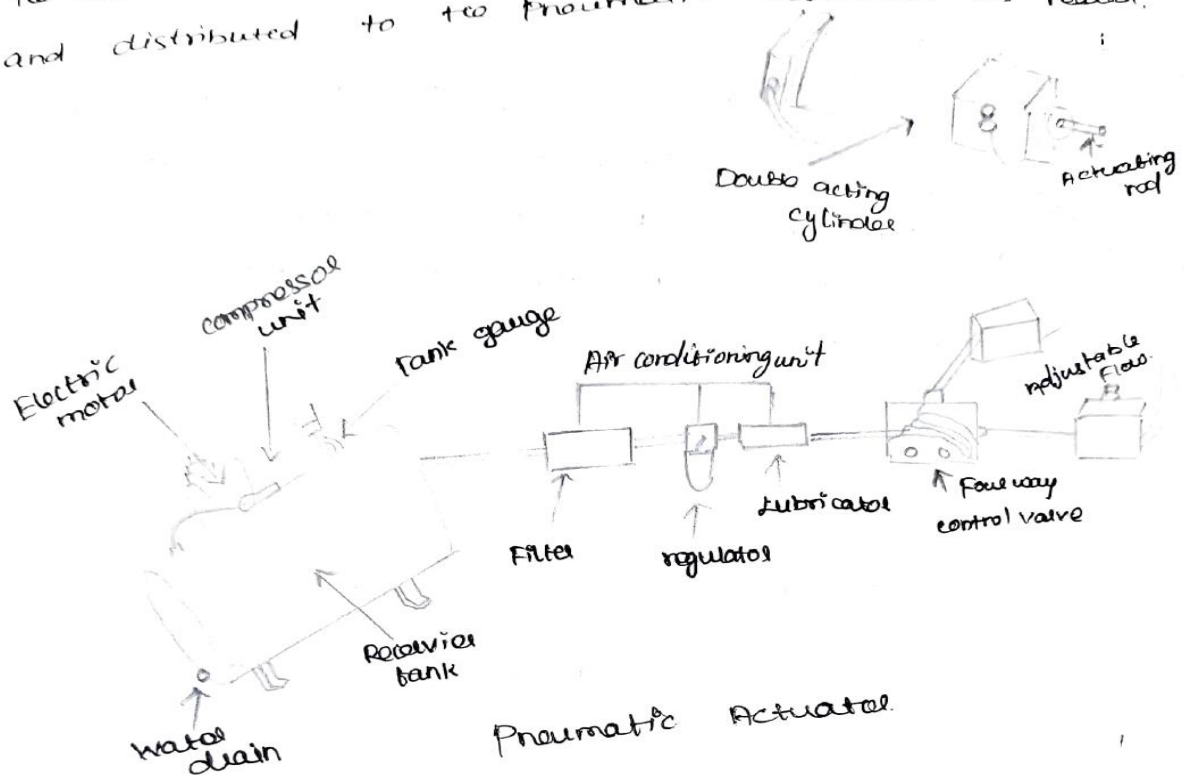
A pneumatic actuator system is a mechanism that uses compressed air generate motion. It typically consists of a pneumatic cylinder, valves, tube and an air compressor. Here's a brief explanation along with a simple sketch.

Component of pneumatic Actuator system.

Pneumatic cylinder :- The core components responsible for converting compressed air energy into linear motion. It consists of a cylindrical chamber with a piston inside.

Valve :- Valve control the flow of compressed air into and out of the pneumatic cylinder. A directional control valve direct air flow to either extend or retract the piston in the cylinder.

Air compressor :- To air compressor supplies compressed air to the system. It pressurizes the air, which is then stored in a reservoir and distributed to the pneumatic actuators as needed.



Working Principle :-

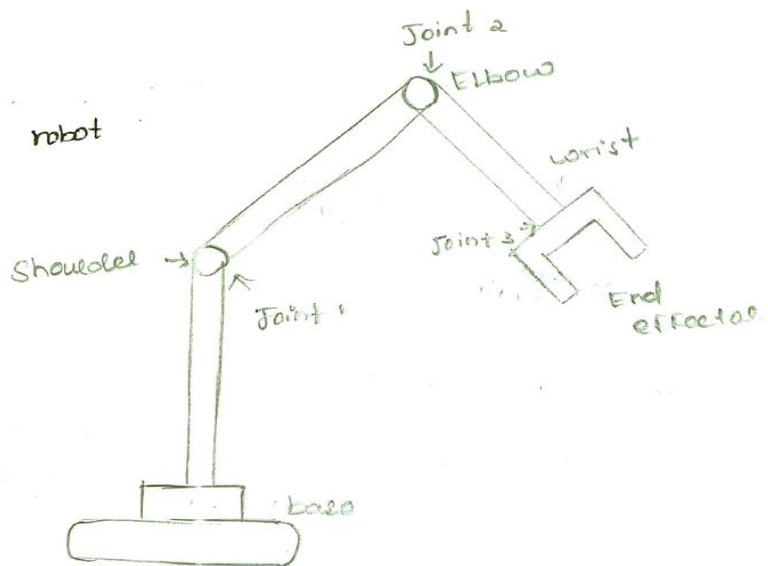
* **Extension** :- When compressed air is directed into one side of the pneumatic cylinder by the directional control valve, it pushes the piston, causing it to extend outward.

* **Retraction** :- By reversing the direction of the air flow using the directional control valve, the piston retracts back into the cylinder.

* Pneumatic cylinder with a piston inside is connected to an air compressor. When the valve directs compressed air into one side of the cylinder, the piston extends.

* The basic setup illustrates how pneumatic actuators generate linear motion using compressed air, making them suitable for various applications in industries such as manufacturing, automation, and robotics.

8. End effector of an robot



Industrial robot are complex machines designed to automate various manufacturing processes, performing tasks such as welding, painting, assembly, palletizing, Packaging, and more.

Base :-

The base is the Foundation of the robot providing stability and support. It often contains the robot's motors and drive mechanisms, which allow it to move.

Arm :-

The arm is the main body of the robot, consisting of multiple segments called links. These links are connected by joints that allow the arm to move in different directions. Common types of joint includes.

* Revolute joint :- Allows rotation around an axis like the human shoulder.

* Prismatic joint :- Enables linear motion along a single axis, similar to a piston.

End effector :-

Also known as the robot's hand the end effector is the tool or attachment that interacts with the workpiece. End effectors can vary widely depending on the specific task the robot is performing. Examples include grippers, welding torches, suction cups, and specialized tools for tasks like painting or assembly.

Actuator and Motors :-

Actuator are devices that convert energy into mechanical motion. these motors are controlled by the robot's controller, which sends commands to dictate the desired motion.

Sensor :-

* Sensors play a crucial role in industrial robots by providing feedback about the robot's environment and its own state.

* Position sensor :- provide information about the position and orientation of the robot joint.

Controller :-

* The controller is the brain of the industrial robot, responsible for interpreting commands, coordinating motion, and managing interactions with peripheral devices such as sensor and actuator.

* It typically includes hardware components such as processors, memory, and input/output interface programming and controlling the robotic behaviour.

Safety Features :-

* Industrial robots are equipped with various safety features to protect human operators and prevent accidents. these may include.

* Emergency stop buttons :- Allows immediate halting of robot motion in case of emergencies.

* collision detection systems :- sensors that detect unexpected collisions between the robot and its surroundings, triggering a safety response.

STUDENTS WEB PORTAL ENTRY

DEPARTMENT OF MECHANICAL ENGINEERING

The sample of Internal marks entered in Anna University web portal is attached below.

- Period 1 – Entry of Attended hours only
- Period 2 – Entry of internal marks (**IM1**)
- Period 3 – Entry of internal marks (**IM2**)
- Period 4 – Entry of internal marks (**MODEL**)



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Assessment Details Entered
NOV. / DEC. EXAMINATION, 2021 - EXAMINATIONS

Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

Branch Code / Name : 106 : B.E. Electronics and Communication Engineering University : AUC
Semester : 07

Register No.	Name of the Student	Subjects	Attend hr 1	Total hr 1	Attend hr 2	Total hr2	IM 2	Attend hr 3	Tot hr 3	IM 3	Attend hr 4	Total hr4	IM 4
920818106001	ABILASHA M	EC8092	21	21	15	15	99	15	16	100	22	22	100
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		EC8702	21	21	14	14	98	14	14	99	20	20	99
		EC8711									60	60	99
		EC8751	22	22	16	16	98	15	16	97	16	16	97
		EC8761									60	60	100
		EC8791	21	21	14	14	96	15	15	97	21	21	99
		OIC751	21	21	16	16	100	16	16	100	21	21	100
		EC8092	21	21	15	15	99	16	16	100	22	22	100
		EC8701	21	21	17	17	99	17	17	99	17	17	99
920818106002	ABINAYA S	EC8702	21	21	14	14	99	14	14	99	20	20	99
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		EC8761									60	60	100
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		EC8791	20	21	13	14	92	14	15	92	21	21	94
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		EC8711									60	60	97
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Assessment Details Entered

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Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

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Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

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	EC8702	21	21	14	14	97	14	14	97	20	20	98
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	EC8751	22	22	16	16	92	16	16	92	16	16	92
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	EC8791	21	21	12	14	86	14	15	86	20	21	90
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920818106029	EC8092	21	21	15	15	99	16	16	99	22	22	100
	EC8701	21	21	16	17	99	16	17	99	16	17	99
	EC8702	21	21	14	14	99	14	14	99	20	20	99
	EC8711									60	60	99
	EC8751	22	22	16	16	98	16	16	98	16	16	98
	EC8761									60	60	100
	EC8791	21	21	14	14	98	15	15	98	21	21	98
	OIC751	21	21	16	16	100	16	16	100	21	21	100
920818106031	EC8092	21	21	15	15	98	16	16	98	22	22	98
	EC8701	21	21	16	17	98	16	17	98	16	17	98
	EC8702	21	21	14	14	98	14	14	98	20	20	98
	EC8711									60	60	99
	EC8751	22	22	15	16	98	15	16	98	15	16	98
	EC8761									60	60	99
	EC8791	21	21	14	14	98	15	15	98	21	21	100
	OIC751	21	21	16	16	98	16	16	98	21	21	98
920818106032	EC8092	21	21	14	15	97	16	16	99	22	22	97
	EC8701	21	21	16	17	97	16	17	97	16	17	97
	EC8702	21	21	14	14	98	14	14	98	20	20	98
	EC8711									60	60	98
	EC8751	22	22	16	16	96	16	16	96	16	16	96
	EC8761									60	60	99
	EC8791	21	21	14	14	96	15	15	96	21	21	98
	OIC751	21	21	16	16	96	16	16	96	21	21	96
920818106033	EC8092	16	21	13	15	80	15	16	85	20	22	85
	EC8701	20	21	15	17	75	15	17	83	15	17	75
	EC8702	17	21	12	14	78	12	14	85	17	20	79
	EC8711									54	60	92
	EC8751	17	22	15	16	77	15	16	82	15	16	77
	EC8761									54	60	96
	EC8791	18	21	12	14	77	12	15	80	19	21	90
	OIC751	20	21	15	16	79	15	16	86	18	21	85
920818106035	EC8092	19	21	15	15	97	14	16	97	21	22	98
	EC8701	20	21	16	17	84	16	17	84	16	17	84
	EC8702	16	21	13	14	89	13	14	89	20	20	90
	EC8711									54	60	91
	EC8751	17	22	14	16	86	14	16	86	14	16	86
	EC8761									54	60	99
	EC8791	18	21	13	14	86	14	15	86	20	21	94
	OIC751	20	21	14	16	80	14	16	88	21	21	95
920818106036	EC8092	21	21	15	15	99	16	16	100	22	22	100
	EC8701	21	21	17	17	99	17	17	99	17	17	99
	EC8702	21	21	14	14	99	14	14	99	20	20	99



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NOV. / DEC. EXAMINATION, 2021 - EXAMINATIONS

Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

	EC8711									60	60	99
	EC8751	22	22	16	16	98	16	16	98	16	16	98
	EC8761									60	60	100
	EC8791	21	21	14	14	98	15	15	98	21	21	100
	OIC751	21	21	16	16	100	16	16	100	21	21	100
920818106037	VENNILA A	EC8092	21	21	14	15	98	16	98	22	22	98
	EC8701	21	21	17	17	95	17	17	95	17	17	95
	EC8702	21	21	14	14	95	14	14	95	20	20	96
	EC8711									60	60	97
	EC8751	22	22	15	16	92	15	16	92	15	16	92
	EC8761									60	60	99
	EC8791	21	21	14	14	92	14	15	92	21	21	94
	OIC751	21	21	16	16	92	16	16	92	21	21	98
920818106038	VIGNESH R	EC8092	21	21	14	15	91	15	91	21	22	97
	EC8701	21	21	16	17	90	16	17	90	16	17	90
	EC8702	21	21	14	14	95	14	14	95	19	20	96
	EC8711									57	60	95
	EC8751	22	22	15	16	90	15	16	90	15	16	90
	EC8761									57	60	100
	EC8791	21	21	14	14	90	15	15	90	21	21	92
	OIC751	21	21	15	16	90	15	16	90	20	21	95
920818106039	VISHALINI B	EC8092	21	21	15	15	97	16	97	20	22	98
	EC8701	21	21	17	17	96	17	17	96	17	17	96
	EC8702	21	21	14	14	97	14	14	97	20	20	98
	EC8711									60	60	98
	EC8751	22	22	15	16	98	15	16	98	15	16	98
	EC8761									60	60	99
	EC8791	21	21	14	14	98	14	15	98	21	21	96
	OIC751	21	21	16	16	98	16	16	98	21	21	98
920818106040	VIVEKA S	EC8092	21	21	15	15	98	15	98	20	22	99
	EC8701	21	21	17	17	96	17	17	96	17	17	96
	EC8702	21	21	14	14	98	14	14	98	20	20	98
	EC8711									60	60	99
	EC8751	22	22	15	16	98	15	16	98	15	16	98
	EC8761									60	60	98
	EC8791	21	21	14	14	98	15	15	98	21	21	94
	OIC751	21	21	15	16	98	15	16	98	21	21	98
920818106302	VIGNESH S	EC8092	20	21	15	15	95	15	95	20	22	98
	EC8701	21	21	16	17	90	16	17	90	16	17	90
	EC8702	19	21	13	14	91	13	14	91	20	20	92
	EC8711									57	60	94
	EC8751	20	22	15	16	94	15	16	94	15	16	94
	EC8761									57	60	96
	EC8791	21	21	14	14	92	14	15	92	20	21	94
	OIC751	21	21	15	16	94	15	16	94	20	21	98



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Inst Code & Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

Branch Code / Name : 104 : B.E. Computer Science and Engineering University : AUC
Semester : 08

Register No.	Name of the Student	Subjects	Attend hr 1	Total hr 1	Attend hr 2	Total hr 2	IM 2	Attend hr 3	Total hr 3	IM 3	Attend hr 4	Total hr 4	IM 4
920816104001	ABIRAMI M	CS6008	13	13	21	21	86	20	21	85	21	21	0
		CS6801	13	13	18	18	84	20	22	89	20	21	0
		CS6811									178	180	99
		GE6075	9	9	18	18	80	14	14	85	22	22	0
920816104002	ARUNA DEVI P	CS6008	13	13	14	21	90	20	21	99	21	21	0
		CS6801	12	13	11	18	84	19	22	99	21	21	0
		CS6811									180	180	98
		GE6075	5	9	11	18	82	14	14	96	21	22	0
920816104003	ASHWIN SARAVANAN RC	CS6008	5	13	12	21	24	16	21	60	21	21	0
		CS6801	4	13	11	18	54	11	22	67	21	21	0
		CS6811									178	180	91
		GE6075	5	9	12	18	18	7	14	43	22	22	0
920816104004	BALAJI J	CS6008	6	13	18	21	50	19	21	76	21	21	0
		CS6801	4	13	16	18	64	20	22	60	21	21	0
		CS6811									179	180	94
		GE6075	4	9	15	18	66	14	14	75	22	22	0
920816104005	BALAJI R M	CS6008	2	13	15	21	60	14	21	83	21	21	0
		CS6801	2	13	9	18	56	13	22	40	21	21	0
		CS6811									180	180	91
		GE6075	2	9	9	18	50	8	14	53	22	22	0
920816104006	CHARUMATHY B	CS6008	8	13	10	21	68	15	21	76	21	21	0
		CS6801	8	13	9	18	78	15	22	69	21	21	0
		CS6811									180	180	97
		GE6075	6	9	9	18	66	7	14	75	22	22	0
920816104008	DIVYA A	CS6008	12	13	18	21	82	20	21	92	21	21	0
		CS6801	11	13	15	18	56	18	22	89	21	21	0
		CS6811									180	180	99
		GE6075	6	9	13	18	82	14	14	88	22	22	0
920816104009	DURGAVEI P	CS6008	10	13	15	21	92	20	21	89	20	21	0
		CS6801	10	13	15	18	76	21	22	89	21	21	0
		CS6811									180	180	98
		GE6075	7	9	13	18	84	14	14	95	21	22	0
920816104010	GOMATHI AKILA D	CS6008	13	13	21	21	68	21	21	95	21	21	0
		CS6801	13	13	18	18	86	20	22	96	21	21	0
		CS6811									180	180	98
		GE6075	9	9	12	18	70	14	14	97	22	22	0
920816104011	GURU PRASATH S	CS6008	6	13	18	21	46	18	21	80	20	21	0
		CS6801	5	13	16	18	68	19	22	84	20	21	0
		CS6811									180	180	95
		GE6075	6	9	14	18	60	10	14	88	22	22	0
920816104012	HARI VIGNESH S	CS6008	5	13	13	21	62	18	21	59	21	21	0
		CS6801	4	13	13	18	80	19	22	83	20	21	0
		CS6811									180	180	99
		GE6075	5	9	14	18	74	11	14	61	22	22	0
920816104013	ILAMATHI G	CS6008	8	13	21	21	90	15	21	88	21	21	0
		CS6801	7	13	18	18	88	20	22	63	21	21	0
		CS6811									180	180	99
		GE6075	5	9	18	18	80	11	14	93	21	22	0
920816104014	KANNAN B	CS6008	5	13	15	21	20	17	21	53	20	21	0
		CS6801	4	13	13	18	62	16	22	52	21	21	0
		CS6811									180	180	93
		GE6075	5	9	12	18	50	12	14	48	22	22	0
920816104015	KARTHIK RAJA T	CS6008	8	13	17	21	32	16	21	61	21	21	0

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	CS6801	7	13	17	18	26	19	22	39	21	21	0
	CS6811									180	180	91
920816104016	GE6075	6	9	17	18	34	11	14	35	22	22	0
	CS6008	8	13	21	21	62	17	21	77	20	21	0
	CS6801	8	13	18	18	58	20	22	53	21	21	0
	CS6811									180	180	96
920816104017	GE6075	7	9	18	18	80	14	14	89	22	22	0
	CS6008	9	13	19	21	84	21	21	99	21	21	0
	CS6801	8	13	16	18	78	20	22	95	20	21	0
	CS6811									180	180	99
920816104018	GE6075	6	9	18	18	80	14	14	96	21	22	0
	CS6008	3	13	15	21	52	15	21	57	21	21	0
	CS6801	3	13	12	18	66	14	22	56	21	21	0
	CS6811									180	180	93
920816104019	GE6075	2	9	12	18	60	9	14	41	22	22	0
	CS6008	6	13	10	21	70	18	21	93	21	21	0
	CS6801	5	13	11	18	80	18	22	61	21	21	0
	CS6811									178	180	98
920816104020	GE6075	7	9	10	18	70	10	14	95	22	22	0
	CS6008	8	13	11	21	62	17	21	56	21	21	0
	CS6801	8	13	10	18	67	18	22	55	21	21	0
	CS6811									180	180	95
920816104021	GE6075	6	9	10	18	65	9	14	57	22	22	0
	CS6008	2	13	15	21	0	17	21	84	20	21	0
	CS6801	2	13	14	18	64	21	22	77	21	21	0
	CS6811									179	180	95
920816104022	GE6075	3	9	14	18	76	11	14	68	22	22	0
	CS6008	10	13	19	21	56	19	21	95	21	21	0
	CS6801	12	13	17	18	46	16	22	77	21	21	0
	CS6811									180	180	98
920816104023	GE6075	7	9	16	18	70	10	14	81	22	22	0
	CS6008	10	13	19	21	72	20	21	93	21	21	0
	CS6801	10	13	16	18	86	19	22	91	21	21	0
	CS6811									180	180	99
920816104024	GE6075	7	9	15	18	80	11	14	97	21	22	0
	CS6008	5	13	9	21	0	21	21	56	21	21	0
	CS6801	4	13	7	18	28	18	22	41	21	21	0
	CS6811									180	180	93
920816104025	GE6075	5	9	3	18	0	11	14	33	22	22	0
	CS6008	9	13	18	21	28	18	21	77	21	21	0
	CS6801	7	13	16	18	64	20	22	55	21	21	0
	CS6811									180	180	96
920816104026	GE6075	7	9	15	18	56	12	14	61	22	22	0
	CS6008	12	13	21	21	28	21	21	64	21	21	0
	CS6801	12	13	18	18	60	22	22	60	21	21	0
	CS6811									180	180	95
920816104027	GE6075	8	9	18	18	50	14	14	73	22	22	0
	CS6008	10	13	18	21	88	19	21	99	21	21	0
	CS6801	10	13	16	18	78	19	22	84	20	21	0
	CS6811									180	180	97
920816104028	GE6075	7	9	16	18	80	13	14	96	22	22	0
	CS6008	11	13	21	21	72	21	21	93	21	21	0
	CS6801	11	13	18	18	84	20	22	85	21	21	0
	CS6811									180	180	99
920816104029	GE6075	8	9	18	18	70	14	14	93	21	22	0
	CS6008	6	13	19	21	74	15	21	96	21	21	0
	CS6801	7	13	18	18	64	18	22	47	21	21	0
	CS6811									180	180	98



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	GE6075	4	9	18	18	74	12	14	83	22	22	0
920816104030 SANTHOSH KUMAR A	CS6008	8	13	17	21	50	20	21	83	21	21	0
	CS6801	8	13	13	18	60	19	22	83	20	21	0
	CS6811									179	180	95
	GE6075	6	9	13	18	50	13	14	63	22	22	0
920816104031 SELVANAYAKI C	CS6008	13	13	21	21	96	21	21	97	20	21	0
	CS6801	13	13	18	18	92	22	22	99	21	21	0
	CS6811									180	180	99
	GE6075	9	9	18	18	84	14	14	96	22	22	0
920816104032 SENTHIL N P	CS6008	5	13	17	21	60	15	21	85	21	21	0
	CS6801	4	13	14	18	64	15	22	87	21	21	0
	CS6811									180	180	98
	GE6075	5	9	15	18	70	8	14	52	22	22	0
920816104033 SHREEDHAR V	CS6008	6	13	15	21	86	17	21	97	21	21	0
	CS6801	5	13	13	18	76	17	22	93	21	21	0
	CS6811									180	180	99
	GE6075	5	9	13	18	74	9	14	77	22	22	0
920816104034 SHRI JANANI S	CS6008	10	13	19	21	94	19	21	89	21	21	0
	CS6801	9	13	16	18	80	20	22	85	20	21	0
	CS6811									178	180	98
	GE6075	7	9	17	18	86	12	14	95	22	22	0
920816104035 SHRUTHI M	CS6008	12	13	18	21	92	20	21	97	21	21	0
	CS6801	11	13	15	18	88	22	22	97	21	21	0
	CS6811									180	180	98
	GE6075	5	9	14	18	82	14	14	97	22	22	0
920816104036 SIVASUBRAMANIAN C	CS6008	7	13	18	21	52	19	21	80	21	21	0
	CS6801	7	13	16	18	64	17	22	61	21	21	0
	CS6811									180	180	96
	GE6075	5	9	15	18	54	10	14	67	21	22	0
920816104038 SRINITHI P	CS6008	8	13	20	21	92	17	21	52	21	21	0
	CS6801	7	13	17	18	68	17	22	81	21	21	0
	CS6811									179	180	98
	GE6075	5	9	17	18	82	12	14	53	22	22	0
920816104039 SRIPRIYA P	CS6008	13	13	20	21	94	21	21	99	21	21	0
	CS6801	13	13	16	18	90	22	22	99	21	21	0
	CS6811									180	180	99
	GE6075	9	9	17	18	82	14	14	97	22	22	0
920816104040 SUNDARAM S K K	CS6008	7	13	14	21	68	17	21	81	21	21	0
	CS6801	5	13	12	18	70	17	22	65	21	21	0
	CS6811									179	180	96
	GE6075	6	9	14	18	64	11	14	81	22	22	0
920816104041 SURYA S	CS6008	3	13	20	21	62	20	21	52	21	21	0
	CS6801	3	13	16	18	60	21	22	51	21	21	0
	CS6811									179	180	96
	GE6075	2	9	16	18	76	12	14	44	22	22	0
920816104042 SWETHA A	CS6008	6	13	0	21	0	0	21	0	0	21	0
	CS6801	5	13	0	18	0	0	22	0	0	21	0
	CS6811											
	GE6075	2	9	0	18	0	0	14	0	0	22	0
920816104043 TAMILSELVAN M	CS6008	6	13	18	21	76	17	21	93	21	21	0
	CS6801	6	13	15	18	72	16	22	80	21	21	0
	CS6811									180	180	97
	GE6075	6	9	14	18	70	12	14	83	22	22	0
920816104044 YOGESH JOHN	CS6008	4	13	20	21	60	21	21	91	21	21	0
	CS6801	6	13	16	18	60	20	22	65	21	21	0
	CS6811									180	180	97
	GE6075	4	9	17	18	68	14	14	76	22	22	0
920816104301 SHARUKKHAN S	CS6008	7	13	20	21	58	19	21	87	20	21	0



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	CS6801	7	13	18	18	68	19	22	80	21	21	0
	CS6811									179	180	98
	GE6075	6	9	18	18	66	14	14	81	22	22	0
920816104701	KISHORE KUMAR D	CS6008	2	13	17	21	50	10	21	69	21	0
	CS6801	1	13	14	18	50	14	22	65	21	21	0
	CS6811									180	180	91
	GE6075	2	9	15	18	50	8	14	57	22	22	0
920816104901	NAVRIN BHAJILA A	CS6008	8	13	16	21	96	21	21	99	21	0
	CS6801	7	13	13	18	98	22	22	100	21	21	0
	CS6811									178	180	99
	GE6075	8	9	12	18	90	14	14	97	22	22	0

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 05.08.2022

CIRCULAR

The first-class committee meeting of the final year Mechanical Engineering has been planned to conduct on 11.08.2022 at 12.55 p.m. in IV MECH class room. The subject handling faculties and student representatives are informed to attend the meeting without fail.

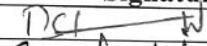



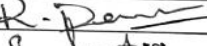

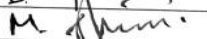


S. No	Agenda
1.	Course Information
2.	Attendance
3.	Academic Schedule, Assessments details & Internal mark distributions
4.	Course Material & Books
5.	Instruction about the Slow learners and Advanced learners
6.	Value added course
7.	Department Functions
8.	General Discipline & Other Activities

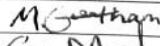
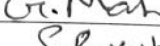
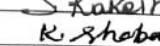
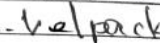


Chair Person

(Mrs. C. Kalpana, AP/CSE)


HoD-Mech

(Dr. T. Saravana Kannan)

Name	Designation	Signature
Dr.T. Saravana Kannan	HoD/MECH	
Mr. G. Sundararajan	AP/MECH	
Mr. T. Balasubramani	AP/MECH	
Mrs. K.R. Kavitha	AP/MECH	
Mr.K. Sathishkumar	AP/MECH	
Mr. R. Dheivendran	AP/MECH	
Mr. S. Latsu kumar	AP/MECH	
Mr. B. Gopi	AP/MECH	
Mr.M. Shaanmaadhuran	AP/MECH	

Name of the student	Year and Section	Signature
Mr. M. Gowthaman	IV MECH	
Ms. G. Maha Lakshmi	IV MECH	
Mr. S. Rakesh	IV MECH	
Ms. K. Shobana	IV MECH	
Mr. M. Velpackiyaraj	IV MECH	

NPRCET-MECH

Class Committee Meeting-I
2022-2023(ODD)

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 11.08.2022

Minutes of the first meeting for the even semester of the academic year 2022-2023

The first-class committee meeting for final year was conducted on 11.08.2022 in IV -Mech class room at 12.45 p.m. and the following points were discussed in the meeting

- The student's representatives, faculty members and chairperson were given a warm welcome by head of the department.

Course Information:

- A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree.

Attendance Calculation:

- The University Examination will ordinarily follow immediately after the last working day of the semester commencing from I semester as per the academic schedule prescribed from time to time.
- Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as Medical / participation in sports, the student is expected to attend at least 75% of the classes.
- A candidate who secures overall attendance between 65% and 74% in the current semester due to medical reasons / Participation in Sports events may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate / sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

- Candidates who secure less than 65% overall attendance shall not be permitted to write the University examination. They are required to repeat the incomplete semester in the next academic year.
- Student cumulative attendance will be displayed in department notice-board.

Academic Schedule, Assessments details & Internal mark distributions

- HOD explained the student representatives, about the academic assessment schedule, weight age and academic calendar of department.
- HOD Informed the student representatives about practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.

Course Material & Books:

- Students have been informed about the test book of respective courses and course material will be issued by department.
- Students are informed to bring individual calculator and separate note for respective subjects.
- Students have been informed about the test book for individual students issued by general library.

Classify the Slow learners and advanced learners:

- Head of the Department informed the subject handling faculties and student representatives that based on the internal test result students are identified as slow learners & fast learners.
- Those are getting below 60 marks in the internal exam in each subject those are considered as slow learners.
- Whose are getting above 60 marks in the internal exam in each subject those are considered as advanced learners.
- The remedial classes will be arranged for slow learners in the evening from 4.30 p.m to 6 p.m.

Value added course:-

- It was informed the students about the commencement of value-added courses in several titles.

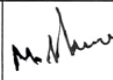
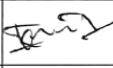
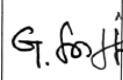

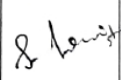
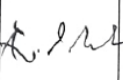
Department Functions:


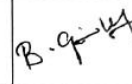

- An alumni interaction is planned and to be conducted on 30.08.2022

General Discipline & Other Activities:

- Students are advised to come to the college regularly and follow proper dress code.
- Students have been informed to participate in technical contest that will be conducted by department.
- Students have been informed to participate in the co-curricular and extra-curricular activities conducted by the institution.

FEEDBACK FROM STUDENTS:

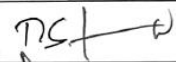

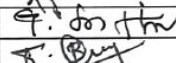

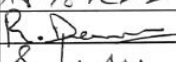
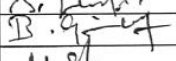
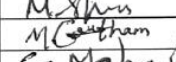
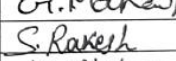
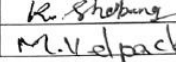


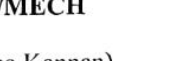
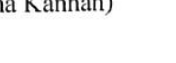


S. No.	Subject Code	Subject Name	Name of the Faculty	Desg /Dept	Syllabus Completion	Feedback from Students	Remedial measures to be taken by the faculty	Signature of the faculty
1.	ME8792	Power Plant Engineering	Mr.M. Shaanmaadhuran	AP/ Mech	1 st Unit in progress	No issues	-	
2.	ME8791	Mechatronics	Mrs. K. R. Kavitha	AP/ Mech	1 st Unit in progress	No issues	-	
3.	ME8793	Process Planning and Cost Estimation	Mr. G. Sundararajan	AP/ Mech	1 st Unit in progress	Good	-	
4.	OEI751	Robotics	Mr. T. Balasubramani	AP/ Mech	1 st Unit in progress	Need Important Questions	Given to the Students	
5.	ME8097	Non Destructive Testing and Materials	Mr. S. Latsu Kumar	AP/ Mech	1 st Unit in progress	No issues	-	
6.	ME8073	Unconventional Machining Process	Mr. K. Sathish Kumar	AP/ Mech	1 st Unit in progress	No issues	-	

7.	ME8711	Simulation and Analysis Laboratory	Mr. T. Balasubramani	AP/ Mech	Introduction classes over	No issues	-	
8.	ME8781	Mechatronics Laboratory	Mr. B. Gopi	AP/ Mech	2 Experiments completed	No issues	-	
9.	ME8712	Technical Seminar	Mr. R. Dheivendran	HoD/ Mech	Introduction classes over	No issue	-	

GRIEVANCES/SUGGESTIONS FROM STUDENTS:

1. Need programming classes as well as training required to attend the interview specifically for Mechanical core companies in the placement training classes.
2. Value added courses required in relevant to the recent technologies
3. Need to go for Industrial visit/ Internship

Members Present:

S. No	Members	Name of the Faculty	Designation/ Department	Signature
1.	Head of the Department	Dr.T. Saravana Kannan	HoD/Mech	
2.	Chairperson	Mrs. C. Kalpana	AP/CSE	
3.	Faculty Members handling the Subjects	Mr. G. Sundararajan	AP/Mech	
		Mr. T. Balasubramani	AP/Mech	
		Mrs. K.R. Kavitha	AP/Mech	
		Mr.K. Sathishkumar	AP/Mech	
		Mr. R. Dheivendran	AP/Mech	
		Mr. S. Latsu kumar	AP/Mech	
		Mr. B. Gopi	AP/Mech	
		Mr.M. Shaanmaadhuran	AP/Mech	
4.	Student Representatives	Mr. M. Gowthaman	IV Mech	
		Ms. G. Maha Lakshmi	IV Mech	
		Mr. S. Rakesh	IV Mech	
		Ms. K. Shobana	IV Mech	
		Mr. M. Velpackiyaraj	IV Mech	


Chairperson

(Mrs. C. Kalpana, AP/CSE)


HoD/MECH

(Dr.T.Saravana Kannan)



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 12.08.2022

ACTION TAKEN REPORT: CLASS COMMITTEE MEETING-I

CLASS COMMITTEE MEETING-I		ACADEMIC YEAR-2022-2023	
Class: IV MECH	Date: 11.08.2022	Time: 12.45 PM	Venue : IV MECH Class Room

S.No	SUGGESTIONS	CORRECTIVE ACTION
1.	Training required to attend the interview in the Mechanical core companies	Information given to the placement department placement training programme will be arranged
2.	Value added courses required in relevant to the recent technologies	Consulted with resource person
3.	Need to go for Industrial visit/Internship	HoD assured to arrange the Industrial Visit
4.	Important questions asked for Robotics Subject	Given to the students


Chairperson

(Mrs. C. Kalpana, AP/CSE)


HoD/MECH

(Dr.T.Saravana Kannan)

NPRCET-MECH

Class Committee Meeting-I
2022-2023(ODD)



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Class Committee Meeting - Action taken Proof

Industrial Visit to Tractors and Farm Equipment Limited

Photo Gallery



IV-Mech Students for Industrial Vist at TAFE, Madurai



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JM Frictech India Pvt Ltd (JMI)
G27, SIPCOT Industrial Park,
Katrambakkam Village, Irungattukottai,
Chennai-Nadu 602105

Date: 04/02/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms.Maha Lakshmi G studying IV year BE Mechanical Engineering in NPR College of Engineering & Technology, Natham, Dindigul, has successfully completed Fourteen days internship from 17/01/2023 to 31/01/2023 in our company. During the period the training period he was has been extremely inquisitive and hard working. He summed to be writing to learn the functions/process with kwon interest.

We wish him every success in life.

JM Frictech India Pvt. Ltd,
G-27, SIPCOT Industrial Park,
Irungattukottai,
Chennai-602 105.

G27, SIPCOT Industrial Park, Katrambakkam Village, Irungattukottai, Chennai-Nadu 602105

E-mail: geslamp@gmail.com website : <http://www.jmil.in>



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JM Fricttech India Pvt Ltd (JMI)
G27, SIPCOT Industrial Park,
Katrambakkam Village, Irungattukottai,
Chennai-Nadu 602105

Date: 04/02/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.Raghulpandian B studying IV year BE Mechanical Engineering in NPR College of Engineering & Technology, Natham, Dindigul, has successfully completed Fourteen days internship from 17/01/2023 to 31/01/2023 in our company. During the period the training period he was has been extremely inquisitive and hard working. He summed to be writing to learn the functions/process with kwon interest.

We wish him every success in life.

JM Fricttech India Pvt. Ltd,
G-27, SIPCOT Industrial Park,
Irungattukottai,
Chennai-602 105.

G27, SIPCOT Industrial Park, Katrambakkam Village, Irungattukottai, Chennai-Nadu 602105

E-mail: gestamp@gmail.com website : <http://www.jmi.in>



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G27, SIPCOT Industrial Park,
Katrambakkam Village, Irungattukottai,
Chennai-Nadu 602105

Date: 04/02/2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms.Shobana K studying IV year BE Mechanical Engineering in NPR College of Engineering & Technology, Natham, Dindigul, has successfully completed Fourteen days internship from 17/01/2023 to 31/01/2023 in our company. During the period the training period he was has been extremely inquisitive and hard working. He summed to be writing to learn the functions/process with kwon interest.

We wish him every success in life.

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Web : oshobodybuilders.in
E-mail : osho.oshos@gmail.com
Ph : 0452 - 6562250

Cell : 98425 - 32220
98430 - 83074



ARAI ACCREDITED &
ISO CERTIFIED COMPANY

TIN No : 33915023027

Plot No.32, (S.V.D Nagar)
Rajappa Nagar,
Kovil Pappakudi (Po)
MADURAI - 625 018

Date: 30.01.2023

TO WHOM IT MAY CONCERN

This to certify that **Mr. Iman Mohammed.T** a student of BE (Mechanical Engineering – Final Year) NPR College of Engineering and Technology, Natham, Dindigul, India has successfully completed In-Plant Training (**23.01.2023 to 28.01.2023**) at Osho Body builders, Madurai. During the period of his In-Plant Training with us, he was found punctual, Hardworking and inquisitive.

We wish him every success in life.

For Osho Body Builders

R. Anandakumar
Partner

ELEGANCE IN SHAPE AND EXCELLENCE IN QUALITY IS OUR WATCH WORD



Web : oshobodybuilders.in
E mail : osho.osho5@gmail.com
Ph : 0452 - 6562250

Cell : 98425 - 32220
98430 - 83074



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TIN No. 33915023027

Plot No 32, (S V D Nagar)
Rajappa Nagar,
Kovil Pappakudi (Po)
MADURAI - 625 018

Date: 30.01.2023

TO WHOM IT MAY CONCERN

This to certify that **Mr. Ruban P** a student of BE (Mechanical Engineering – Final Year) NPR College of Engineering and Technology, Natham, Dindigul, India has successfully completed In-Plant Training (23.01.2023 to 28.01.2023) at Osho Body builders, Madurai. During the period of his In-Plant Training with us, he was found punctual, Hardworking and inquisitive.

We wish him every success in life.

For Osho Body Builders
R. Anandharaj
Partner

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OIE751- ROBOTICS - QUESTION BANK

UNIT 1 - FUNDAMENTALS OF ROBOT

TWO MARK QUESTIONS

1. Define robot (Nov/Dec 2011)
2. Define base and tool coordinate systems. (Nov/Dec-2012)
3. Name the important specifications of an industrial robot. (Nov/Dec-2012)
4. What is meant by pitch, yaw and roll? (Nov/Dec-2008)
5. What is work volume? (Nov/Dec-2008), (Nov/Dec 2011)
6. What is meant by a work envelope? (Nov/Dec-2007), (Apr/May-2010), (May/Jun 2013)
7. Sketch a robot and name its parts. (Nov/Dec-2007)
8. What are the four basic robot configuration available commercially? (Apr/May-2010)
9. Classify the robot as per the type of control and mobility (May/Jun 2013)

16 MARK QUESTIONS

1. (i) Explain the speed of motion in industrial robots. (8)(Apr/May 2010)
(ii) Explain the load- carrying capacity of a robot.(8) (Apr/May 2010)
2. (i) With a neat sketch explain the three degrees of freedom associated with the robot wrist. (10) (Apr/May 2010) (ii) Discuss the four types robot controls.(6) (Apr/May 2010)
3. (i) Classify the industrial robots and briefly describe it.(8)
(ii) Describe the major elements of an industrial robot.(8) (Nov/Dec-2012)
4. (i) Describe in detail the anatomy of an industrial robot(8)(16) (May/Jun 2013)
(ii) Describe the industrial application of robots.(8) (Nov/Dec-2012)
5. Describe the specifications of an industrial robot and with its configuration.(16) (May/Jun 2013)
6. (i) Sketch a robot wrist and explain it's the joint movements.(8) (Nov/Dec 2007)
(ii) Briefly explain the need for robots in industries.(8) (Nov/Dec 2007)
7. Classify the robots according to the coordinates of motion. with a sketch and example, explain the features of each type.(12+4) (Nov/Dec 2007)
8. Explain the various parts of a robot with neat sketch. (Nov/Dec 2008)
9. (i) Explain the different types of robots(8) (Nov/Dec 2008)
(ii) What are the specifications of robots?(8) (Nov/Dec 2008)
10. (a) Sketch and explain the following configuration of robot.
(i)

UNIT 2 ROBOT DRIVE SYSTEM AND END EFFECTORS

TWO MARK QUESTIONS

1. Which type of drive system is more suitable for heavy load robot application? (Nov/Dec-2012)
2. What is end effector? Classify. (Nov/Dec-2012) (May/Jun 2013)
3. Compare pneumatic drive robots with stepper motor drive robots. (Nov/Dec-2008)
4. What is the difference between internal grippers and external grippers? (Nov/Dec-2008)
5. Classify robots according to the drive system. (Nov/Dec-2007)
6. List any TWO important advantages and disadvantages of a pneumatic gripper. (Nov/Dec-2007)
7. What is a mechanical gripper? (May/apr 2010)
8. How will sensor evaluated? (May/Jun 2013)
10. Give some examples of tool as robot end effector. (Nov/Dec 2011)
11. What are the types of hydraulic actuators? (Nov/Dec 2011)
12. What are the properties of stepper motor? (May/apr 2010)

16 MARK QUESTIONS

1. Discuss about the salient features of stepper and servo motor with limitations. (Nov/Dec-2012)
2. Describe the types of end effector & gripper mechanisms with simple sketches. (Nov/Dec-2012) (May/Jun 2013) (Nov/Dec 2008)
3. (i) Discuss the types of drive systems used in robots. (12)
(ii) discuss any one of the types of gripper mechanism. (4) (Apr/May 2010)
4. (i) discuss about magnetic and vacuum grippers. (8)
(ii) explain the working of DC servo motors used in robotics. (8) (Apr/May 2010)
5. Explain the different types of electrical drives used in robot actuation. (Nov/Dec 2008)
6. (i) with neat sketch, explain the working of a stepper motor. (8) (Nov/Dec 2007)
(ii) with suitable illustration explain working on external and internal grippers. (8) (Nov/Dec 2007)
7. With neat sketch explain any five types of mechanical grippers (Nov/Dec 2007)
8. Discuss about the salient features of different drive systems used in robots. (May/Jun 2013)
9. Discuss the performance characteristics of actuators. Compare electrical, pneumatic & hydraulic actuators for their characteristics. (Nov/Dec 2011)
10. Discuss in detail the selection and design considerations of grippers in robot. (Nov/Dec 2011)

UNIT-3 SENSORS AND MACHINE VISION

TWO MARK QUESTIONS

1. Differentiate between the sensor & transducer. (Nov/Dec-2012)
2. Name any two algorithms for image enhancement application. (Nov/Dec-2012)
3. Briefly explain the function of a piezoelectric sensor. (May/Jun 2013)
4. What is image analysis? (May/Jun 2013)
5. What is triangulation? (Apr/May 2010)
6. What is smoothing in vision system? (Apr/May 2010)
7. What is LVDT? (Nov/Dec 2008)
8. What is meant by segmentation in image analysis? (Nov/Dec 2008)
9. What is function frame grabber? (Nov/Dec 2007)
10. State the working principle of the touch sensor? (Nov/Dec 2007)
11. Name some feedback devices used in robotics. (Nov/Dec 2011)
12. What are the application of machine vision system? (Nov/Dec 2011)

16 MARK QUESTIONS

1. Explain the principal of sensing. Describe force sensing with strain gauge and wrist force sensor. (Nov/Dec 2011)
2. Explain machine vision system with a sketch. Give practical examples of its applications. (Nov/Dec 2007) (Nov/Dec 2011) (May/Jun 2013)
3. (i) With suitable sketch and an application example, explain the principle of working of the following sensors:
 - (a) Inductive proximity sensor
 - (b) Slip sensor. (8) (Nov/Dec 2007)
- (ii) Write a note on the applications of a machine vision system. (8) (Nov/Dec 2007)
4. Explain the segmentation methods used in vision system with suitable example. (Apr/May 2010)
5. (i) Describe the construction, working and application of incremental encoder. (8)
(ii) Explain the two object recognition techniques used in industries. (8) (Apr/May 2010)
6. Explain the principle of the following sensors and also mention how they are used in robots.
 - (i) Piezo electric sensor
 - (ii) Inductive proximity sensor
 - (iii) Touch sensor
 - (iv) Slip sensor (4 x 4) (Nov/Dec 2008)
7. Describe the classification of sensors and the factors to be considered for its selection. (May/Jun 2013)

UNIT 4 ROBOT KINEMATICS AND ROBOT PROGRAMMING

TWO MARK QUESTIONS

1. List the different robot parameters. (Nov/Dec-2012)
2. What are the limitations of on-line robot programming? (Nov/Dec-2012)
3. What is inverse kinematics? (May/Jun 2013)
4. Write down the basic types of robot programming. (May/Jun 2013)
5. Determine the translated vector for the given vector $v=25i+10j+20k$, perform a translation by a distance of 8 units in "X" direction, 5 units in "Y" direction and 0 units in "Z" direction. (Apr/May 2010)
6. Write the meaning of the following command D MOVE (1,10), D MOVE (<4,5,6>,<30,-45,90>)(Apr/May 2010)
7. What are the motion commands available in VAL programming? (Nov/Dec 2008)
8. What is meant by Inverse kinematics of robots? (Nov/Dec 2008)
9. What is meant by a teach pendant? (Nov/Dec 2007) (Nov/Dec 2011)
10. Explain any two commands associated with the programming of end effectors. (Nov/Dec 2007)
11. Define reverse kinematics. (Nov/Dec 2011)

16 MARK QUESTIONS

1. Write a VAL robot program to perform pick and place operation on the conveyer system. it consist of two conveyors running parallel with centre distance of 600 mm at same level. An industrial robot is fixed centrally between the conveyors. The robot is used to transfer work pieces from conveyor 1 to 2 at a constant speed. Draw a schematic view of the system .assume all necessary dimension. (May/Jun 2013) . (Nov/Dec 2012)
2. (i) Consider two frames {A}&{B}.The frame {B} is rotated with respect to frame{A} by 30 degree. around z-axis and the origin of{B} is shifted with respect to the origin of{A} by[5,10,5].the Z a and Z b axes are parallel point 'p' is described in {B} by 1,2,3).
3. Describe briefly the kinematics and dynamics of a robot. . (Nov/Dec 2012)
4. (i) Explain the manual lead through programming in robot application.(6)
(ii) Write about end effectors command & sensor command.(10) (Apr/May 2010)
5. Derive forward & inverse kinematics equations of manipulator for a particular position. (Nov/Dec 2008)
6. (i) write short notes on teach pendant.(8)
(ii) Explain the various features robot programming languages.(8) (Nov/Dec 2012)
7. Using VAL language, discuss the basic commands and explain the structure of the program for a typical pick and place operation. (Nov/Dec 2007)
8. (i) Write a critical note on forward and inverse kinematics of a 3 degrees of freedom: robot(10)

UNIT 5 IMPLEMENTATION & ROBOTS ECONOMICS

TWO MARK QUESTIONS

1. List out the few robot applications area in manufacturing. (May/Jun 2013) (Nov/Dec 2008) (Nov/Dec 2011)
2. What are the functions of work cell controller? (May/Jun 2013)
3. How an AVG will differ with Robot? (Nov/Dec-2012)
4. List few safety precautions necessary for robotic application. (Nov/Dec-2012) (Nov/Dec 2007) (Nov/Dec 2011)
5. What are the three levels of safety sensor systems in robotics defined by National Bureau of Standards? (Apr/May 2010)
6. What is AGV? (Nov/Dec 2008)
7. How do you calculate the robot economics by rate of investment method? (Nov/Dec 2007)
8. Function of robots in a Computer Integrated Manufacturing environment. (Nov/Dec 2011)

16 MARK QUESTIONS

1. Discuss in detail various methods available for the analysis of robot economics. (Nov/Dec 2008)
2. Write a critical note on the steps that a company should follow during implementing robotics. (Nov/Dec 2007) (may/june2013)
3. (i) write a note on AGV.(8)
(ii) Explain the features of safety sensors & safety monitoring of robots.(8)
4. (i) explain the different safety considerations for robot operations.(8) (Apr/May 2010) (Nov/Dec 2007)
(ii) Explain about robot welding.(8) (Nov/Dec 2008)
5. (i) explain the working of automated guided vehicles with
(a) Component –based DCS
(b) Design with field bus technology.(10) (Apr/May 2010)
(ii) Explain the design consideration for workplace safety.(6) (Apr/May 2010)
6. Write short note on Equivalent Uniform Annual cost and rate of return methods. (may/june2013)
7. Discuss about the implementation issues of robots in an assembly environment. (Nov/Dec 2012)
8. Illustrate the economics of robot implementation with help of pay back method(Nov/Dec 2012)

EVALUATION PROCESS OF UNIVERSITY REVALUATION PREVIEW FORM



ANNA UNIVERSITY
CHENNAI - 600 025
APPLICATION FOR PHOTOCOPY
APRIL / MAY EXAMINATION, 2022

PC

INSTRUCTION TO CANDIDATES

1. Fee for obtaining Photocopy is Rs.300/- per answer script and shall be paid at the College only.
2. Application for Photocopy of answer scripts must be submitted to the Principal of the concerned College on or before 26-09-2022
3. The candidate is advised to register for the subject, in which Photocopy is sought for within the stipulated time for the next examination without waiting for the supply of Photocopy/results of Revaluation.
4. There is no provision for Photocopy of Practical/Project examination Papers.
5. Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.
6. No application will be accepted beyond the due date prescribed.
7. The Head of the Department should ensure while recommending application that the subject code and the subject(s) filled in the respective columns by the candidate are verified and found to be correct.

1. Name	ASMA ROSHAN T
2. Register Number	920819106007
3. College Code / Name	9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY
4. Degree & Branch	B.E. Electronics and Communication Engineering
5. Month & Year of Examination	MAY 2022
6. No. of Subjects applied for Photocopy	1
7. Amount of fee paid to the College	Rs. 300

8. Subjects for which photocopies of valued answers scripts required:

Semester No.	Subject Code	Subject Title	Grade	Result
06	EC8095	Visi design	B	PASS

9. Recommendations of the HOD

[Signature]
Signature of the HOD

[Signature]
Signature of the Candidate

Station : *Natham*

Date : *27.10.2022*



[Signature]
Signature of the Principal



ANNA UNIVERSITY
CHENNAI - 600 025
APPLICATION FOR REVALUATION
APRIL / MAY EXAMINATION, 2022

R

INSTRUCTION TO CANDIDATES

1. Fee for Revaluation is Rs.400/- per answer script and should be paid at the College only.
2. Application for Revaluation must be submitted to the Principal of the concerned College on or before 27-10-2022
3. The candidate is advised to register for the subject, in which Revaluation is sought for within the stipulated time for the next examination without waiting for the results of Revaluation.
4. There is no provision for Revaluation of Practical/Project examination Papers.
5. Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.
6. No application will be accepted beyond the due date prescribed.
7. The Head of the Department should ensure while recommending the application that the subject code and the subject(s) filled in the respective columns by the candidate are verified and found to be correct.

1. Name	ASMA ROSHAN T
2. Register Number	920819106007
3. College Code / Name	9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY
4. Degree & Branch	B.E. Electronics and Communication Engineering
5. Month & Year of Examination	MAY 2022
6. No. of Subjects applied for Revaluation	1
7. Amount of fee paid to the College	Rs. 400

8. Subjects for which revaluation of valued answers scripts required:

Semester No.	Subject Code	Subject Title (Staff Code)	Grade	Result
06	EC8095	VLSI Design (9208363)	B	PASS

9. Recommendations of the HOD

Asma Roshan T
Signature of the HOD

Asma Roshan T
Signature of the Candidate

Station: *Natham*

Date: *27.10.22*



[Signature]
Signature of the Principal

REVALUATION PHOTO COPY

ANNA UNIVERSITY :: CHENNAI - 600025. OFFICE OF THE CONTROLLER OF EXAMINATIONS Provisional Results of April / May Examination, 2022 (Reval/Photo).							
Page 4/4							
Inst.Code/Name : 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY Semester No. : 06 DATE OF PUBLICATION : DD-MM-YYYY							
Branch : 106-B.E. Electronics and Communication Engineering							
Reg. Number	Student Name	EC8004 Grade	EC8005 Grade	EC8051 Grade	EC8652 Grade	EC8691 Grade	MC8591 Grade
920819106003	AJITH KUMAR K		NC	NC		NC	
920819106005	ARAVINTH RAJ K			NC			
920819106007	ASMA ROSHAN T		B				
920819106010	BLESSY JEBAMANI G					NC	
920819106011	CHRISTINA I					B+	
920819106015	DHINESH M	NC		B	NC		
920819106016	DIVESH V					NC	
920819106017	DIVYA DHARSHINI S				NC	B	NC
920819106020	JOSEPHRAJASILT R		NC			B	
920819106022	KAMALESH K				NC		
920819106025	KIRTHICK N	NC			B		
920819106026	MADHUMITHA P	NC				B	
920819106030	MANOJ KUMAR S	NC			NC		
920819106031	MOHAMED ASIF M	B			NC		
920819106032	MOHAMEDIBRAHIM J		B				
920819106035	MURUGANATHAN M					NC	NC
920819106036	MUTHU MOORTHY M	B	B				
920819106037	MUTHU RANJANI V		B+				
920819106039	NAGA VISHWA G	B					
920819106044	POYSKA DEVI K	B		NC			
920819106045	PRABHU C					NC	
920819106048	RAMVIGNHESH R P	B	NC		NC	NC	
920819106052	SANO NISHA N	NC				NC	
920819106053	SARAN G V	NC					
920819106054	SASMITHA PARVEEN K	NC	B				
920819106055	SHAM HRUTHIK R	NC	B	NC	B		
920819106058	SHINY RESHMA J		B				
920819106059	SINGARABRINDHA N		NC				
920819106061	SOUNDHARYA S					NC	
920819106063	THAMBI DURAI P K		B				
920819106064	THARSHITHA S					B	
920819106065	THARUNKUMAR M				NC		
920819106067	VENKATESH P			B		NC	
920819106068	VIKRAM S			B		NC	
920819106302	SHABIRATAJ J	NC	NC				

W - Withdrawal I - Inadequate Attendance

WH1 - Withheld for Suspected Malpractice WH(others) - Withheld for want of Clarification, approval, etc.

28-03-2023

Anna University - COE



MARK SHEET NAME CORRECTION

Key: QACHIY
Sr. No: 65178

1 2 1 0 2 0 2 0
D D M M Y Y Y Y

मांगद्राफ्ट
DEMAND DRAFT

जारी करने वाला बैंक
State Bank of India
Issuing Branch: NATHAM
कोड क्र. / CODE No: 11066
Tel No. 04544-245246

या उनके आदेश पर
OR ORDER

मांगे जानेपर THE CONTROLLER OF EXAMINATIONS ANNA UNIVERSITY CHENNAI*****

ON DEMAND PAY
रुपये RUPEES Two Thousand One Hundred Only

अदा करें ₹ 2100.00

AMOUNT BELOW 2101(2/4) मूल्य प्राप्त / VALUE RECEIVED

IOI 000514495570 Key: QACHIY Sr. No: 65178
Name of Applicant G SUDHARSANAM

भारतीय स्टेट बैंक
STATE BANK OF INDIA
अदाकर्ता शाखा / DRAWEE BRANCH: CHENNAI MAIN BRANCH
कोड क्र. / CODE No: 00800

प्राधिकृत हस्ताक्षरकर्ता
AUTHORIZED SIGNATORY
प्राप्त प्रबंधक
BRANCH MANAGER

कम्प्यूटर द्वारा मुद्रित होने पर ही वैध
VALID ONLY IF COMPUTER PRINTED

केवल 3 महीने के लिए वैध
VALID FOR 3 MONTHS ONLY

PRINCE ISRAEL J
P-9234

114955701 0000020001 0005141 16





NPR

College of Engineering & Technology

Approved by AICTE, Affiliated to Anna University,
Accredited by NAAC WITH 'A' GRADE | Recognized by UGC under 2 (f)
Natham, Dindigul - 624 401. Web: www.nprcet.org



	ANNA UNIVERSITY CHENNAI 600 025			Off:	22301632, 22357244	
	Office of the Controller of Examinations				22357295, 22357296	
				Fax:	22357286, 22357287	
				E-mail:	91-44-22301134 coe@annauniv.edu	

Lr. No. 9208/COE/C36 /20.20 - 21129

Date: 12.11.2020

From

The Controller of Examinations,
Anna University,
Chennai - 600 025.

To

The Principal,
9208 - NPR College of
Engg. & Tech.,

Sir,

Sub: Office of the Controller of Examinations - Anna University - Chennai - 25
Correction in name in the Grade Sheet - Sent - Reg.

Ref: Your Lr. NO. 08/NPRCET/EXAM/OCT-2020,
dt: 14/10/2020. *****

With reference to the letter cited, the
in respect of the following student(s) after making necessary correction in his/her name is/are
enclosed and the same may be arranged to be issued to the student(s) concerned.

Sl. No.	Reg. No.	Name	Course & Branch	Sem.	Month and year of Exam	Folio No. & Date
1.	920816104009	DURGA DEVI. P	BE/ CSE	I II III IV V VI VII	NOV '2016 APR '2017 NOV '2017 APR '2018 NOV '2018 APR '2019 NOV '2019	AUV1587014/NC AUV1578674/NC AUT1431281/NC AUS1535797/NC AUR1283585/NC AUG1360189/NC AUP1369893/NC 3/11/20

Yours faithfully,

for CONTROLLER OF EXAMINATIONS

Encl.: 7 No(s) of Grade Sheet

8/12/11/20



சான்றிதழ் வ.எண்
Certificate Sl. No. SEC

3406299



அரசுத் தேர்வுகள் துறை, சென்னை - 600006
DEPARTMENT OF GOVERNMENT EXAMINATIONS, CHENNAI - 600006

இடைநிலைப் பள்ளி இறுதி வகுப்புச் சான்றிதழ் SECONDARY SCHOOL LEAVING CERTIFICATE

புதிய பாடத்திட்டம் / NEW SYLLABUS

பத்தாம் வகுப்பு / X STANDARD

தமிழ்நாடு அரசின் அதிகாரத்திற்கு உட்பட்டு வழங்கப்படுகிறது
ISSUED UNDER THE AUTHORITY OF THE GOVERNMENT OF TAMILNADU



தேர்வர் **DURGA DEVI P**

MAR 2014 இல் இடைநிலைப்

பள்ளி இறுதி வகுப்புச் சான்றிதழ் பொதுத் தேர்வெழுதிக் கீழ்க்காணும் மதிப்பெண்களைப் பெற்றுள்ளார் என்று
சான்றளிக்கப்படுகிறது.

Certified that the above mentioned candidate appeared for the Secondary School Leaving Certificate
Public Examination and obtained the following marks :

பாடம் SUBJECT	பெரும் அளவு மதிப்பெண்கள் MAX. MARKS	பெற்ற மதிப்பெண்கள் MARKS OBTAINED
தமிழ் TAMIL	100	092 ZERO NINE TWO (P)
ஆங்கிலம் ENGLISH	100	096 ZERO NINE SIX (P)
கணிதம் MATHEMATICS	100	097 ZERO NINE SEVEN (P)
அறிவியல்* SCIENCE*	075	100 ONE ZERO ZERO (P)
செய்முறை PRACTICAL	025	
சமூக அறிவியல் SOCIAL SCIENCE	100	097 ZERO NINE SEVEN (P)
மொத்தம் TOTAL	500	482 FOUR EIGHT TWO (PASS)

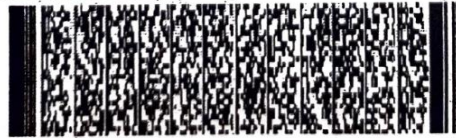
பிறந்த தேதி / DATE OF BIRTH
09.06.99

பதிவெண்/REGISTER NO.
1612637

ம.அ.ப.குறியீட்டெண் & நாள் / TMR CODE NO. & DATE
C1200551 23.05.2014

பயிற்று மொழி / MEDIUM OF INSTRUCTION
ENGLISH

பள்ளியின் பெயர் / NAME OF THE SCHOOL
(19\0542) CATHY MHSS MADURAI



மாநிலப் பரீட்சைத் தேர்வுகள் துறை, திருச்சி, தமிழ்நாடு
STATE BOARD OF SCHOOL EXAMINATIONS, TIRUCHI, TAMILNADU



NPR

College of Engineering & Technology

Approved by AICTE, Affiliated to Anna University,
Accredited by NAAC WITH 'A' GRADE | Recognized by UGC under 2 (f)
Natham, Dindigul - 624 401. Web: www.nprcet.org



NPR COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University - CHENNAI)

NPR Nagar, Natham, Dindigul - 624 401. Tamilnadu.

Ph : 04544 - 248500, 501, 502

Website : www.nprcet.org, www.nprcolleges.org E-mail : nprgl@nprcolleges.org

Ref. : NPRCET :

Prof. Dr. J.SUNDARARAJAN, M.Tech, Ph.D
PRINCIPAL

Letter No. 08/ NPRCET/ EXAM/Oct - 2020

Date: 14.10.2020

To

The Controller of Examinations,
Anna University,
Chennai - 600 025

Madam / Sir,

Sub: Correction of student Name in Anna University Grade Sheets -Reg.

Herewith ,we have mentioned below the student name **DURGA DEVI P (Register No : 920816104009)** details for correction of Name for all the grade sheets from 1st to VIIth Semester along with the Demand Draft and other necessary documents for you kind perusal. Please kindly do the needful.

S.No	Register Number	Name of the student in grade sheets	Name of the student in grade sheets has to change
1	920816104009	DURGADEVI P	DURGA DEVI P
Total Amount DD taken (Rupees One Thousand Only) in favour of Controller of Examinations, Anna University, Chennai.			₹.2100
DD No : 495570			Dated 12.10.2020 at State Bank of India , Natham.

Thanking you.

With regards,

Encl.

1. Demand Draft - 1 No.
2. Xerox copy of SSLC Mark Sheet.
3. Xerox copy of HSC Mark Sheet.
4. University Grade sheets (I to VII)



Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.,
Principal

N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.

Administrative Office : No.20, Thiruvalluvar Salai, Dindigul - 624 003. Ph : 0451-2430850, 03 44 44 44 44



ANNA UNIVERSITY, CHENNAI - 25
B.E. DEGREE EXAMINATIONS
GRADE SHEET



Sl.No: **MA 1590400**

Folio No. **AUV1587014**

NAME OF THE CANDIDATE	DURGADEVI P			REGISTER NO.	220616104088
DATE OF BIRTH	08 JULY 93	GENDER	FEMALE	MONTH & YEAR OF EXAMINATION	NOV 2016
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY			DATE OF PUBLICATION	04 FEB 17
PROGRAMME & BRANCH	B.E. Computer Science and Engineering			REGULATIONS	2013

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
01	CY6151	Engineering Chemistry - I	3	D	6	PASS
01	GE6151	Computer Programming	3	D	6	PASS
01	GE6152	Engineering Graphics	4	E	5	PASS
01	GE6161	Computer Practices Laboratory	2	A	9	PASS
01	GE6162	Engineering Practices Laboratory	2	A	9	PASS
01	GE6163	Physics and Chemistry Laboratory - I	1	B	8	PASS
01	HS6151	Technical English - I	4	C	7	PASS
01	MA6151	Mathematics - I	4	D	6	PASS
01	PH6151	Engineering Physics - I	3	E	5	PASS

*** End of Statement ***

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered	26									
Credits Earned	26									
Grade Points Earned	61									
Grade Point Average (GPA)	6.423									
Cumulative Credits Earned	26	Cumulative Grade Point Average (CGPA)				6.42	Medium of Instruction : ENGLISH			

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination



10-05-17

SIGNATURE OF THE CANDIDATE



[Signature]

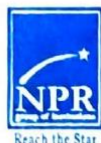
CONTROLLER OF EXAMINATIONS



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Natham, Dindigul - 624 401. Web: www.nprcet.org



NPR COLLEGE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Anna University - CHENNAI)

NPR Nagar, Natham, Dindigul - 624 401. Tamilnadu.

Ph : 04544 - 246500, 501, 502

Website : www.nprcet.org, www.nprcolleges.org E-mail : nprgi@nprcolleges.org

Ref. : NPRCET/

Letter No. 15/ NPRCET/ EXAM/ 2021-22

Date: 27.12.2021

Prof. Dr. J.SUNDARARAJAN, M.Tech, Ph.D
PRINCIPAL

To

The Controller of Examinations,
Anna University,
Chennai – 600 025

Madam / Sir,

Sub: Correction of student Name in Anna University Grade Sheets –Reg.

Herewith, we have mentioned below the student details for correction of Name for all the grade sheets from I to VIII Semester, Consolidated Statement of Grades, and Provisional Certificate along with the Demand Draft and other necessary documents for your kind perusal. Please kindly do the needful.

S.No	Register Number	Name of the student in grade sheets, Consolidated and Provisional	Name of the student in grade sheets has to change
1	920817114049	MURALIMANOKARAN V	MURALI MANOGARAN V
Total Amount DD taken (Rupees Four Thousand four hundred Only) in favour of Controller of Examinations, Anna University, Chennai.			Rs. 4400
1. DD No :826359 For Rs. 4100 dated 01.12.2021 at City Union Bank, Vadamadurai. 2. DD No :508909 For Rs. 300 dated 06.12.2021 at City Union Bank, Koodalnagar, Madurai.			

Thanking you.

With regards

Encl.

1. Demand Draft – 2 No.
2. Xerox copy of SSLC Mark Sheet.
3. Xerox copy of HSC Mark Sheet.
4. University Grade sheets (I to VIII)
5. Consolidated statement of Grades sheet.
6. Provisional Certificates.



Dr. J.SUNDARARAJAN,
B.E., M.Tech., Ph.D.
Principal
N.P.R. College of Engineering & Technology
Natham, Dindigul (Dt) - 624 401.



சான்றிதழ் வகை
Certificate SI No SEC

4863208

அரசுத் தேர்வுகள் துறை, சென்னை - 600006
DEPARTMENT OF GOVERNMENT EXAMINATIONS, CHENNAI - 600006

இடைநிலைப் பள்ளி இறுதி வகுப்புச் சான்றிதழ் SECONDARY SCHOOL LEAVING CERTIFICATE

புதிய பாடத்திட்டம் / NEW SYLLABUS

பத்தாம் வகுப்பு / X STANDARD

தமிழ்நாடு அரசின் அதிகாரத்திற்கு உட்பட்டு வழங்கப்படுகிறது
ISSUED UNDER THE AUTHORITY OF THE GOVERNMENT OF TAMILNADU



தேர்வர் **MURALI MANOGARAN V**

MAR 2015

இல் இடைநிலைப்

பள்ளி இறுதி வகுப்புச் சான்றிதழ் பொதுத் தேர்வெழுதிக் கிழ்க்காணும் மதிப்பெண்களைப் பெற்றுள்ளார் என்று சான்றளிக்கப்படுகிறது.

Certified that the above mentioned candidate appeared for the Secondary School Leaving Certificate Public Examination and obtained the following marks :

பாடம் SUBJECT	பெரும் அளவு மதிப்பெண்கள் MAX MARKS	பெற்ற மதிப்பெண்கள் MARKS OBTAINED
தமிழ் TAMIL	100	082 ZERO EIGHT TWO (P)
ஆங்கிலம் ENGLISH	100	066 ZERO SIX SIX (P)
கணிதம் MATHEMATICS	100	072 ZERO SEVEN TWO (P)
அறிவியல்* SCIENCE*	068	093 ZERO NINE THREE (P)
கருத்தியல் THEORY	025	
செய்முறை PRACTICAL		
சமூக அறிவியல் SOCIAL SCIENCE	100	078 ZERO SEVEN EIGHT (P)
மொத்தம் TOTAL	500	391 THREE NINE ONE (PASS)

பிறந்த தேதி / DATE OF BIRTH
22.09.99

பதிவெண்/REGISTER NO.
2161597

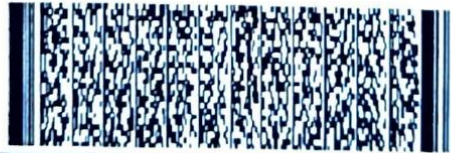
ம.அ.ப.குறியிட்டெண் & நாள் / TMR CODE NO. & DATE
C1262787 21.05.2015

பயிற்று மொழி / MEDIUM OF INSTRUCTION
ENGLISH

(2242 \ DGL435)

பள்ளியின் பெயர் / NAME OF THE SCHOOL

VIDHYA PARTHI HR SEC SCHOOL DINDIGUL



Murali manogaran

DATE'S SIGNATURE

செயலாளர்

மாநிலப் பள்ளித் தேர்வுகள் குழுவின் (இடைநிலை), தமிழ்நாடு

SECRETARY

STATE BOARD OF SCHOOL EXAMINATIONS (SEC), TAMILNADU



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2522

இவர், நினைவு-பள்ளி இறுதி வகுப்புச் சான்றிதழ் பொதுத் தேர்வில் தேர்ச்சி பெற ஒவ்வொரு பாடத்திலும், 100-க்குக் குறாம ஆளவு முடிபற்றத்து மதிப்பெண்கள் பெறுதல் வேண்டும். அறிவியல் பாடத்தில்* சுருத்தியலில் 75-க்கு 20 மதிப்பெண்களும் மற்றும் செய்முறைத் தேர்வில் 25-க்கு 15 மதிப்பெண்களும் பெறுதல் வேண்டும். இது பகுதி முறையில் தேர்வெழுதித் தேர்ச்சி பெறுவதற்கும் பொருத்தம்.

A PASS IN THE SSLC PUBLIC EXAMINATION REQUIRES A MINIMUM OF THIRTY FIVE PERCENT OF MARKS IN EACH SUBJECT. IN SCIENCE SUBJECT* 20 MARKS OUT OF 75 IN THEORY AND 15 MARKS OUT OF 25 IN PRACTICAL IS REQUIRED. THIS INCLUDES PASSING UNDER THE COMPARTMENTAL SYSTEM ALSO.

This Mark Certificate is distributed
through This School

Vidhya Parthi
HEADMISTRESS
Vidhya Parthi Hr. Sec. School



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B. Arun Kumar

POA, 608-3551
AUTHORIZED SIGNATORY
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OT TT OL TL

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A. CHITRA
608-2292
AUTHORIZED SIGNATORY
Please sign above

11508909 0000540001 001014 16




ANNA UNIVERSITY, CHENNAI - 600 025

B.E.
DEGREE EXAMINATIONS
CONSOLIDATED

Folio No. AUM3514465
M1306/17/10/AY



		REGISTER NO. : 920817114049		REGULATIONS : 2017 (CBCS)	
NAME OF THE CANDIDATE : MURALIMANOKARAN V		GENDER : MALE		DATE OF BIRTH : 22-SEP-1999	
COLLEGE OF STUDY : N P R COLLEGE OF ENGINEERING AND TECHNOLOGY		MEDIUM OF INSTRUCTION : English			
PROGRAMME & BRANCH : B.E. Mechanical Engineering		MONTH & YEAR OF LAST APPEARANCE : April 2021			
COURSE TITLE		COURSE TITLE			
SEM	COURSE CODE	C	LG	GP	MONTH & YEAR OF PASSING
01	CV8151	3	A	8	JAN 2019
01	CE8151	3	B	6	JAN 2019
01	CE8152	4	B	6	NOV 2019
01	CE8152	4	B	6	JAN 2019
01	HS8151	4	B	6	JAN 2019
01	MA8151	3	B	6	JAN 2019
01	PH8151	2	A+	9	JAN 2019
01	BS8161	2	A+	9	JAN 2019
01	GE8161	3	B	6	APR 2019
01	GE8161	3	B	6	APR 2019
02	BE8251	4	B	6	NOV 2019
02	CE8292	4	B	6	APR 2019
02	CE8292	4	B	6	APR 2019
02	HS8251	4	B	6	APR 2019
02	MA8251	3	B+	7	APR 2019
02	PH8251	2	O	10	APR 2019
02	BE8261	2	O	10	APR 2019
02	CE8261	2	A+	9	APR 2019
02	CE8261	4	B	6	NOV 2019
03	CE8354	3	B	6	NOV 2019
03	EE8355	4	B	6	APR 2019
03	MA8355	3	B	6	NOV 2019
03	ME8351	4	B	6	NOV 2019
03	ME8391	2	O	10	NOV 2019
03	EE8361	2	O	10	NOV 2019
03	ME8361	2	A+	9	NOV 2019
03	ME8381	1	O	10	NOV 2019
04	CE8395	3	B	6	APR 2019
04	MA8452	4	B	6	APR 2019
04	ME8451	3	B	6	APR 2019
04	ME8491	3	B	6	APR 2019
04	ME8492	3	B+	7	APR 2019
04	ME8493	3	B	6	APR 2019
04	CE8381	2	O	10	APR 2019
04	CE8381	1	B+	7	APR 2019
04	HS8461	2	O	10	APR 2019
04	ME8462	2	O	10	APR 2019
05	ME8501	3	B	6	NOV 2019
05	ME8593	3	B	6	NOV 2019
05	ME8594	4	B	6	NOV 2020

MONTH & YEAR OF LAST APPEARANCE : April 2021		MEDIUM OF INSTRUCTION : English	
COURSE CODE	C	LG	GP
ME8395	3	B	6
CV8151	3	B+	7
MA8311	2	O	10
ME8312	2	O	10
ME8313	2	O	10
ME8313	3	A+	8
ME8651	3	A+	8
ME8691	3	A+	8
ME8692	3	A+	9
ME8693	4	A	8
ME8694	3	A	8
PR8592	3	A+	8
HS8581	1	O	10
ME8681	2	O	10
ME8682	2	O	10
ME8791	3	O	10
ME8792	3	A+	9
ME8793	3	O	10
ME8793	3	A	8
ME8807	3	O	10
ME8807	3	A	8
ME8807	3	A	8
ME8807	3	A	8
ME8807	3	A	8
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ME8807	3	A	8
ME8807	3	A	8
ME8807	3	A	8

S/M: Semester, C: Credits, LG: Letter Grade, GP: Grade Point

Range of Marks	91 - 100	81 - 90	71 - 80	61 - 70	51 - 60	50 - 56	< 50
Letter Grade	S	A	B	C	D	E	U
Grade Point	10	9	8	7	6	5	0

Chennai: 600 025

Date: 23/09/2021

[Grade Classification R-2008 / R-2013]

SIGNATURE OF THE STUDENT

REGISTER NO.		920817114049				
GENDER		MALE				
DATE OF BIRTH		22-SEP-1999				
MEDIUM OF INSTRUCTION		English				
MONTH & YEAR OF LAST APPEARANCE		April 2021				
SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING
05	ME8895	Thermal Engineering- II	3	B	6	NOV 2019
05	CE8351	Automotive Systems	3	B+	7	NOV 2019
05	ME8811	Kinematics and Dynamics Laboratory	2	O	10	NOV 2019
05	ME8812	Thermal Engineering Laboratory	2	O	10	NOV 2019
05	ME8813	Metrology and Measurements Laboratory	2	O	10	NOV 2019
05	ME8851	Design of Transmission Systems	3	A+	9	APR 2020
05	ME8861	Computer Aided Design and Manufacturing	3	A	8	APR 2020
05	ME8892	Finite Element Analysis	3	A+	9	APR 2020
05	ME8893	Heat and Mass Transfer	4	A	8	APR 2020
05	ME8894	Hydraulics and Pneumatics	3	A	8	APR 2020
05	PE8892	Welding Technology	1	O	10	APR 2020
05	HS8881	Professional Communication	2	O	10	APR 2020
05	ME8881	CAD/CAM Laboratory	2	O	10	APR 2020
05	ME8882	Design and Fabrication Project	3	O	10	NOV 2020
05	ME8891	Mechatronics	3	A+	9	NOV 2020
05	ME8892	Power Plant Engineering	3	O	10	NOV 2020
05	ME8893	Process Planning and Cost Estimation	3	A	8	NOV 2020
05	ME8894	Unconventional Machining Processes	3	O	10	NOV 2020
05	ME8897	Non Destructive Testing and Evaluation	3	A+	9	NOV 2020
05	ME8751	Robotics	2	O	10	APR 2021
05	ME8711	Simulation and Analysis Laboratory	2	O	10	APR 2021
05	ME8781	Mechanics Laboratory	1	O	10	APR 2021
05	ME8712	Technical Seminar	1	O	10	APR 2021
05	ME8891	Principles of Management	3	A	8	APR 2021
05	IE8893	Production Planning and Control	3	A	8	APR 2021
05	ME8811	Project Work	10	O	10	APR 2021
*** End of Statement ***						
Cumulative Grade Point Average : 7.70						
Classification : FIRST CLASS						

Controller of Examinations

Chennai

600 025

*** End of Statement ***
Cumulative Grade Point Average : 7.70
Classification : FIRST CLASS



where G_{p_i} is the credits assigned to the course
 G_{p_i} is the grade corresponding to the grade obtained for each course
 n = the number of all courses successfully cleared during all the semesters

[Grade Classification R-2017]

Range of Marks	91-100	81-90	71-80	61-70	50-60	< 50
Letter Grade	O	A+	A	B+	B	U
Grade Point	10	9	8	7	6	0

*This grading methodology employed here is the one available in Anna University, Chennai (2017).

CONTROLLER OF EXAMINATIONS, ETC



ANNA UNIVERSITY
CHENNAI - 600 025



PROVISIONAL CERTIFICATE

Folio No.: **AUM3514465**

This is to certify that the following candidate has qualified for the award of Degree as detailed below:

Name : **MURALIMANOKARAN V**

Registration Number : **920817114049**

Degree : **B.E.**

Branch/Specialization : **Mechanical Engineering**

Month and Year of Passing: **April 2021**

Classification : **FIRST CLASS**



Chennai - 600 025.

Date : **23/09/2021**
M130070721034V


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ANNA UNIVERSITY, CHENNAI - 25 B.E. DEGREE EXAMINATIONS GRADE SHEET



Sl.No: MA 4134690

Folio No. AUM3514465

NAME OF THE CANDIDATE	MURALIMANOKARAN V					REGISTER NO	920817114049
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2021	DATE OF PUBLICATION	26-AUG-2021
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY					REGULATIONS	2017 (CBCS)
PROGRAMME & BRANCH	B.E. Mechanical Engineering						

SEM. NO	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
07	ME8711	Simulation and Analysis Laboratory	2	O	10	PASS
07	ME8712	Technical Seminar	1	O	10	PASS
07	ME8781	Mechatronics Laboratory	2	O	10	PASS
08	IE8693	Production Planning and Control	3	A	8	PASS
08	ME8811	Project Work	10	O	10	PASS
08	MG8591	Principles of Management	3	O	10	PASS

*** End of Statement ***

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered							5	16		
Credits Earned							5	16		
Grade Points Earned							30	28		
Grade Point Average (GPA)							10.000	9.625		
Cumulative Credits Earned	184		Cumulative Grade Point Average (CGPA)			7.70	Medium of Instruction : ENGLISH			

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination



Chennai - 600 025

23-09-2021

SIGNATURE OF THE CANDIDATE



[Signature]
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ANNA UNIVERSITY, CHENNAI - 25

B.E. DEGREE EXAMINATIONS

GRADE SHEET



Sl.No: MA 3294702

Folio No. AUN1260025

NAME OF THE CANDIDATE	MURALIMANOKARAN V					REGISTER NO	020017114040
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	NOV 2020	DATE OF PUBLICATION	26-AUG-2021
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY					REGULATIONS	2017 (CBCS)
PROGRAMME & BRANCH	B.E. Mechanical Engineering						

SEM. NO	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
05	ME8594	Dynamics of Machines	4	B	6	PASS
07	ME8073	Unconventional Machining Processes	3	A	8	PASS
07	ME8097	Non Destructive Testing and Evaluation	3	O	10	PASS
07	ME8791	Mechatronics	3	O	10	PASS
07	ME8792	Power Plant Engineering	3	A+	9	PASS
07	ME8793	Process Planning and Cost Estimation	3	O	10	PASS
07	OIE751	Robotics	3	A+	9	PASS

*** End of Statement ***

Note : Due to COVID - 19 Pandemic, the Examinations of the Session November / December 2020 were conducted in February 2021 / July 2021 (Re-Exams).

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered					4		18			
Credits Earned					4		18			
Grade Points Earned					6		56			
Grade Point Average (GPA)					6.000		9.333			
Cumulative Credits Earned	163	Cumulative Grade Point Average (CGPA)				7.44	Medium of Instruction : ENGLISH			

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination

Chennai - 600 025

Date 23-09-2021



SIGNATURE OF THE CANDIDATE



CONTROLLER OF EXAMINATIONS




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B.E. DEGREE EXAMINATIONS											
GRADE SHEET											
SI.No: MA 3389241					Folio No. AU02605572						
NAME OF THE CANDIDATE		MURALIMANOKARAN V					REGISTER NO.		920817114049		
DATE OF BIRTH		22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2020	DATE OF PUBLICATION		15-AUG-2020		
COLLEGE OF STUDY		N P R COLLEGE OF ENGINEERING AND TECHNOLOGY					REGULATIONS		2017 (CBCS)		
PROGRAMME & BRANCH		B.E. Mechanical Engineering									
SEM. NO	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT					
06	ME8682	Design and Fabrication Project	2	O	10	PASS					
06	ME8693	Heat and Mass Transfer	4	A	8	PASS					
06	HS8581	Professional Communication	1	O	10	PASS					
06	ME8681	CAD/CAM Laboratory	2	O	10	PASS					
06	ME8692	Finite Element Analysis	3	A+	9	PASS					
06	ME8651	Design of Transmission Systems	3	A+	9	PASS					
06	PR8592	Welding Technology	3	A+	9	PASS					
06	ME8694	Hydraulics and Pneumatics	3	A	8	PASS					
06	ME8691	Computer Aided Design and Manufacturing	3	A	8	PASS					
*** End of Statement ***											
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X	
Credits Registered						24					
Credits Earned						24					
Grade Points Earned						81					
Grade Point Average (GPA)						8.792					
Cumulative Credits Earned	141	Cumulative Grade Point Average (CGPA)				7.24	Medium of Instruction : ENGLISH				



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ANNA UNIVERSITY, CHENNAI - 25

B.E. DEGREE EXAMINATIONS

GRADE SHEET

Sl.No: MA 3909767

Folio No. AUP1170200



NAME OF THE CANDIDATE	MURALIMANOKARAN V	REGISTER NO	920817114049
DATE OF BIRTH	22-SEP-99	GENDER	MALE
MONTH & YEAR OF EXAMINATION	NOV 2019	DATE OF PUBLICATION	28-JAN-2020
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY	REGULATIONS	2017 (CBCS)
PROGRAMME & BRANCH	B.E. Mechanical Engineering		

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
02	GE8292	Engineering Mechanics	4	B	6	PASS
03	CE8394	Fluid Mechanics and Machinery	4	B	6	PASS
05	ME8511	Kinematics and Dynamics Laboratory	2	O	10	PASS
05	OAT551	Automotive Systems	3	B+	7	PASS
05	ME8501	Metrology and Measurements	3	B	6	PASS
05	ME8593	Design of Machine Elements	3	B	6	PASS
05	ME8595	Thermal Engineering- II	3	B	6	PASS
05	ME8512	Thermal Engineering Laboratory	2	O	10	PASS
05	ME8594	Dynamics of Machines	4	U	0	RA
05	ME8513	Metrology and Measurements Laboratory	2	O	10	PASS

*** End of Statement ***

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered		4	4		22					
Credits Earned		4	4		18					
Grade Points Earned		6	6		55					
Grade Point Average (GPA)		6.000	6.000		7.500					
Cumulative Credits Earned	117	Cumulative Grade Point Average (CGPA)				6.92	Medium of Instruction : ENGLISH			

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination



Chennai - 600 025

Date: 15-07-2020

SIGNATURE OF THE CANDIDATE



CONTROLLER OF EXAMINATIONS/c







NPR

College of Engineering & Technology

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Natham, Dindigul - 624 401. Web: www.nprcet.org



ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET		Folio No. AUQ1116566				
NAME OF THE CANDIDATE		MURALIMANOKARAN V				REGISTER NO		920817114049		
DATE OF BIRTH		22-SEP-99	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2019	DATE OF PUBLICATION		22-JUN-19	
COLLEGE OF STUDY		N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS		2017 (CBCS)		
PROGRAMME & BRANCH		B.E. Mechanical Engineering								
SEM. NO.	COURSE CODE	COURSE TITLE				CREDITS	LETTER GRADE	GRADE POINT	RESULT	
02	GE8292	Engineering Mechanics				4	U	0	RA*	
02	MA8251	Engineering Mathematics - II				4	B	6	PASS	
03	CE8394	Fluid Mechanics and Machinery				4	U	0	RA	
03	MA8353	Transforms and Partial Differential Equations				4	B	6	PASS	
04	ME8462	Manufacturing Technology Laboratory - II				2	O	10	PASS	
04	ME8491	Engineering Metallurgy				3	B	6	PASS	
04	MA8452	Statistics and Numerical Methods				4	B	6	PASS	
04	CE8395	Strength of Materials for Mechanical Engineers				3	B	6	PASS	
04	ME8451	Manufacturing Technology - II				3	B	6	PASS	
04	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory				2	O	10	PASS	
04	HS8461	Advanced Reading and Writing				1	B+	7	PASS	
04	ME8493	Thermal Engineering- I				3	B	6	PASS	
04	ME8492	Kinematics of Machinery				3	B+	7	PASS	
*** End of Statement ***										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered		8	8	24						
Credits Earned		4	4	24						
Grade Points Earned		6	6	64						
Grade Point Average (GPA)		6.000	6.000	6.833						
Cumulative Credits Earned	91	Cumulative Grade Point Average (CGPA)				6.89	Medium of Instruction : ENGLISH			
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination										
										
Chennai - 600 025 Date 18-09-19		SIGNATURE OF THE CANDIDATE				CONTROLLER OF EXAMINATIONS Vc				



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ANNA UNIVERSITY, CHENNAI - 25

B.E. DEGREE EXAMINATIONS

GRADE SHEET



SI.No: **MA 2394116**

Folio No. AUR1052246

NAME OF THE CANDIDATE	MURALIMANOKARAN V					REGISTER NO	920817114049
DATE OF BIRTH	22-SEP-99	GENDER	MALE	MONTH & YEAR OF EXAMINATION	NOV 2018	DATE OF PUBLICATION	12-JAN-19
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY					REGULATIONS	2017 (CBCS)
PROGRAMME & BRANCH	B.E. Mechanical Engineering						

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
01	GE8152	Engineering Graphics	4	B	6	PASS
03	ME8381	Computer Aided Machine Drawing	2	A+	9	PASS
03	ME8391	Engineering Thermodynamics	4	B	6	PASS
03	MA8353	Transforms and Partial Differential Equations	4	U	0	RA
03	HS8381	Interpersonal Skills/Listening and Speaking	1	O	10	PASS
03	CE8394	Fluid Mechanics and Machinery	4	U	0	RA
03	EE8353	Electrical Drives and Controls	3	B	6	PASS
03	ME8361	Manufacturing Technology Laboratory - I	2	O	10	PASS
03	EE8361	Electrical Engineering Laboratory	2	O	10	PASS
03	ME8351	Manufacturing Technology - I	3	B	6	PASS
*** End of Statement ***						

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered	4		25							
Credits Earned	4		17							
Grade Points Earned	6		57							
Grade Point Average (GPA)	6.000		7.529							
Cumulative Credits Earned	59	Cumulative Grade Point Average (CGPA)				7.03	Medium of Instruction : ENGLISH			

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination

Chennai - 600 025

Date 09-05-19



SIGNATURE OF THE CANDIDATE



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ANNA UNIVERSITY, CHENNAI - 25

B.E. DEGREE EXAMINATIONS

GRADE SHEET



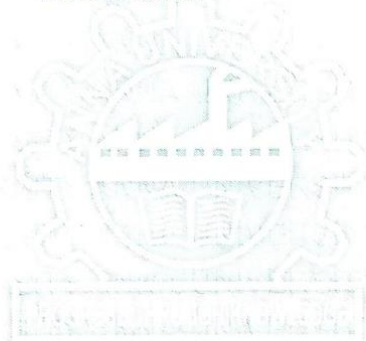
SI.No: MA 4866630

Folio No. AUS1536218

NAME OF THE CANDIDATE	MURALIMANOKARAN V				REGISTER NO	920817114049
DATE OF BIRTH	22-SEP-99	GENDER	MALE	MONTH & YEAR OF EXAMINATION	DATE OF PUBLICATION	29-JUN-18
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS	2017 (CBCS)
PROGRAMME & BRANCH	B.E. Mechanical Engineering					

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
02	BE8253	Basic Electrical, Electronics and Instrumentation Engineering	3	B	6	PASS
02	GE8291	Environmental Science and Engineering	3	B	6	PASS
02	GE8292	Engineering Mechanics	4	U	0	RA
02	HS8251	Technical English	4	B	6	PASS
02	MA8251	Engineering Mathematics - II	4	U	0	RA
02	PH8251	Materials Science	3	B+	7	PASS
02	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	2	O	10	PASS
02	GE8261	Engineering Practices Laboratory	2	A+	9	PASS

*** End of Statement ***



Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered		25								
Credits Earned		17								
Grade Points Earned		44								
Grade Point Average (GPA)		7.000								
Cumulative Credits Earned	38	Cumulative Grade Point Average (CGPA)				6.92	Medium of Instruction : ENGLISH			

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination

Chennai - 600 025.

Date 13-12-18



SIGNATURE OF THE CANDIDATE



CONTROLLER OF EXAMINATIONS

1/6



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B.E. DEGREE EXAMINATIONS

GRADE SHEET



SI.No: MA 9755808

Folio No. AUT1631503

NAME OF THE CANDIDATE	MURALIMANOKARAN V					REGISTER NO	920817114049
DATE OF BIRTH	22-SEP-99	GENDER	MALE	MONTH & YEAR OF EXAMINATION	JAN 2018	DATE OF PUBLICATION	05-FEB-18
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY					REGULATIONS	2017 (CBCS)
PROGRAMME & BRANCH	B.E. Mechanical Engineering						

SEM. NO.	COURSE CODE	COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESULT
01	CY8151	Engineering Chemistry	3	A	8	PASS
01	GE8151	Problem Solving and Python Programming	3	B	6	PASS
01	GE8152	Engineering Graphics	4	U	0	RA
01	HS8151	Communicative English	4	B	6	PASS
01	MA8151	Engineering Mathematics - I	4	B	6	PASS
01	PH8151	Engineering Physics	3	B	6	PASS
01	BS8161	Physics and Chemistry Laboratory	2	A+	9	PASS
01	GE8161	Problem Solving and Python Programming Laboratory	2	A+	9	PASS
*** End of Statement ***						

Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered	25									
Credits Earned	21									
Grade Points Earned	50									
Grade Point Average (GPA)	6.857									
Cumulative Credits Earned	21	Cumulative Grade Point Average (CGPA)				6.86	Medium of Instruction : ENGLISH			

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

* Absent for University Examination

Chennai - 600 025

Date: 24-04-18



SIGNATURE OF THE CANDIDATE



[Signature]

CONTROLLER OF EXAMINATIONS i/c



சான்றிதழ் எண்
CERTIFICATE SL NO. HSG

12536997

தமிழ்நாடு மாநிலப் பள்ளித் தேர்வுகள் குழுமம்
STATE BOARD OF SCHOOL EXAMINATIONS, TAMILNADU

அரசுத் தேர்வுகள் துறை, சென்னை - 600 006

DEPARTMENT OF GOVERNMENT EXAMINATIONS, CHENNAI - 600 006

மேல்நிலைப் பள்ளிக் கல்விச் சான்றிதழ்

HIGHER SECONDARY COURSE CERTIFICATE

பொதுக்கல்வி / GENERAL EDUCATION

தமிழ்நாடு அரசின் அதிகாரத்திற்கு உட்பட்டு வழங்கப்படுகிறது
ISSUED UNDER THE AUTHORITY OF THE GOVERNMENT OF TAMILNADU



தேர்வரின் பெயர் / NAME OF THE CANDIDATE	பருவம் / SESSION
முரளி மனோகரன் வி MURALI MANOGARAN V	மார்ச் 2017 MAR 2017

மேல்நிலைப் பள்ளிக் கல்விப் பொதுத் தேர்வுவெழுதிய மேற்காண் தேர்வர் கீழ்க்காணும் மதிப்பெண்களைப் பெற்றுள்ளார் என்று சான்றளிக்கப்படுகிறது.

Certified that the above mentioned candidate appeared for the Higher Secondary Public Examination and obtained the following marks :

பாடம் SUBJECT	கருத்தியல் THEORY 150	செய்முறை PRAC. 50	பெற்ற மதிப்பெண்கள் 200 க்கு MARKS OBTAINED FOR 200
தமிழ் TAMIL			174 ONE SEVEN FOUR (P)
ஆங்கிலம் ENGLISH			143 ONE FOUR THREE (P)
இயற்பியல் PHYSICS	081	050	131 ONE THREE ONE (P)
வேதியியல் CHEMISTRY	085	050	135 ONE THREE FIVE (P)
கணிப்பொறி இயல் COMPUTER SCIENCE	118	050	168 ONE SIX EIGHT (P)
கணிதவியல் MATHEMATICS			098 ZERO NINE EIGHT (P)

மொத்த மதிப்பெண்கள் / TOTAL MARKS : 0849 ZERO EIGHT FOUR NINE

பிறந்த தேதி / DATE OF BIRTH	தேர்வெண் / ROLL NO.	அ. ம. ப. குறியீட்டெண் & நாள் / TMR CODE NO. & DATE
22.09.1999	228253	G297576 12.05.2017
நிரந்தரப் பதிவெண் / PERMANENT REGISTER NO.	பயிற்று மொழி / MEDIUM OF INSTRUCTION	பாடத்தொகுப்பு எண் / GROUP CODE
1710218253	ENGLISH	102

(22 \ DGL435 \ 2229)

பள்ளியின் பெயர் / NAME OF THE SCHOOL

வித்யா பார்த்தி மேல்நிலைப் பள்ளி, சீலப்பாடி, திண்டுக்கல்.
VIDHYA PARTHI HR SEC SCHOOL DINDIGUL

v. Murali manogaran

தேர்வரின் கையொப்பம்
SIGNATURE OF THE CANDIDATE

உறுப்பினர் செயலர்
மாநிலப் பள்ளித் தேர்வுகள் குழுமம் (மேல்நிலை), தமிழ்நாடு
MEMBER SECRETARY
STATE BOARD OF SCHOOL EXAMINATIONS (HR. SEC), TAMILNADU





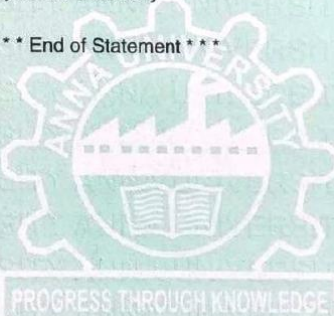

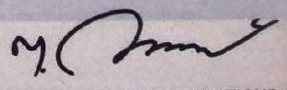
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MARKSHEET AFTER NAME CORRECTION

ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET		Folio No. AUP1170200/NC				
		SI.No: MA 9169096		Folio No. AUP1170200/NC						
NAME OF THE CANDIDATE		MURALI MANOGARAN V				REGISTER NO. 920817114049				
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	NOV 2019	DATE OF PUBLICATION	28-JAN-2020			
COLLEGE OF STUDY		N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS 2017 (CBCS)				
PROGRAMME & BRANCH		B.E. Mechanical Engineering								
SEM. NO.	COURSE CODE	COURSE TITLE				CREDITS	LETTER GRADE	GRADE POINT	RESULT	
02	GE8292	Engineering Mechanics				4	B	6	PASS	
03	CE8394	Fluid Mechanics and Machinery				4	B	6	PASS	
05	ME8501	Metrology and Measurements				3	B	6	PASS	
05	ME8595	Thermal Engineering- II				3	B	6	PASS	
05	ME8593	Design of Machine Elements				3	B	6	PASS	
05	ME8594	Dynamics of Machines				4	U	0	RA	
05	ME8512	Thermal Engineering Laboratory				2	O	10	PASS	
05	OAT551	Automotive Systems				3	B+	7	PASS	
05	ME8513	Metrology and Measurements Laboratory				2	O	10	PASS	
05	ME8511	Kinematics and Dynamics Laboratory				2	O	10	PASS	
*** End of Statement ***										
										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered		4	4		22					
Credits Earned		4	4		18					
Grade Points Earned		6	6		55					
Grade Point Average (GPA)		6.000	6.000		7.500					
Cumulative Credits Earned	117	Cumulative Grade Point Average (CGPA)				6.92	Medium of Instruction : ENGLISH			
RA - Reappearance is Required		W-Withdrawal		SE - Sports Exemption		* Absent for University Examination				
		SIGNATURE OF THE CANDIDATE				 CONTROLLER OF EXAMINATIONS				
Chennai - 600 025. Date : 27-04-2022										

ANNA UNIVERSITY, CHENNAI - 600 025
B.E. DEGREE EXAMINATIONS
CONSOLIDATED STATEMENT OF GRADES
 Folio No. **AUM3514465/ NC**
 M150070721534V

NAME OF THE CANDIDATE MURALI MANOGARAN V

COLLEGE OF STUDY N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

PROGRAMME & BRANCH B.E. Mechanical Engineering

REGISTER NO. 920817114049

GENOER MALE

DATE OF BIRTH 22-SEP-1999

MEDIUM OF INSTRUCTION English

SEM	COURSE CODE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING	MONTH & YEAR OF LAST APPEARANCE	COURSE TITLE	C	LG	GP	MONTH & YEAR OF PASSING
01	CY8151	Engineering Chemistry	3	A	8	JAN 2018	05	ME8595	3	B	6	NOV 2019
01	CE8151	Problem Solving and Python Programming	4	B	6	NOV 2018	05	OAT151	3	B+	7	NOV 2019
01	CE8152	Engineering Graphics	4	B	6	NOV 2018	05	ME8511	2	O	10	NOV 2019
01	HS8151	Communicative English	4	B	6	JAN 2018	05	ME8512	2	O	10	NOV 2019
01	MA8151	Engineering Mathematics - I	4	B	6	JAN 2018	05	ME8513	2	O	10	NOV 2019
01	PH8151	Engineering Physics	3	B	6	JAN 2018	06	ME8651	3	A+	9	APR 2020
01	BS8161	Physics and Chemistry Laboratory	2	A+	9	JAN 2018	06	ME8691	3	A	8	APR 2020
01	CE8161	Problem Solving and Python Programming Laboratory	2	A+	9	JAN 2018	06	ME8692	3	A	8	APR 2020
02	BE8251	Basic Electrical, Electronics and Instrumentation Engineering	3	B	6	APR 2018	06	ME8693	3	A+	9	APR 2020
02	GE8292	Engineering Mechanics	4	B	6	APR 2018	06	ME8694	4	A	8	APR 2020
02	HS8251	Technical English	4	B	6	APR 2018	06	PH8592	3	A+	9	APR 2020
02	MA8251	Engineering Mathematics - II	4	B	6	APR 2018	06	PH8592	3	A+	9	APR 2020
02	PH8251	Materials Science	3	B+	7	APR 2018	06	ME8681	1	O	10	APR 2020
02	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory	2	O	10	APR 2018	07	ME8791	2	O	10	APR 2020
02	CE8261	Engineering Precision Laboratory	2	A+	9	APR 2018	07	ME8792	3	A+	9	NOV 2020
03	CE8364	Fluid Mechanics and Machinery	4	B	6	NOV 2018	07	ME8793	3	O	10	NOV 2020
03	EE8353	Electrical Drives and Controls	4	B	6	NOV 2018	07	ME8795	3	A	8	NOV 2020
03	MA8353	Transformations and Partial Differential Equations	4	B	6	APR 2019	07	ME8897	3	O	10	NOV 2020
03	ME8351	Manufacturing Technology - I	4	B	6	NOV 2018	07	OE751	3	A+	9	NOV 2020
03	EE8361	Engineering Thermodynamics	4	B	6	NOV 2018	07	ME8711	2	O	10	APR 2021
03	ME8361	Electrical Engineering Laboratory	2	O	10	NOV 2018	07	ME8712	1	O	10	APR 2021
03	ME8381	Computer Aided Machine Drawing	2	A+	9	NOV 2018	08	ME8591	3	O	10	APR 2021
04	HS8381	Interpersonal Skill Training and Spreading	2	O	10	NOV 2018	08	IB8891	3	A	8	APR 2021
04	CE8395	Strength of Materials for Mechanical Engineers	4	B	6	APR 2019	08	ME8811	3	O	10	APR 2021
04	MA8452	Statistics and Numerical Methods	4	B	6	APR 2019	08					
04	ME8451	Manufacturing Technology - II	4	B	6	APR 2019	08					
04	ME8491	Engineering Metallurgy	3	B	6	APR 2019	08					
04	ME8492	Kinematics of Machinery	3	B+	7	APR 2019	08					
04	CE8481	Strength of Materials and Fluid Mechanics and Machinery Laboratory	3	B	6	APR 2019	08					
04	HS8461	Advanced Reading and Writing	1	B+	7	APR 2019	08					
05	ME8462	Manufacturing Technology Laboratory - II	2	O	10	APR 2019	08					
05	ME8501	Manufacturing Technology Laboratory - II	3	B	6	NOV 2019	08					
05	ME8594	Design of Machine Elements	3	B	6	NOV 2019	08					
05	ME8594	Dynamics of Machines	4	B	6	NOV 2020	08					

Cumulative Grade Point Average : 7.70

Classification : FIRST CLASS

***** End of Statement *****

Signature of the Student

Signature of the Controller of Examinations

Controller of Examinations

ANNA UNIVERSITY

CHENNAI - 600 025



PROVISIONAL CERTIFICATE

Folio No.:AUM3514465/ NC

This is to certify that the following candidate has qualified for the award of Degree as detailed below:

Name : MURALI MANOGARAN V

Registration Number : 920817114049

Degree : B.E.

Branch/Specialization : Mechanical Engineering

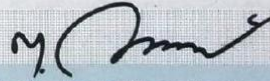
Month and Year of Passing: April 2021

Classification : FIRST CLASS


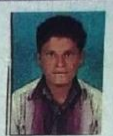
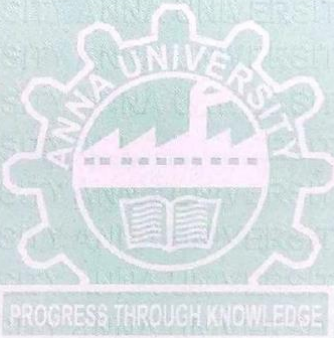


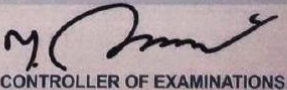



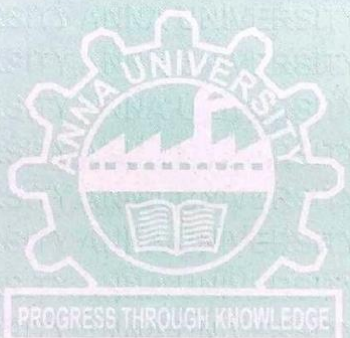


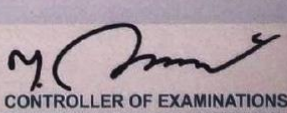
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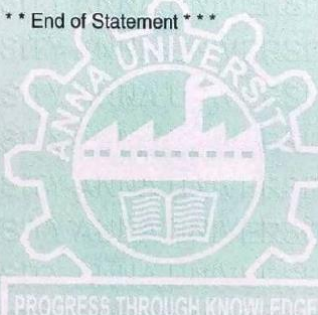

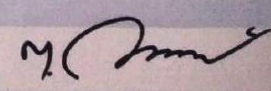

Date : 26/04/2022
M130070721034V


Controller of Examinations

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ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET		Folio No. AUM3514465/NC				
		SI.No: MA 9169106								
NAME OF THE CANDIDATE		MURALI MANOGARAN V				REGISTER NO. 920817114049				
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2021	DATE OF PUBLICATION	26-AUG-2021			
COLLEGE OF STUDY		N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS 2017 (CBCS)				
PROGRAMME & BRANCH		B.E. Mechanical Engineering								
SEM. NO.	COURSE CODE	COURSE TITLE			CREDITS	LETTER GRADE	GRADE POINT	RESULT		
07	ME8711	Simulation and Analysis Laboratory			2	O	10	PASS		
07	ME8712	Technical Seminar			1	O	10	PASS		
07	ME8781	Mechatronics Laboratory			2	O	10	PASS		
08	IE8693	Production Planning and Control			3	A	8	PASS		
08	ME8811	Project Work			10	O	10	PASS		
08	MG8591	Principles of Management			3	O	10	PASS		
*** End of Statement ***										
										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered							5	16		
Credits Earned							5	16		
Grade Points Earned							30	28		
Grade Point Average (GPA)							10.000	9.625		
Cumulative Credits Earned	184		Cumulative Grade Point Average (CGPA)			7.70		Medium of Instruction : ENGLISH		
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination										
Chennai - 600 025. Date : 27-04-2022										1/6

ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET						
Sl.No: MA 9169104		Folio No. AUN1260025/NC								
NAME OF THE CANDIDATE	MURALI MANOGARAN V					REGISTER NO.	920817114049			
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	NOV 2020	DATE OF PUBLICATION	26-AUG-2021			
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY					REGULATIONS	2017 (CBCS)			
PROGRAMME & BRANCH	B.E. Mechanical Engineering									
SEM. NO.	COURSE CODE	COURSE TITLE			CREDITS	LETTER GRADE	GRADE POINT	RESULT		
05	ME8594	Dynamics of Machines			4	B	6	PASS		
07	ME8073	Unconventional Machining Processes			3	A	8	PASS		
07	ME8097	Non Destructive Testing and Evaluation			3	O	10	PASS		
07	ME8791	Mechatronics			3	O	10	PASS		
07	ME8792	Power Plant Engineering			3	A+	9	PASS		
07	ME8793	Process Planning and Cost Estimation			3	O	10	PASS		
07	OIE751	Robotics			3	A+	9	PASS		
*** End of Statement ***										
										
<p>Note : Due to COVID - 19 Pandemic, the Examinations of the Session November / December 2020 were conducted in February 2021 / July 2021 (Re-Exams).</p>										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered					4		18			
Credits Earned					4		18			
Grade Points Earned					6		56			
Grade Point Average (GPA)					6.000		9.333			
Cumulative Credits Earned	163		Cumulative Grade Point Average (CGPA)			7.44		Medium of Instruction : ENGLISH		
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination										
										
Chennai - 600 025. Date : 27-04-2022		SIGNATURE OF THE CANDIDATE				CONTROLLER OF EXAMINATIONS				

ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET		Folio No. AUO2605572/NC				
		SI.No: MA 9169094		Folio No. AUO2605572/NC						
NAME OF THE CANDIDATE		MURALI MANOGARAN V				REGISTER NO. 920817114049				
DATE OF BIRTH		22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2020	DATE OF PUBLICATION			
COLLEGE OF STUDY		N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS				
PROGRAMME & BRANCH		B.E. Mechanical Engineering				2017 (CBCS)				
SEM. NO.	COURSE CODE	COURSE TITLE				CREDITS	LETTER GRADE	GRADE POINT	RESULT	
06	PR8592	Welding Technology				3	A+	9	PASS	
06	ME8682	Design and Fabrication Project				2	O	10	PASS	
06	ME8691	Computer Aided Design and Manufacturing				3	A	8	PASS	
06	ME8694	Hydraulics and Pneumatics				3	A	8	PASS	
06	ME8681	CAD/CAM Laboratory				2	O	10	PASS	
06	ME8692	Finite Element Analysis				3	A+	9	PASS	
06	ME8693	Heat and Mass Transfer				4	A	8	PASS	
06	HS8581	Professional Communication				1	O	10	PASS	
06	ME8651	Design of Transmission Systems				3	A+	9	PASS	
*** End of Statement ***										
										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered						24				
Credits Earned						24				
Grade Points Earned						81				
Grade Point Average (GPA)						8.792				
Cumulative Credits Earned	141		Cumulative Grade Point Average (CGPA)			7.24	Medium of Instruction : ENGLISH			
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination										
Chennai - 600 025. Date : 27-04-2022						 SIGNATURE OF THE CANDIDATE				
						 CONTROLLER OF EXAMINATIONS				

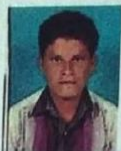


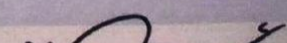
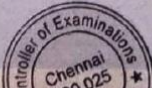
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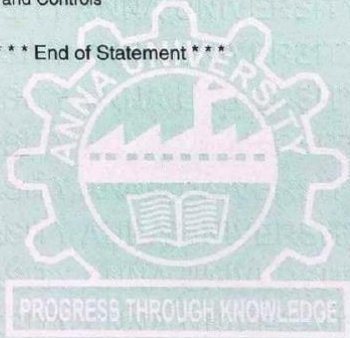

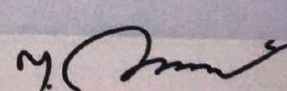

College of Engineering & Technology


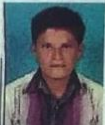
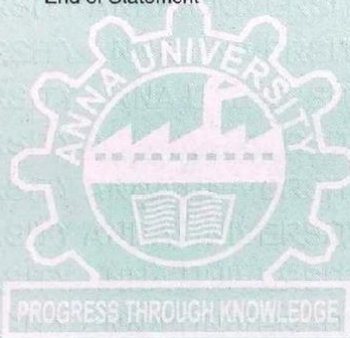

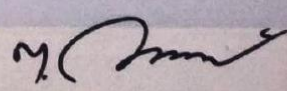
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Natham, Dindigul - 624 401. Web: www.nprcet.org



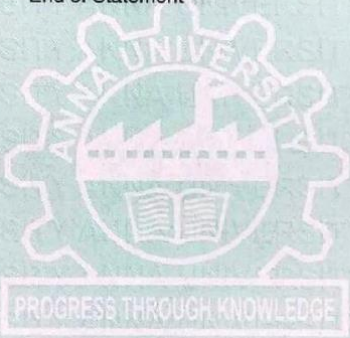

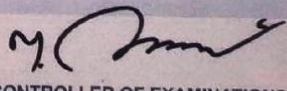


ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET							
SI.No: MA 9169098		Folio No. AUQ1116566/NC									
NAME OF THE CANDIDATE	MURALI MANOGARAN V				REGISTER NO.	920817114049					
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2019	DATE OF PUBLICATION	22-JUN-19				
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS	2017 (CBCS)					
PROGRAMME & BRANCH	B.E. Mechanical Engineering										
SEM. NO.	COURSE CODE	COURSE TITLE			CREDITS	LETTER GRADE	GRADE POINT	RESULT			
02	GE8292	Engineering Mechanics			4	U	0	RA*			
02	MA8251	Engineering Mathematics - II			4	B	6	PASS			
03	CE8394	Fluid Mechanics and Machinery			4	U	0	RA			
03	MA8353	Transforms and Partial Differential Equations			4	B	6	PASS			
04	ME8462	Manufacturing Technology Laboratory - II			2	O	10	PASS			
04	ME8492	Kinematics of Machinery			3	B+	7	PASS			
04	HS8461	Advanced Reading and Writing			1	B+	7	PASS			
04	ME8493	Thermal Engineering- I			3	B	6	PASS			
04	CE8381	Strength of Materials and Fluid Mechanics and Machinery Laboratory			2	O	10	PASS			
04	CE8395	Strength of Materials for Mechanical Engineers			3	B	6	PASS			
04	ME8491	Engineering Metallurgy			3	B	6	PASS			
04	MA8452	Statistics and Numerical Methods			4	B	6	PASS			
04	ME8451	Manufacturing Technology - II			3	B	6	PASS			
*** End of Statement ***											
Semester		I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered			8	8	24						
Credits Earned			4	4	24						
Grade Points Earned			6	6	64						
Grade Point Average (GPA)			6.000	6.000	6.833						
Cumulative Credits Earned		91	Cumulative Grade Point Average (CGPA)			6.89	Medium of Instruction : ENGLISH				
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination											



ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET						
SI.No: MA 9169100		Folio No. AUR1052246/ NC								
NAME OF THE CANDIDATE	MURALI MANOGARAN V				REGISTER NO.	920817114049				
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	NOV 2018	DATE OF PUBLICATION	12-JAN-19			
COLLEGE OF STUDY	N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS	2017 (CBCS)				
PROGRAMME & BRANCH	B.E. Mechanical Engineering									
SEM. NO.	COURSE CODE	COURSE TITLE			CREDITS	LETTER GRADE	GRADE POINT	RESULT		
01	GE8152	Engineering Graphics			4	B	6	PASS		
03	ME8381	Computer Aided Machine Drawing			2	A+	9	PASS		
03	ME8351	Manufacturing Technology - I			3	B	6	PASS		
03	EE8361	Electrical Engineering Laboratory			2	O	10	PASS		
03	MA8353	Transforms and Partial Differential Equations			4	U	0	RA		
03	HS8381	Interpersonal Skills/Listening and Speaking			1	O	10	PASS		
03	ME8391	Engineering Thermodynamics			4	B	6	PASS		
03	ME8361	Manufacturing Technology Laboratory - I			2	O	10	PASS		
03	CE8394	Fluid Mechanics and Machinery			4	U	0	RA		
03	EE8353	Electrical Drives and Controls			3	B	6	PASS		
*** End of Statement ***										
 <p>PROGRESS THROUGH KNOWLEDGE</p>										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered	4		25							
Credits Earned	4		17							
Grade Points Earned	6		57							
Grade Point Average (GPA)	6.000		7.529							
Cumulative Credits Earned	59	Cumulative Grade Point Average (CGPA)				7.03	Medium of Instruction : ENGLISH			
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination										
Chennai - 600 025. Date : 27-04-2022				SIGNATURE OF THE CANDIDATE						

ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET		Folio No. AUS1536218/NC				
		SI.No: MA 9169102								
NAME OF THE CANDIDATE		MURALI MANOGARAN V				REGISTER NO. 920817114049				
DATE OF BIRTH		22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	APR 2018	DATE OF PUBLICATION 29-JUN-18			
COLLEGE OF STUDY		N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS 2017 (CBCS)				
PROGRAMME & BRANCH		B.E. Mechanical Engineering								
SEM. NO.	COURSE CODE	COURSE TITLE				CREDITS	LETTER GRADE	GRADE POINT	RESULT	
02	BE8253	Basic Electrical, Electronics and Instrumentation Engineering				3	B	6	PASS	
02	GE8291	Environmental Science and Engineering				3	B	6	PASS	
02	GE8292	Engineering Mechanics				4	U	0	RA	
02	HS8251	Technical English				4	B	6	PASS	
02	MA8251	Engineering Mathematics - II				4	U	0	RA	
02	PH8251	Materials Science				3	B+	7	PASS	
02	BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory				2	O	10	PASS	
02	GE8261	Engineering Practices Laboratory				2	A+	9	PASS	
*** End of Statement ***										
										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered		25								
Credits Earned		17								
Grade Points Earned		44								
Grade Point Average (GPA)		7.000								
Cumulative Credits Earned	38	Cumulative Grade Point Average (CGPA)				6.92	Medium of Instruction : ENGLISH			
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination										
Chennai - 600 025. Date : 27-04-2022				SIGNATURE OF THE CANDIDATE			 CONTROLLER OF EXAMINATIONS			

ANNA UNIVERSITY, CHENNAI - 25		B.E. DEGREE EXAMINATIONS		GRADE SHEET		Folio No. AUT1631503/NC				
		SI.No: MA 9169698		Folio No. AUT1631503/NC						
NAME OF THE CANDIDATE		MURALI MANOGARAN V				REGISTER NO				
DATE OF BIRTH		22-SEP-1999	GENDER	MALE	MONTH & YEAR OF EXAMINATION	JAN 2018	DATE OF PUBLICATION			
COLLEGE OF STUDY		N P R COLLEGE OF ENGINEERING AND TECHNOLOGY				REGULATIONS				
PROGRAMME & BRANCH		B.E. Mechanical Engineering				2017 (CBCS)				
SEM. NO.	COURSE CODE	COURSE TITLE				CREDITS	LETTER GRADE	GRADE POINT	RESULT	
01	CY8151	Engineering Chemistry				3	A	8	PASS	
01	GE8151	Problem Solving and Python Programming				3	B	6	PASS	
01	GE8152	Engineering Graphics				4	U	0	RA	
01	HS8151	Communicative English				4	B	6	PASS	
01	MA8151	Engineering Mathematics - I				4	B	6	PASS	
01	PH8151	Engineering Physics				3	B	6	PASS	
01	BS8161	Physics and Chemistry Laboratory				2	A+	9	PASS	
01	GE8161	Problem Solving and Python Programming Laboratory				2	A+	9	PASS	
*** End of Statement ***										
										
Semester	I	II	III	IV	V	VI	VII	VIII	IX	X
Credits Registered	25									
Credits Earned	21									
Grade Points Earned	50									
Grade Point Average (GPA)	6.857									
Cumulative Credits Earned	21	Cumulative Grade Point Average (CGPA)				6.86	Medium of Instruction : ENGLISH			
RA - Reappearance is Required W-Withdrawal SE - Sports Exemption * Absent for University Examination										
Chennai - 600 025. Date : 27-04-2022				SIGNATURE OF THE CANDIDATE			 CONTROLLER OF EXAMINATIONS			