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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

S. No.	Content	Page No.
1.	Exam cell Notice Board -Notification of Continuous Internal Evaluation (CIE)	03
2.	Answer Sheet Verified by Student	04
3.	Students Web portal Entry	13
4.	Class Committee Meeting	23
5.	Class Committee Meeting-Evidence	29
6.	Evaluation Process of University- Students registration form	40
7.	Photocopy of answer sheet with Recommended	41
8.	Anna university revaluation result	42
9.	Mark sheet name correction	44



Dr. J.SUNDARARAJAN,

B.E. M.Tech., Ph.D.,

Principal

N.P.R. College of Engineering & Technology

Natham, Dindigui (Dt) - 624 401.



# RPR College of Engineering & Technology

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## **ACADEMIC YEAR**

2022 - 23

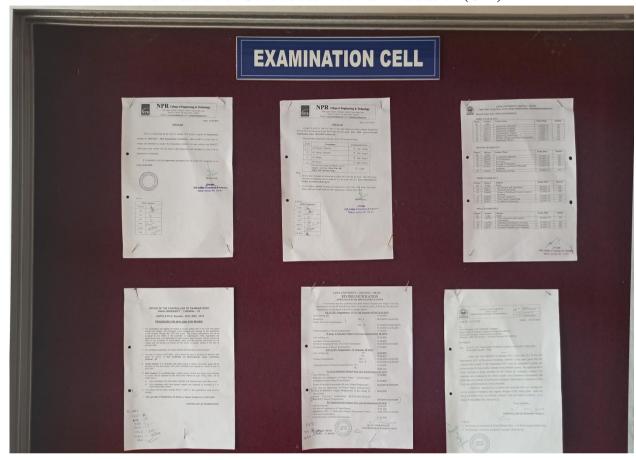




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#### **Exam cell Notice Board**

#### **Notification of Continuous Internal Evaluation (CIE)**





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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### ANSWER SHEET VERIFIED BY STUDENT



INTERNAL TEST-I/II

920819114022 a) Register Number

b) Year & Department

IV - Mech. DIE 751 - Robotics c) Subject code & Title : d) Date & Session (FN/AN): 21/09/2014 FN

e) Number of pages used : 08

Cs. SUDIAMANT Name and Signature of the Hall Superintendent with Date

	PA	RT-A	
Question No.	1	CO Marks	CO2 Marks
1.	~	2	
2.		2	
3.	/	2	
4.	~		2
5.	/		2
TOTAL		6	4
TOTAL MA	ARKS	11	)

		rnark f		nts has to estions att			rk column		
				PART-	в & с	:			
Oues	tion	(i)	i	i	(ii)	ii	ii		
	No.		COL. Marks	CO <del>2.</del> Marks	~	COL Marks	CO.2 Marks	Total Marks	
6.		~	8					8	
a)		~		15				15	
7. a)									
0	a)		15					15	
0.	8. b)								
Т	OTAL		23	ts				38	

CO. No.	Total Marks	Attained Marks
co!	30	29
co2	20	19

48 **Grand Total** 

Name and Signature of the Faculty

T. Bala Subramani

Name and Signature of the HoD



1.

2

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> TATERNAL EXAM OIE 751 - DOBOTICS

Part - A

pitch, yan, roll.

Pitch: up and down notation.

Loft and right notation

side to side notation. 12011

Wolk volume.

Wolk volume refers to the three dimensional robot or a robotic system can xchoch within tasks of operations. It defines the reachable area or space where the end effector or tool mobot can move and interact with objects.

Three degrees of freedom

movement along three axes typically translation (2, y, z):

representing footigned/backworld (x), Left right cy),

up I down (2) motion.

Rotation (ROU, Pitch, your):

potational movements around

three auxies typically representing side to stide toil.

upround down (pitch), upft to right (your) rotation.

de straighteing Flexion / Extension " Bending bending Elbow of knee. 100 movement. Such us



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pobot and end effectal 4

\* Carippols: - Grasping devices For object manipulation

\* wording huns: tool for automated wording proces.

\* Suction coupy: used For Lifting smooth object.

at cutting tools : Blooks For trimming or machining tasks

\* 8D print Heads : Nozzles For adolitivo manufacturing.

Find effectos.

End effector are devices of tools attached to the end of a subotic alm of manipulators. to perform specific task such bus grasping designed objects, wording, cutting of any ottol action required by to application,

#### PART -13

b. The Industrial rebot

Industrial robot can be classified into several based on their mechanical structure, application, Control system. How s a brief overview. and

Articulated Robots:

These mobots have rotary resombling a human our allowing for Multiaxis movement aue resource corneronly used and assembly, woolding, and painting applications.



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SCARA so pots.

SCARA nobots have two paearles horizontal motion and one Lineau FOI hotacy Joints motion. tol Vertical Joint

caltesian launtry Robots:

there mobots move along three Cx, y, z) similar to a cmc Machine. precise lineal motion, such Lineal ares nequeiring applications handling, packaging, and one maching. u material Delta robot

Dolta nobot contist of three aims plackform. they are known a contral connected For their high -speed and precision, making them i'deal.

parallel robot

Also known as parallel manipulator touttiple limbs connected to the end have parallel Lonkages. robot through and base effecto)

colla bolative robots :

are designed to work alongsis nobots a Should use Kapaco Safety. They Feature advanced programming to detect and respond to Sensols and spresence machine tending, and Quality inspection.



spend

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robot: MODIC of those robot are equipped with where For autonomous trovement within a track8 are \* Fach type of Industrial robot has WOLKSPALL. printation, making bond own strength applications depending on Factols such as different Fol require mont.

PAPT -C

7. preumatic Actuatos

A premoratic actuator system on a mechanism that uses compressed air garacase motion. Et typically consists of a prosmatic cycledal . Valves, tube and air compressor. Here's a brief explanation a semple skotch. COPTA along

component of presumation Actualties system.

Practication Cylinder ... Her come components nesponsible air enage that lineal For converting compressed motion. It consists of a cylindeical chambiel a poston inside.

Value - Value control to Flow of compressed into and out of the premouting cylinder on Flow to directional control valvo direct as 8 to piston in to either extend al retract Cylinder.



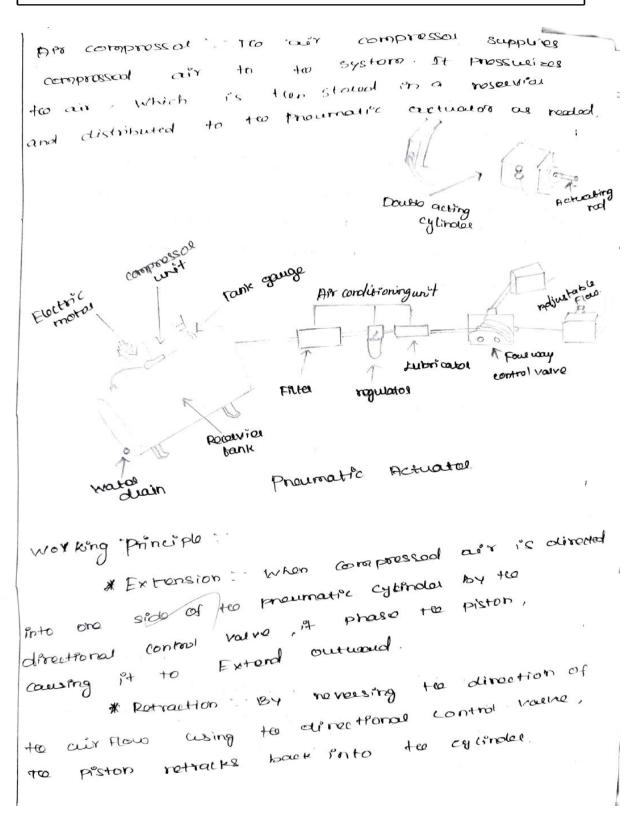
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cy li role \* Proumatic with a Piston inside connected to an air compressor. compressed air into side of to cylinder is one deroits prston extends. of the basic setup illustrates how promoting actuatous generates concer trotion cusing compressed our. making thom suitable for various applications is industries such as manufactueing, automation,

and nobotics.

8. Endeffectal of an nobot

Shoulder Joint something End

Joint a

ELLOW

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



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Base -

providing stability and support. It often contains the nobot's motols and drive rechanisms. Which allow of to move.

Arm

The airs is the main body of the robot,

consisting of recutiple segments carred links. These

Links are connected by Joints that allow the

arm to move in different about common

types of Joint includes.

an axops the to human shoulder.

\* Prismatic joint: Enables Linear motton

along a stagle alors, similar to a piston.

End effected.

ALSO known as the robot's hand the end effected is the took of attachment that interest with the work kpie or. End effecteds can very hidely with the work kpie or. End effecteds can very hidely deparating on the specific basic the mobot is deparating.

Examples tindude grippees, we ading performing "Examples tindude grippees, we ading to the ches, suction cups, and specialized tooks for the tasks (the Painting of Assembly,



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Actuator and motors : Actuatos one devices that convert onegy into mechanical motion. those motors are controlled by the monot's controller, which sould commands to dicate to desired Motton.

\* sensols play a crueial role proportial sensol . hobots by providing Feedback about the probots onveronment

own state. and its

\* position consol : provide information about to position and accontation of the robor joint.

Controlles

\* To controller is to brown of to Andustrial robot, nosponsible for linterpreting commonands. coordinating motion, and managing interactions with paripheral devices such us senson and methodie.

It typically includes hardware component Such all processous, marriedy, and input 1 output interface programming and controlling the robotts behaviour. Safoty featules :.

\* Industrial robots are equipped Safety features to protect human Valous prevent accidents those may riscude. with operators and

a creatorey stop buttons: Allows immediate halting of robot motion in case of emolgencies.

\* coursion dotaction systems . . gensols that detect conexpected collisions between the motor and its souloundings, triggering a safety me conse.



### 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		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	
20818106001	ABILASHA M	EC8092	21	21	15	15	99	15	16	100	22	22	100
		EC8701	21	21	17	17	97	16	17	_98_	17	17	98
		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
20818106002	ABINAYA S	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
		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	94	15	15	94	21	21	98
		OIC751	21	21	16	16	100	16	16	100	21	21	100
20818106004	BI ESSING X	EC8092	21	<u>21</u> 21	15	15	98	16	16	98	22	22	98
		EC8701	21	<u>21</u> 21	17	<del></del>	96	17	<del>10</del>	96	<del>22</del>	<del>22</del>	96
			21		13								
		EC8702	. – – – – –	<del>21</del>		14	95	13	14	95	20		94
		EC8711									60	60	97
		EC8751	21	22	16	16	92	16	16	92	16	16	92
		EC8761									60	60	98
		EC8791	20	21	13	14	92	14	15	92	21	21	94
		OIC751	21	21	16	16	92	16	16	92	21	21	92
20818106005	DHARSHNI V	EC8092	21	21	15	15	95	15	16	95	22	22	98
		EC8701	20	21	16	17	93	16	17	93	16	17	93
		EC8702	20	21	14	14	91	14	14	91	20	20	90
		EC8711									54	60	95
		EC8751	19	22	14	16	90	14	16	90	14	16	90
		EC8761									<u>-</u>	60	99
		EC8791	21	21	14	14	90	14	15	90	19	21	92
		OIC751	20	<u>21</u> 21	15	16	90	<del>14</del>	<del></del> 16	90	<del>13</del>	<u>21</u>	90
20818106007	DURGA DEVI B	EC8092	21	21	14	15	97	15	16	97	20	22	98
		EC8701	20	21	17	17	95	17	17	95	17	17	95
		EC8702	21	21	14	14	92	14	14	92	18	20	93
		EC8711									60	60	96
		EC8751	20	22	15	16	90_	15	16	90	15	16	90
		EC8761									60	60	99
		EC8791	21	21	14	14	90	14	15	90	21	21	94
		OIC751	20	21	16	16	98	16	16	98	20	21	98
20818106008	DURGA DEVI S	EC8092	21	21	15	15	97	15	16	97	22	22	98
		EC8701	21	21	17	17	96	17	17	96	17	17	96
		EC8702	20	21	14	14	98	14	14	98	20	20	97
		EC8711			'			:			60	60	98
		EC8751	22	22	16	16	98	16	16	98	<del></del> 16	16	98
													98
		EC8761									60	60	
		EC8791	21	21	14	14	96	15	15	_96_	21	21	94
		OIC751	21	21	16	16	98_	16	16	_98_	21	21	98
20818106009	HARIPRIYA M	EC8092	21	21	15	15	98	16	16	99	22	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	97
		EC8751	22	22		16	98		16	98	16	16	9

01-12-2022 Page 1/5 Anna University - COE





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

	EC8761									60	60	98
	EC8791	21	21	14	14	 96	15	 15	96	21	21	98
	OIC751	<del>21</del>	<del>21</del>	<del>14</del>	<u>14</u> 16	<del>9</del>	16	<del>15</del>	98	21	<del>21</del>	<del>9</del> 8
20818106010 ILAKKIYA B	EC8092	21	<del>21</del>	<del>16</del>	15	<del>90</del>	13	<del>16</del>	100	- 21	21	100
	EC8701	<del>21</del>	<del>21</del>	<del>13</del>	<del>15</del>	<del>99</del>	<del>13</del>	<del>16</del>	98	15	<del>22</del>	98
	EC8702	21	21	12		<del>-</del>					20	<del>-</del>
	EC8711			'	14		12	14	99	- <del>20</del>		
	EC8751					 98		 16	98	14		<sup>99</sup> 98
	EC8761		22	14	16		14				<del>16</del>	
	EC8791					 96				60	<del>60</del>	100
	OIC751	21 	<del>21</del>	<mark>12</mark> 	14		15	<sup>15</sup> 16	<del>96</del> 98	21		
20818106011 JAYA PRATHAP S	EC8092	20	<del>21</del>	<del>13</del>	16 15	<del>98</del>	<del>13</del>	<del>16</del> 16	<del>98</del>	21 	21	98 95
020818106011 JAYA PRATHAP S	EC8701	- <del>20</del>	<del>21</del>	<del> 2</del>	<del></del> -	<del>-</del>	<del>13</del>	<del>10</del>	<del>52</del> 85	15	<del>22</del> 17	 85
	EC8702	19	21	13	<del>1</del> 1	<del>-</del>			<del></del> 85		20	<del>-</del> 87
			21		14		13	14				
	EC8711									54	60	92
	EC8751	18	22	12	16	85	12	16	85	12	16	85 
	EC8761									54	60	96
	EC8791		21	12	14	88	12	<sup>15</sup>	- 88		21	90
2004040C042 IEVADA - C	OIC751	20	<del>21</del>	13	<u>16</u>	85	13	16	85		21	85
20818106012 JEYARAJ S	EC8092		21	14	15	<del>98</del>	14	16	99	21	22	98
	EC8701	21	21	15	17	85	- 15	17	85	15	17	85
	EC8702	21	21	13	14	89	13	14	89		20	91
	EC8711									60	60	95
	EC8751			14	16	88	14	16	88	14		88
	EC8761									60	60	100
	EC8791		<del>21</del>	13	<del>14</del> 16	88	- 14	<sup>15</sup>	88		<del>21</del>	92
2004040C043 KIDHTHIKA D	OIC751	21	<del>21</del>	14		<del>90</del>	- 14	16	90		21	90
20818106013 KIRUTHIKA R	EC8092	<del>21</del> 	21	<del>15</del>	<del>15</del>	<sup>95</sup>	16	<del>16</del>	95		22	95
	EC8701		21	<del>16</del>	17	<sup>95</sup>	- 16	17	95		17	95
	EC8702	21	21	14	14	91 	14	14	91		20	92
	EC8711									60	60	97
	EC8751		22	15	16	90	15	16	90	15		90
	EC8761									60	60	98 98
	EC8791		21	14	14	90	14	15	90	20	21	94
20040400044 MANO LEGGERAL MANO	OIC751	21	<u>21</u>	16	16	<del>90</del>	16	16	90	21	21	90
20818106014 MANOJ PRABHAKAR V	EC8092		21	14	<u>15</u>	<del>92</del>	14	16	92		22	95
	EC8701		21	16	17	<sup>85</sup>	16	17	85		17	85
	EC8702	20	21	14	14	86	14	14	86		20	87
	EC8711									57	60	92
	EC8751	18		14	16	86	14	16	86		16	86
	EC8761									57	60	98
	EC8791	- <del>19</del>	21	14	14	<u>86</u>		<sup>15</sup>	- 86		21	90
20040400046 MINKESI WANNA 2	OIC751	20	21	14	16	90	14	<del>16</del>	90	20	21	90
20818106016 MUKESH KANNA G	EC8092		21	14	<del>1</del> 5	85	13	16	- 85 -	21	22	90
	EC8701		21	16	17	80	16	17	80	16	17	80
	EC8702	21	21	14	14	84	14	14	84		20	85
	EC8711									54	60	91
	EC8751		2	12	16	82		16	82		16	82
	EC8761	20								54	60	98
			21	14	14	82	- 15	15	82	20	21	92
	EC8791			4.0							~ -	
	EC8791 OIC751	20	21	12	16	82	13	16	- 82 -	19	21	82
20818106017 MUTHU VIGNESH M	EC8791 OIC751 EC8092	20	21	15	15	99	15	16	99	21	22	100
20818106017 MUTHU VIGNESH M	EC8791 OIC751 EC8092 EC8701	20 21 21	21 21	15 17	15 17	99 94	<del>15</del>	16 17	99 94	21 17	22 17	100 94
20818106017 MUTHU VIGNESH M	EC8791 OIC751 EC8092 EC8701 EC8702	20	21	15	15	99	15	16	99	21 17 20	22 17 20	100 94 97
20818106017 MUTHU VIGNESH M	EC8791 OIC751 EC8092 EC8701 EC8702 EC8711	20 21 21 21 21	21 21 21	15 17 14	15 17 14	99 94 95	15 17 14 	16 17 14	99 94 95	21 17 20 60	22 17 20 60	94 97 98
20818106017 MUTHU VIGNESH M	EC8791 OIC751 EC8092 EC8701 EC8702 EC8711 EC8751	20 21 21	21 21	15 17	15 17	99 94	<del>15</del>	16 17	99 94	21 17 20 60 15	22 17 20 60 16	94 97 98 96
:0818106017 MUTHU VIGNESH M	EC8791 OIC751 EC8092 EC8701 EC8702 EC8711	20 21 21 21 21	21 21 21	15 17 14	15 17 14	99 94 95	15 17 14 	16 17 14	99 94 95	21 17 20 60	22 17 20 60	94 97 98

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Assessment Details Entered

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I	0 11	. 0000	 COLLEGE	OF ENGINEE	CIAL DIAID	TECHNOLOGY

		OIC751	21	21	15	16	96	15	16	96	21	21	96
	20818106018 NISHA M	EC8092			15				16	95		22	96
CC0792		EC8701	21		15		95	15	17	95		17	95
		EC8702	21					13	14		20	20	98
FCLY 15		EC8711									60	60	97
		EC8751	22	22	16	16	96	16	16	96	16	16	96
OCT   21   21   16   16   96   16   96   21   21   21   22   22   23   24   24   24   24   25   25   25   25		EC8761									60	60	99
OKC751   Z1   Z1   16   16   96   16   96   21   21   21   22   22   22   23   24   24   25   25   25   25   25   25		EC8791	21	21	14	14	98	14	15	98	21	21	98
ECA701   20		OIC751	21	21		16	96		16	96		21	96
ECRYOL   20	20818106019 NIVETHA K S	EC8092	21	21	15	15	94	16	16	94		22	94
ECTYOL		EC8701	20		16		91	16	17	91	16	17	91
ECRYS   22   22   15   16   00   15   16   00   15   16   00   00   00   00   00   00   00		EC8702	21		14	14	92	14	14	92	20	20	94
ECRYST   2		EC8711									60	60	96
ECRYST   2		EC8751	22	22	15	16	90	15	16	90	15	16	90
ECRY91   21													99
OKT51   20			21	21	14	14	90	14	15	90			94
													90
FCR701   21   21   17   17   88   17   17   88   17   17	0818106020 PONBHARATHI V												98
EC8702   21   21   14   14   88   14   14   88   19   20													
EC8711													84
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EC8751 20 22 16 16 94 16 16 94 16 16 6 60 60  EC8761 21 21 14 14 94 15 15 94 21 21 21 16 16 6 90 21 21 21 14 15 89 15 16 89 22 22 22 16 16 90 15 16 90 15 16 90 15 16 16 16 90 15 16 16 16 16 17 16 16 16 17 16 16 16 17 16 16 17 16 16 17 16 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 16 17 16 17 16 16 17 16 17 16 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 16 17 17 16 17 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18					'			'					96
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0818106024 RAJKUMAR K													98
EC8701 21 21 16 17 93 16 17 93 16 17 EC8702 20 21 13 14 92 18 20 EC8711 57 60 EC8751 20 22 15 16 90 15 16 90 15 16 EC8751 21 21 13 14 90 14 15 90 20 21 21 21 15 16 90 15 16 90 20 21 21 21 14 15 98 16 16 99 22 22 22 22 22 16 16 17 95 16 17 95 16 17 EC8701 21 21 14 14 98 14 14 98 20 20 20 21 EC8711 EC8702 21 21 14 14 18 98 14 14 98 20 20 20 EC8711 EC8751 22 22 16 16 96 16 16 96 16 16 EC8711 EC8751 22 22 16 16 96 16 16 96 16 16 EC8711 EC8761 21 21 14 14 98 14 14 98 20 20 20 EC8711 EC8761 22 22 16 16 16 96 16 16 96 16 16 EC8701 21 21 14 14 98 14 14 98 20 20 20 EC8711 EC8701 21 21 14 14 98 14 14 98 20 20 20 EC8711 EC8701 21 21 14 14 98 14 14 98 20 20 20 EC8711 EC8701 21 21 14 14 98 14 14 98 20 20 20 EC8711 EC8701 21 21 14 14 96 15 96 21 21 21 21 21 21 14 14 96 15 96 21 21 21 21 21 21 14 14 96 15 98 21 21 21 21 21 21 21 16 16 98 21 21 21	0818106024 PA IKLIMAD K												95
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EC8711													93
EC8751 20 22 15 16 90 15 16 90 15 16					'3			'3					96
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EC8791 21 21 13 14 90 14 15 90 20 21  OIC751 21 21 15 16 90 15 16 90 20 21  0818106026 SARITHARANIK EC8092 21 21 14 15 98 16 16 99 22 22  EC8701 21 21 16 17 95 16 17 95 16 17  EC8702 21 21 14 14 98 14 14 98 20 20  EC87151 22 22 16 16 96 16 16 96 16 16  EC8751 22 22 16 16 96 16 16 96 16 16  EC8761								13					90 99
OIC751 21 21 15 16 90 15 16 90 20 21  0818106026 SARITHARANIK EC8092 21 21 14 15 98 16 16 99 22 22  EC8701 21 21 16 17 95 16 17 95 16 17  EC8702 21 21 14 14 98 14 14 98 20 20  EC8711 22 22 16 16 96 16 16 96 16 16  EC8761				24									92
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01-12-2022 Page 3/5 Anna University - COE





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



## ANNA UNIVERSITY :: CHENNAI - 600 025 OFFICE OF THE CONTROLLER OF EXAMINATIONS

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

D TECHNOLOG	C VND.	NCINEEDING	I ECE OF	D COI	ND	. 0200	Mama	Code	Inc
D	GAND	NGINEERING	LEGE OF	R CO	- N P	: 9208	k Name	Code	Ins

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	EC8701	21	21	17	17	99	17	17	99	17	17	99

Page 4/5 Anna University - COE





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



## ANNA UNIVERSITY :: CHENNAI - 600 025 OFFICE OF THE CONTROLLER OF EXAMINATIONS

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

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

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	OIC751	21	21	15	16	94			94	20	21	98

01-12-2022 Page 5/5 Anna University - COE



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Assessment Details Entered
APRIL / MAY EXAMINATION, 2020 - EXAMINATIONS

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 hr2	IM 2	Attend hr 3	Tot hr 3	IM 3	Attend hr 4	Total hr4	IM 4
20816104001	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
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		GE6075	9	9	18	18	80	14	14	85	22	22	0
20816104002	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
20816104003	ASHWIN SARAVANAN RC	CS6008	5	13	12	21	24	16	21	60	21	21	0
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		CS6811									179	180	94
		GE6075	4	9	15	18	66	14	14	75	22	22	0
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		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
20816104006	CHARUMATHY B	CS6008	8	13	10	21	68	15	21	76	21	21	
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20816104010	GOMATHI AKILA D	CS6008	13	13	21	21	68	21	21	95	21	21	0
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Assessment Details Entered APRIL / MAY EXAMINATION, 2020 - EXAMINATIONS

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

	CS6801	7	13	17	18	26	19	22	39	21	21	0
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	GE6075	6	9	17	18	34	11	14	35	22	22	0
0816104016 KARTHIGA S	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
	GE6075	7	9	18	18	80	14	14	89	22	22	0
20816104017 KEERTHANA M	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
	GE6075	6	9	18	18	80	14	14	96	21	22	- 0
20816104018 MADHAN N	CS6008			15	21	52	15		57	21		
20816104018 MADHAN N			13					21			21	0
	CS6801	3	13	12	18	66	14	22	56	21	21	0
	CS6811									180	180	93
	GE6075	2	9	12	18	60	9	14	41	22	22	0
20816104019 MADHUMITHA A	CS6008		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
	GE6075	7	9	10	18	70	10	14	95	22	22	0
20816104020 MAHALAKSHMI M	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
	GE6075	6	9	10	18	65	9	14	57	22	22	0
20816104021 MOINUDEEN S	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
	GE6075	3	9	14	18	76	11	14	68	22	22	0
20816104022 MUTHU T	CS6008	10	13	19	21	56	19	21	95	21	21	
	CS6801	12	13	17	18	46	16	22	77	21	21	0
	CS6811									180	180	98
	GE6075	7				70					22	
20046404022 NANDUIN 2			<del>9</del>	16	18	70	10	14	81	22		0
20816104023 NANDHINI S	CS6008			19	21	72	20	21	93	21	21	0
	CS6801	10		16	18	86	19	22	91	21	21	0
	CS6811									180	180	99
	GE6075	7	99	15	18	80	11	14	97	21	22	0
20816104024 PAVITHRAN M	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
	GE6075	5	9	3	18	0	11	14	33	22	22	0
20816104025 PRASATH T	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
	GE6075	7	9	15	18	56	12	14	61	22	22	0
20816104026 PRAVIN VINO M	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
	GE6075	8	9	18	18	50	14	14	73	22	22	0
20816104027 PREETHA B	CS6008	10	13	18	21	88	19	21	99	21	21	0
TREETING	CS6801	10	13	16	18	78	19	22	84	20	21	0
	CS6811									180	180	97
	GE6075	7	9	16	18	80	13	14	96	22	22	0
20816104028 PREETHA T	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
	GE6075	8	9	18	18	70	14	14	93	21	22	0
20816104029 SABARI KRISHNAN S K	CS6008	6	13	19	21	74	15	21	96	21	21	0
Ecololic Company Compa												0

Page 2/4 Anna University - COE





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### ANNA UNIVERSITY :: CHENNAI - 600 025 OFFICE OF THE CONTROLLER OF EXAMINATIONS

Assessment Details Entered APRIL / MAY EXAMINATION, 2020 - EXAMINATIONS

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

		GE6075	4	9	18	18	74	12	14	83	22	22	0
20816104030	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
20816104031	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
20816104032	SENTHIL N P	CS6008	5	13	17	21	60	15	21	85	21	21	0
20010104032		CS6801		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
20816104033	SHREEDHAR V	CS6008		13		21	86		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
20816104034	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
20816104035	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							HOUSE LIVE COMM		180	180	98
		GE6075	5	9	14	18	82	14	14	97	22	22	0
20816104036	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
20816104038		CS6008	8	13	20	21	92	17	21	52	21	21	0
20010104038		CS6008 CS6801	<del>8</del>	<del>13</del> 13	17		68	17	21	81	21	<del>21</del> 21	0
						18							
		CS6811									179	180	98
		GE6075	5	9	17	18	82	12	14	53	22	22	0
20816104039	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	99	17	18	82	14	14	97	22	22	0
20816104040	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
20816104041	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
20816104042	SWETHA A	CS6008		13		21			21		0	21	0
200 10 104042		CS6801		13		18	0		22		· <del>0</del> ·	21	
		CS6811											
		GE6075	2	9	0	18			14		0	22	0
20816104043	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
20816104044	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

Page 3/4 Anna University - COE







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me: 9208 - N P R COLLEGE OF ENGINEERING AND TECHNOLOGY

		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	KISHORE KUMAR D	CS6008	2	13	17	21	50	10	21	69	21	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	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

01-09-2020



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#### 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

HoD-Mech

(Mrs. C. Kalpana, AP/CSE)

(Dr. T. Saravana Kannan)

Name	Designation	Signature
Dr.T. Saravana Kannan	HoD/MECH	DCL W
Mr. G. Sundararajan	AP/MECH	G. for the
Mr. T. Balasubramani	AP/MECH	T. But
Mrs. K.R. Kavitha	AP/MECH	That.
Mr.K. Sathishkumar	AP/MECH	X. VI
Mr. R. Dheivendran	AP/MECH	R. Dem
Mr. S. Latsu kumar	AP/MECH	C. Truster
Mr. B. Gopi	AP/MECH	B. grun
Mr.M. Shaanmaadhuran	AP/MECH -	M. Jum.

Name of the student	Year and Section	Signature
Mr. M. Gowthaman	IV MECH	Mouthan
Ms. G. Maha Lakshmi	IV MECH	Gr. Mahard
Mr. S. Rakesh	IV MECH	Shakeih
Ms. K. Shobana	IV MECH	K Shebany
Mr. M. Velpackiyaraj	IV MECH	M. Velpackivara

NPRCET-MECH

Class Committee Meeting-I 2022-2023(ODD)







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#### 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.

NPRCET-MECH

Page 1 of 4

Class Committee Meeting-I 2022-2023(ODD)



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- 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:-

NPRCET-MECH

Page 2 of 4

Class Committee Meeting-I 2022-2023(ODD)



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 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 <sup>st</sup> Unit in progress	No issues	-	Mym
2.	ME8791	Mechatronics	Mrs. K. R. Kavitha	AP/ Mech	1 <sup>st</sup> Unit in progress	No issues	-	Trist.
3.	ME8793	Process Planning and Cost Estimation	Mr. G. Sundararajan	AP/ Mech	1 <sup>st</sup> Unit in progress	Good	-	G. forth
4.	OEI751	Robotics	Mr. T. Balasubramani	AP/ Mech	1 <sup>st</sup> Unit in progress	Need Important Question s	Given to the Students	T. Bu
5.	ME8097	Non Destructive Testing and Materials	Mr. S. Latsu Kumar	AP/ Mech	1 <sup>st</sup> Unit in progress	No issues	-	& Louis
6.	ME8073	Unconventional Machining Process	Mr. K. Sathish Kumar	AP/ Mech	1 <sup>st</sup> Unit in progress	No issues	-	£.9 M

NPRCET-MECH

Page 3 of 4

Class Committee Meeting-I 2022-2023 (ODD)







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7.	ME8711	Simulation and Analysis Laboratory	Mr. T. Balasubramani	AP/ Mech	Introduction classes over	No issues	-	4. Dix
8.	ME8781	Mechatronics Laboratory	Mr. B. Gopi	AP/ Mech	2 Experiments completed	No issues	-	B. ary
9.	ME8712	Technical Seminar	Mr. R. Dheivendran	HoD/ Mech	Introduction classes over	No issue	=	R.Dor

#### 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	TISTED
2.	Chairperson	Mrs. C. Kalpana	AP/CSE	1
		Mr. G. Sundararajan	AP/Mech	4. with
		Mr. T. Balasubramani	AP/Mech	8. But
	Faculty Members handling the Subjects	Mrs. K.R. Kavitha	AP/Mech	tameter
		Mr.K. Sathishkumar	AP/Mech	W. Sh.s
3.		Mr. R. Dheivendran	AP/Mech	K. Den
		Mr. S. Latsu kumar	AP/Mech	8, Junes
		Mr. B. Gopi	AP/Mech	B.954
		Mr.M. Shaanmaadhuran	AP/Mech	Mohn
		Mr. M. Gowthaman	IV Mech	M Coutham
	200	Ms. G. Maha Lakshmi	IV Mech	Gr. Maher
4.	Student	Mr. S. Rakesh	IV Mech	S. Rakesh
	Representatives	Ms. K. Shobana	IV Mech	R. Shebing
		Mr. M. Velpackiyaraj	IV Mech	M. Valpacl

Chairperson

(Mrs. C. Kalpana, AP/CSE)

HoD/MECH

(Dr.T.Saravana Kannan)

NPRCET-MECH

Page 4 of 4

Class Committee Meeting-I 2022-2023(ODD)





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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

(Mrs. C. Kalpana, AP/CSE)

(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 <u>Photo Gallery</u>



IV-Mech Students for Industrial Vist at TAFE, Madurai



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JM Friotech India Pvt Ltd (JMI) G27, SIPCOT Industrial Park, Katrambakkam Village, Irrungattukottal, Chennal-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, Irrungattukottal, Chennal-602 105.

G27, SIPCOT Industrial Park, Katrambakkam Village, Irrungattukottai, Chennal-Nadu 602105 E-mail: gestamp@gmail.com website : http://www.lmiUn



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JM Frictech India Pvt Ltd (JMI)

G27, SIPCOT Industrial Park, Katrambakkam Village, Irrungattukottal, Chennal-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 Frictech India Pvt. Ltd, G-27, SIPCOT Industrial Park, Irrungattukottal, Chennal-602 105.

M. hum

G27, SIPCOT Industrial Park, Katrambakkam Village, Irrungattukottal, Chennal-Nadu 602105 E-mail: gestamp@gmail.com website : http://www.lmiUn



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JM Frictech India Pvt Ltd (JMI)

G27, SIPCOT Industrial Park, Katrambakkam Village, Irrungattukottal, Chennal-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.

JM Frictech India Pvt. Ltd, G-27, SIPCOT Industrial Park, Irrungattukottal,

M. hum

Chennal-602 105.

G27, SIPCOT Industrial Park, Katrambakkam Village, Irrungattukottal, Chennal-Nadu 602105 E-mail: gestamp@gmail.com website: http://www.jmillin



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Cell: 98425 - 32220 98430 - 83074



TIN No.: 33915023027

Plot No.32. (S.V.D.Nagar) Rajappa Nagar, Kovil Pappakudi (P.o.) 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.

Por Oslan Body Buildons R. Annalustenia + Partasi

ELEGANCE IN SHAPE AND EXCELLENCE IN QUALITY IS OUR WATCH WORD



### College of Engineering & Technology



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

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

Cell: 98425 - 32220 98430 - 83074



TIN No. 33915023027

Plot No.32, (S.V.D. Nagar) Rajappa Nagar, Kovil Pappakudi (P.o.) MADURAI - 625.018

Date: 30.01.2023

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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)



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#### **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 hydrulic 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)
- (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)
- (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)





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## 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 encode.(8)
  - (ii) Explain the two object recognition technique 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 elecric 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)



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## 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**

- 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**

- 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)
- (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)





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## EVALUATION PROCESS OF UNIVERSITY REVALUATION PREVIEW FORM





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## **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.
- Application for Photocopy of answer scripts must be submitted to the Principal of the concerned College on or before 26-09-2022
- 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.
- Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.
- No application will be accepted beyond the due date prescribed.
- 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	The state of the s
_		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 Yitle		2000000
06	EC8095		Grade	Result
		visi design	В	PASS

9. Recommendations of the HOD

Signature of the HOD

Signature of the Candidate

Station: Natham

Date: 27-10-2022

Signature of the Principal





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

## INSTRUCTION TO CANDIDATES

- 1. Fee for Revaluation is Rs.400/- per answer script and should be paid at the College only.
- Application for Revaluation must be submitted to the Principal of the concerned College on or before 27-10-2022
- 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.
- Incomplete/defective application will be rejected and the fee will neither be refunded nor adjusted towards any fee due to the University.
- No application will be accepted beyond the due date prescribed.
- 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	ACMA DOCUME
2.	Register Number	ASMA ROSHAN T
		920819106007
10.0	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
	No. of Subjects applied for Revaluation	MAT 2022
		1
-	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)		
06	EC8095	VLSI Design (9208363)	Grade	Result
Recommo		of the HOD	В	PASS

9. Recommendations of the HOD

Signeture of the HOD

Signature of the Candidate

Station: Natham

Date: 27- 10-22

Signature of the Principal







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## **REVALUATION PHOTO COPY**

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OFFICE OF THE CONTROLLER OF EXAMINATIONS
Provisional Results of April / May Examination,2022(Reval./Photo.).

Page 4/4

\$	Subject Code ->	EC8004	EC8095	EC8651	EC8652	EC8691	MGSS91
Reg. Number	Stud. Name	Grade	Grade	Grade	Grade	Grade	Grade
920819106003	AJITH KUMAR K		NC NC	NC	0.00	NC	0.500
920819106006	ARAVINTH RAJI K			NC		110	
920819106007	ASMA ROSHAN T		and British				
920819106010	BLESSY JEBAMANI G		-			NC	
920619106011	CHRISTIYA I			7-27-7-27		B+	
920819106015	DHINESH M	NC		В	NC		
920819106016	DIVESH V					NC	
920819106017	DIVYA DHARSHINI S				NC	В	NC
920819106020	JOSEPHRUMSBILT R		NC			В	
920819106022	KAMALESH K				NC		
920819106025	KIRTHICK N	NC			В		
920819106028	MADHUMITHA P	NC				В	
920819106030	MANOJ KUMAR S	NC			NC		
920819106031	MOHAMED ASIF M	8			NG		100
920819106032	MOHAMEDIBRAHIM J		В				THE THE
920819106035	MURUGANATHAN M					NC	NC
920819106036	MUTHU MOORTHY M	В	В				
920819106037	MUTHU RANJANI V		B+				
20819106039	NAGA VISHWA G	В					
20819106044	POWSIKA DEVI K	В		NC			
20819106045	PRABHU C					NC	
20819106048	RAMVIGNHESH R P	В	NC		NC	NC	
20619106052	SANO NISHA N	NC	TANK .			NC	
20819106053	SARAN GV	NC	199				
20819106054	SASMITHA PARVEEN K	NC	В				
20819106055	SHAM HIRUTHIK R	NC	В	NC	В		
20819106058	SHINY RESHMA J		В				
20819106059	SINGARABRINDHA N		NC				
20819106061	SOUNDHARYA S		The state of the s			NC	
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20819106064	THARSHITHA S					В	THE REAL PROPERTY.
20819106065	THARUNKUMAR M				NC		
0819106067	VENKATESH P			B		NC	TO PAY TO THE
0819106068	VIKRAM S			В		NC	1
0819106302	SHABIRATAJ J	NC	NC			AND THE PERSON NAMED IN	

W - Withdrawal I - Inadequate Attendance

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

Anna University - COE





## **MARK SHEET NAME CORRECTION**

	जारी असतीय स्टेट वैंक जारी असी के मानी Issuing Branch No. 11066 कोड़ के /CODE No. 11066 Tel No. 04544-245246	<b>a</b>	DEMAND	ड्राफ्ट ) DRAFT NIVERSITY CHENNAI	Key: QACHIY Sr. No: 65178	1 2 1 0 D D M M	2 0 2 0 Y Y Y Y 9 3 3 3 6 3 3 1 2 3 1 2 1
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SESHA	IOI 000514495570 Name of Applicant	TOUR LA DE	ANAM	g.v	The senior and	FLEET SAINER	2 1
		3 महीने के लिए वैध FOR 3 MONTHS ONLY	STATE BANK OF INDIA अदाकर्ता शाखा / DRAWEE कोइ क्रं . /CODE No: 00800	- Markon	HYBRANCH A STANDARD OF A STAND	वकारियों द्वारा इस्ताव्यस्ति होने NOT WALD UNIS (स्त्राप्ति होने	E STAEL. J
1	VALID ONLY IF COMPUTER PRINTED VALID	<b>"49557</b> (	)"• 00000 5000	000514	16		,





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## ANNA UNIVERSITY CHENNAI 600 025 Office of the Controller of Examinations

Lr. No. 9208/COE/C.36 /2020 - 21129

Date: |2.11.2020

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 .... Sharts .... - Sent - Reg.

Ref: Your Lr. NO. 08/NPRCET/EXAM/OCE-2020, dr: 14/10/2020, \*\*\*\*\*

	Name	Course & Branch	Sem.	Month and year of Exam	Folio No. & Date
920816104009	DURGA DEVI.	BE/	I	Nov 2016	AUV1587014/NC
		CSE	11	APR'2017	AUU 1578674/NC
			17	APR 2018	AUSI535797/N
			V	Nov 2018	AURI283585/AV
			VI	APR 2019	Aug 1360189/10
			Vn	Nov 2019	-
			/		3/11/20
	920816104009	920816104009 DURGA DEVI.	920816104009 DURGA DEVI. BE/ CSE		920816104009 DURGA DEVI. BE/ I NOV 2016 II APR'2017 III NOV 2017 IV APR'2018 V NOV 2018 VI APR'2019 VII NOV 2019

Yours faithfully,

for CONTROLLER OF EXAMINATIONS

Encl.: 7 No(s) of Grade Sheety

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## NPR

## College of Engineering & Technology



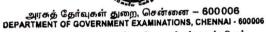
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சான்றிதழ் வ.எண் Certificate Sl. No. **SEC** 

3406299



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 Examin	ation and obtained t	he followin	ng marks :			
	in in 36 JEC)		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*	கருத்தியல் THEORY	075	100	100	ONE ZERO ZERO	(P)
	செய்முறை PRACTICAL	025				
	சமூக அறிவியல் SOCIAL SCIENCE		100	097	ZERO NINE SEVEN	(P)
	மொத்த TOTA		500	482	FOUR EIGHT TWO	(PASS)

பிறந்த தேதி / DATE OF BIRTH 09.06.99	பதிவெண்/REGISTER NO. 1612637	ம.அ.ப.குறியீட்டெண் & நா C1200551	π / TMR CODE NO & DATE 23.05.2014
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## College of Engineering &



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## 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:

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
		n (Rupees One Thousand Only) in favour nations, Anna University, Chennai.	₹.2100
		DD No: 495570	Dated 12.10.2020 at State Bank of India , Natham.

Thanking you.

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)

GE OF

With regards,

RARAJAN. Dr. J.SUNDA Principal

#Engineering & Technolog Dindigul (Dt) - 624 401.

Administrative Office: No.20, Thiruvalluver Salai, Dindigul - 624,003







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## College of Engineer



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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

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 Ito VIII Semester, Consolidated Statement of Grades, and Provisional Certificate 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, Consolidated and Provisional	Name of the student in grade sheets has to change		
1	920817114049	MURALIMANOKARAN V	MURALI MANOGARAN V		
	in favour of Contr	(Rupees Four Thousand four hundred roller of Examinations, Anna University,			
1.	Union Bank, Vac	Rs. 4400			
2.	DD No :508909	For Rs. 300 dated 06.12.2021 at City			

Thanking you.

With regards

Date: 27.12.2021

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
- 6. Provisional Certificates.

Dr. J.SUND

Principal

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

4M-624 40



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சான்றிதத் வகன் Certificate SI No. SEC

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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

Contain MURALI MANOGARAN V

**MAR 2015** 

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:

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5.0		066	ZERO SIX SIX	(P)
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	500	391	THREE NINE ONE	(PASS)
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பிறந்த தேதி / DATE OF BIRTH	பதிவெண்/REGISTER NO.	ம.அப.குறியீட்டெண் & நாள் / TMR CODE NO.& DATE
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Murali manogaran

**் 9** மாநிலப் பள்ளித் தோவுகள் குழுமம் (இடைநிலை), தமிழ்நாடு SECRETARY STATE BOARD OF SCHOOL EXAMINATIONS(SEC), TAMILNADU



## NPR





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இடைநிலைப் பள்ளி இறுதி வகுப்புச் சான்றிதழ் **பொதுத் தேர்**வில் தேர்ச்சி பெற ஒவ்வொரு பாடத்திலும், 100–க்குக் குறும் அளவு முப்ப*த்தை*ந்து மதிப்பெண்கள் பெறுதல் வேண்டும். அறிவிபல் பாடத்தில் "சுருத்தியலில் 75–க்கு 20 மதிப்பெண்களும் மற்றும் செய்முறைத் தேர்வில் 25*–க்கு* 15 மதிப்பெண்களும் பெறுதல் வேண்டும். இது பகுதி முறையில் தேர்வெழுதித் தேர்ச்சி பெறுவ*த*ற்கும் பொருத்தும்.

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

HEADMISTRESS FIR IV Vidhya Parthi Hr. Sec School



## $\mathbf{NPR}$











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COLLEGE OF THE CANDIDATE  N. P. R. COLLEGE OF ENGINEERING AND TECHNOLOGY  R.E. MICHAELINANOKARAN V  COLLEGE OF STUDY  COLLEGE OF STUDY  R.E. MICHAELINANOKARAN V  COURSE  COUR	sign and Fabrication Project			App				rematics - II	Engineering Mat	NASSA.	3 6
COLLEGE OF THE CANDIDATE  MURALIMANOKARAN V  COLLEGE OF THE CANDIDATE  N P R COLLEGE OF ENGINEERING AND TECHNOLOGY  COLLEGE OF STUDY  RE. MICHAGINE Engineering  COURSE  COURS	AD/CAM Laboratory			APR 3					Technical Englis	15555	3 5
COURSE CO	ofessional Communication		06	App				hanics	Engineering Mo	CESSO	2 5
COLLEGE OF STUDY  N. P. R. COLLEGE OF ENGINEERING AND TECHNOLOGY  PROGRAMME & BRANCH  COURSE  Thermal Engineering. II  AND  MBS/12  MBS/12  MBS/13  MB	elding Technology		8	NOVO	_	_	_	nence and Engineering	Em inonmental S	868233	2
COLLEGE OF STUDY  COLLEGE OF STUDY  COURSE  COURSE  COURSE  COURSE  Engineering Chemistry COURSE  COUR	ydraulics and Pneumatics		8	APP		_		Electronics and Instrumentation Engineering	Base Floringal	GE8161	10
COLLEGE OF STUDY  AME OF THE CANOIDATE  N P R COLLEGE OF ENGINEERING AND TECHNOLOGY  COLLEGE OF STUDY  R.E. Mcchanical Engineering COURSE COUR	gat and Mass Transfer		8	App		_	_	and Python Programming Laboratory	Private Solvins	BSS161	10
COLLEGE OF STUDY  ALEXANCH  COLLEGE OF STUDY  COLLEGE OF STUDY  COLLEGE OF STUDY  COLLEGE OF STUDY  ALEXANCH  COLLEGE OF STUDY  COLLEGE OF STUDY  COLLEGE OF STUDY  ALEXANCH  COLLEGE OF STUDY  COLLEGE OF STUDY  COLLEGE OF STUDY  ALEXANCH  COLLEGE OF STUDY  COLLEGE OF STUDY  COLLEGE OF STUDY  ALEXANCH  COLLEGE OF STUDY  ALEXANCH  COLLEGE OF STUDY  COLLEGE OF STUDY  ALEXANCH  COLLEGE	nite Element Analysis		8	I AV		_	_	nistry Laboratory	Engineering in	PHSISI	01
COLLEGE OF STUDY  COLLEGE OF S	omputer Aided Design and Manufacturing		8	I A A		_			Engineering was	MA8151	10
COLLEGE OF STUDY  PROGRAMME & BRANCH  COURST TITLE  COURSE  CO	esign of Transmission Systems	rate a	05	NA.	_	_		Sugar-	Communicative	HS8151	01
COURSE COURSE Engineering Chemistry  COURSE COURSE Engineering Chemistry  COURSE Problem Solving and Python Programming  COURSE Problem Solving and Python Programming  COURSE Problem Solving and Python Programming  COURSE TITLE  COURSE TITL	etrology and Measurements Laboratory		05	1	_	_	_	and state of the s	Engineering Cira	GE8152	01
COURSE CO	hermal Engineering Laboratory		05	144				district.	Problem Solving	GE8151	01
COLLEGE OF STUDY  REALIMANOKARAN V  ALEXO SALVANIA  ALEXO	inematics and Dynamics Laboratory		05	/				misus	Engineering Che	CY8151	01
COLLEGE OF STUDY  RE. McChanical Engineering  COURSE	utomotive Systems		05	144		# #				T	T
NURALIMANOKARAN V  NURALIMANOKARAN V  N P R COLLEGE OF ENCINEERING AND TECHNOLOGY  B.E. Mechanical Engineering  C LG GP MALE  OUTSET TITLE  COURSE TITLE  COURSE TITLE  COURSE TITLE	hermal Engineering- II		+	=	×	>			The same of		8
NURALIMANOKARAN V  NPR COLLEGE OF ENGINEERING AND TECHNOLOGY  NORTH YEAR OF LAST APPEARANCE   April 2021		1	ES .	01 54			-	COURSETTILE		PROGRAMMA	
NTR COLLEGE OF ENGINEERING AND TECHNOLOGY  NEW COLLEGE OF ENGINEERIN		COURSE	13	MOVE				E. Mochanica		DOODAMNE A	T
MURALIMANOKARAN V  MURALIMANOKARAN V  MURALIMANOKARAN V  MURALIMANOKARAN V  MALE  MA		TH & YEAR OF LAST AT	1		1	+		Engineering		COLLEGE OF	
MURALINANOKARAN V  CONSOLIDATED TEMENT OF GRADES  920817114049  MALE  MALE	April 2021	200 400						PR COLLEGE OF ENGINEER	1	NAME OF THE	
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CONSOLIDATED TEMENT OF GRADES  920817114049		REGISTER	1					NOKARANV	MINI	O GOODE HOME	
SOLIDATE: CAMINATIONS SOLIDATE: CAMINATION GRADES	9208	MEN	20	03.00					2	5	
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## **ESSANNA 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.

23/09/2021

Controller of Examinations



## NPR

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

SI.No: MA 4134690

Folio No. AUM3514465

NAME OF THE CANDIDATE	MURALIMANO	KARAN 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 COLLEC	SE OF ENG	INEERING A	AND TECHNOLOGY		REGULATIONS	2017 (CBCS)

PROGRAMME & B.E. Mechanical Engineering

SEM. NO.	COURSE	COURSE TITLE	CREDITS	GRADE	POINT	RESULT
07	ME8711	Simulation and Analysis Laboratory	2	0	10	PASS
07	ME8712	Technical Seminar	1	0	10	PASS
07	ME8781	Mechatronics Laboratory	2	0	10	PASS
08	IE8693	Production Planning and Control	3	Α	8	PASS
08	ME8811	Project Work	10	0	10	PASS
08	MG8591	Principles of Management	3	0	10	PASS
		* * * End of Statement * * *				

X VI VII Ш IV Semester 5 16 Credits Registered 5 16 **Credits Earned** 30 28 **Grade Points Earned** 10.000 9.625 Grade Point Average (GPA)

Cumulative Credits Earned

RA - Reappearance is Required

SE - Sports Exemption

\* Absent for University Examination

Medium of Instruction: ENGLISH



184

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CONTROLLER OF EXAMINATIONS/C

23-09-2021

SIGNATURE OF THE CANDIDATE

Cumulative Grade Point Average (CGPA)





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=	5 (19) 2	GRADE SHEE	T		i i
400 400 400 400 400 400 400 400 400 400	PROCESS THROUGH KNOWLEDGE	SI No: MA 3294702	Folio No.	AUN1260025	Carrie o

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

SINO: MA 3294702

Folio No. AUN1260025

PEDECES INCOME NOVELENA	SI.NO: WA 32	94/02	distribution of the second	FOIIO NO.		
NAME OF THE CANDIDATE	MURALIMANOKAR	AN V			REGISTER NO.	020917114049
DATE OF BIRTH	22-SEP-1999 GEN	NDER MALE	MONTH & YEAR OF EXAMINATION	NOA 5050	DATE OF PUBLICATION	28-AUG-2021
COLLEGE OF STUDY	N P R COLLEGE OF	F ENGINEERING	AND TECHNOLOGY		REGULATIONS	2017 (CBCS)
PROGRAMME &	B.E. Mechanical En	gineering				

PROGRA BRANCH	MME &	B.E. N	Mechanical E	ngineerin	9					,		,	
SEM. NO.	COUR				C	OURSE TIT	LE	4-25		CREDITS	LETTER GRADE	GRADE POINT	RESU
05	ME8	594	Dynamic	s of Machi	ines					4	В	6	PAS
07	ME8	073			achining Pro	ocesses				3	Α	8	PAS
07	ME8	097	Non Desi	tructive Te	esting and E	Evaluation				3	0	10	PAS
07	ME8	791	Mechatro	onics						3	0	10	PAS
07	ME8	792	Power PI	ant Engin	eering					3	A+	9	PAS
07	ME8	793	Process	Planning a	and Cost Es	stimation				3	0	10	PAS
07	OIE	751	Robotics							3	A+	9	PAS
				* *	* End of S	Statement	* * *						
Semester   Semester										110.7			
			4							11	K in		
			5										
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										114			
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			ak Lim							Ulida	6		
			1							1.0			
			110,000,000,000	ssion Nov	ember / De	ecember 2	, the Examir 020 were co I (Re-Exams	nducted in	10				
Semest	er		1	11	III	IV	V	VI	VII	VIII	1	x	X

		Feb	ruary 2021	July 2021	(He-Exams)			14 4	2.11	
Semester	1	П	III	IV	V	VI	VII	VIII	IX	х
Credits Registered		L/1=15.	hv	الدليان	4		18	Jun		
Credits Earned	المشاما		m		4		18			
Grade Points Earned			in .		6		56			
Grade Point Average (GPA)					6.000		9.333			
Cumulative Credits Farned	163	Cumul	ative Grade	Point Avera	ge (CGPA)	7.44	Mediu	m of Instru	ction : ENG	LISH

RA - Reappearance is Required

\* Absent for University Examination

Date 23-09-2021



CONTROLLER OF EXAMINATIONS VG

SIGNATURE OF THE CANDIDATE







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



# ANNA UNIVERSITY, CHENNAI - 25 B.E. DEGREE EXAMINATIONS GRADE SHEET SI.No: MA 3389241 Folio No. AU02605572

1.22/16/20/00/00/00/00/00/00/	SI.No: MA	2209	241		1 0110 110.	T	- 706111010
NAME OF THE	MURALIMANO	KARAN V				REGISTER NO.	920817114049
CANDIDATE			LIMIT .	MONTH & YEAR OF	APR 2020		15-AUG-2020
DATE OF BIRTH	22-SEP-1999	GENDER	MALE	EXAMINATION		PUBLICATION	COAT (CDCS)
COLLEGE OF STUDY	N P R COLLE	GE OF ENG	INEERING	AND TECHNOLOGY		REGULATIONS	

RANCH	AMME &		Mechanical Engineering  COURSE TITLE	CREDITS	LETTER GRADE	GRADE POINT	RESUL
NO.	COL		COURSE III LE	2	0	10	PAS
06	ME	8682	Design and Fabrication Project	4	A	8	PAS
06		8693	Heat and Mass Transfer	1	0	10	PAS
06	HS8	3581	Professional Communication	2	0	10	PAS
06	ME	3681	CAD/CAM Laboratory	3	A+	9	PAS
06	ME	3692	Finite Element Analysis	3	A+	9	PAS
06	ME	3651	Design of Transmission Systems	3	A+	9	PAS
06	PR	3592	Welding Technology	3	Α	8	PAS
06	ME	3694	Hydraulics and Pneumatics	3	Α	8	PAS
06	ME	3691	Computer Aided Design and Manufacturing				
			* * * End of Statement * * *				
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					3 30		
- 1						-	
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									100	
Semester	1	П	111	IV	v	VI	VII	VIII	IX	X
Credits Registered	1.5			100		24	N .		. 4	
Credits Earned						24				
Grade Points Earned						81				
Grade Point Average (GPA)						8.792				
Cumulative Credits Earned	141	Cumul	ative Grade	Point Averag	je (CGPA)	7.24	Medi	um of Instru	tion : ENG	ISH

RA - Reappearance is Required

09-12-2020

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SE - Sports Exemption

\* Absent for University Examination



SIGNATURE OF THE CANDIDATE



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## College of Engineering & Technology



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

SI.No: MA 3909767 Folio No. AUP1170200 REGISTER NO. 920617114049

CANDIDATE	MURALIMANOKARAN V	REGISTER NO.	220077 174040
DATE OF BIRTH	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)

PROGR	RAMME &	B.E. N	Mechanical	Engineerin	g								
SEM. NO.	COU			MINICOL V	C	OURSE TIT	LE	14 . 19		CREDITS	LETTER GRADE	GRADE POINT	RESULT
02	GE8	292	Enginee	ring Mecha	anics					4	В	6	PASS
03	CE8				nd Machine	ery				4	В	6	PASS
05	ME8				mamics Lat					2	0	10	PASS
05	OAT		The second second	tive System						3	B+	7	PASS
05	ME8				asurements	3				3	В	6	PASS
05	ME8	593	Design	of Machine	Elements					3	В	6	PASS
05	ME8		Therma	I Engineeri	ng- II					3	В	6	PASS
05	ME8		Therma	Engineeri	ng Laborate	ory				2	0	10	PASS
05	ME8	594		cs of Mach						4	U	0	RA
05	ME8					Laboratory	1			2	0	10	PASS
					End of C	Statement							PASS PASS PASS RA PASS
-	Registere	d	1	11	4	IV	V 22 18	VI	VII	VIII		×	x
	Earned			4	4		55				+	_	
Grade I	Points Earn	ied		6	6		33						

Cumulative Credits Earned

RA - Reappearance is Required

Grade Points Earned
Grade Point Average (GPA)

W-Withdrawal

6.000

SE - Sports Exemption

7.500

\* Absent for University Examination

Medium of Instruction : ENGLISH

Chennai - 600 025.

Date 15-07-2020

SIGNATURE OF THE CANDIDATE

6.000

Cumulative Grade Point Average (CGPA)



6.92







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



50	15	OLM		20/10		RADE S	HEEI	Folio I	No Al	UQ111656	6		2
NAME OF	F THE			28418 KARAN V	557			101101	10.	REGISTE	RNO	9208171	14049
DATE OF	ATE	22-SEP		GENDER	MALE		YEAR OF	APR	2019	DATE	OF	22-JUN	-19
COLLEGI		NPRO	OLLEC	SE OF ENG	INEERING A					REGULAT	- 1/	2017 (CI	BCS)
STUDY				al Engineerii									200
PROGRA BRANCH	William Ca				9	A 1000 C T T T T T T T T T T T T T T T T T	DISTRICT AND	100 C	District Co.		LETTER	GRADE	
SEM. NO.	COURS				C	OURSE TITLE	Englished 1		La Talla	CREDITS	GRADE	POINT	RESUL
02	GE829	92	Engin	eering Mech	anics					4	U	0	RA*
02	MA825	51	Engin	eering Math	ematics - II					4	В	6	PAS
03	CE839	94	Fluid	Mechanics a	and Machine	ry				4	U	0	RA
03	MA835	53	Trans	forms and P	artial Differe	ntial Equation	ons			4	В	6	PASS
04	ME846	52	Manu	facturing Te	chnology Lal	ooratory - II				2	0	10	PASS
04	ME849	91	Engin	eering Meta	llurgy					3	В	6	PASS
04	MA845	52			nerical Meth					4	В	6	PASS
04	CE839	95	Streng	gth of Materi	als for Mech	anical Engir	neers			3	В	6	PASS
04	ME845	51	Manu	facturing Te	chnology - II					3	В	6	PASS
04	CE838	31	Streng	gth of Materi	als and Fluid	Mechanics	and Machi	nery Labor	atory	2	0	10	PASS
04	HS846	31	Advar	nced Readin	g and Writing	g				1	B+	7	PASS
04	ME849	93	1500005400051000	nal Engineer	Carlotte Committee Committ					3	B B+	6 7	PASS
04	ME849	92	Kinem	natics of Mad	chinery					3	D+	'	1
-													x
Semeste	er		1	II	III	IV	V	VI	VII	VIII	'	x	
Credits F	Registered			8	8	24							
Credits E	Earned			4	4	24							
Grade Po	oints Earned	1		6	6	64							
Grade Po	oint Average	(GPA)		6.000	6.000	6.833							1
Cumulat	ive Credits I	Earned	91	Cumula	ative Grade P	oint Average	(CGPA)	6.89	Med	dium of Ins	truction	: ENGLISH	ı

W-Withdrawal

SE - Sports Exemption

\* Absent for University Examination





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18-09-19

SIGNATURE OF THE CANDIDATE



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## **ANNA UNIVERSITY, CHENNAI - 25 DEGREE EXAMINATIONS GRADE SHEET**



SI.No: MA 2394116 Folio No. AUR1052246 NAME OF THE CANDIDATE MURALIMANOKARAN V 920817114049 REGISTER NO MONTH & YEAR OF EXAMINATION DATE OF PUBLICATION 22-SEP-99 NOV 2018 DATE OF BIRTH GENDER MALE 12-JAN-19 COLLEGE OF N. D. D. COLLEGE OF ENGINEEDING AND TECHNOLOGY 2017 (0000)

STUDY	GE OF	NPR	COLLEGE	OF ENGIN	EERING A	ND TECHN	IOLOGY			REGULA	TIONS	2017 (C	BCS)
PROGR	RAMME &	B.E. M	echanical E	ingineering			-						- 24
SEM. NO.	COU				C	OURSE TITI	E			CREDITS	LETTER GRADE	GRADE POINT	RESU
01	GE8	152	Engine	ering Graph	ics					4	В	6	PAS
03	ME8	381	0.000	er Aided M		wing				2	A+	9	PAS
03	ME8	391	Engine	ering Therm	odynamics					4	В	6	PAS
03	MA8	353	Transfo	rms and Pa	rtial Differe	ntial Equat	tions			4	U	0	RA
03	HS8	381	Interper	sonal Skills	/Listening a	and Speaki	ng			1	0	10	PAS
03	CE8			echanics ar						4	U	0	RA
03	EE8	353		al Drives ar						3	В	6	PAS
03	ME8			cturing Tec	and the second second					2	0	10	PAS
03	EE8		The state of the s	al Engineer cturing Tec	•	tory				2	ОВ	10 6	PAS PAS
					* End of S	Statement							
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			Jan.										
			411										
	5-24-b	AND	JAUR	A STATE	1	15,82			4 (4)			£	
Semes	ster		1	Ш	Ш	IV	V	VI	VII	VIII	1	х	X
Credit	s Registere	ed	4	4	25						1		
Credit	s Earned		4		17								
Condo	Dainta Ear	nod											

**Grade Points Earned** 57 Grade Point Average (GPA) 6.000 7.529 Cumulative Grade Point Average (CGPA) **Cumulative Credits Earned** 7.03 Medium of Instruction: ENGLISH 59

RA - Reappearance is Required

W-Withdrawal

SIGNATURE OF THE CANDIDATE

SE - Sports Exemption

\* Absent for University Examination







CONTROLLER OF EXAMINATIONS i/c





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## **ANNA UNIVERSITY, CHENNAI - 25** DEGREE EXAMINATIONS



5	3		B.E.	G	RADE S		ONS					
	OF THE	SI.No: MA	48666	30			Folio	No. AU	S1536218		<u> </u>	2
CAND	IDATE N	MURALIMANOR			T MONITH 8	YEAR OF	ETE TO		REGISTE	-	92081711	4049
		22-SEP-99	GENDER	MALE	EXAMI		APR	2018	PUBLICA PUBLICA		29-JUN	-18
STUD		PR COLLEG	E OF ENGIN	EERING A	ND TECHNO	LOGY			REGULAT	TIONS	2017 (C	BCS)
PROG BRAN	CH E	B.E. Mechanical	Engineering									
SEM. NO.	COURS			C	OURSE TITLE	li lesse i			CREDITS	LETTE		RESULT
02	BE8253	Basic	Electrical, El	ectronics ar	nd Instrumer	itation Eng	ineering		3	В	6	PASS
02	GE8291		onmental Scie			3	J		3	В	6	PASS
02	GE8292	2 Engin	eering Mecha	anics					4	U	0	RA
02	HS8251	3	nical English						4	В	6	PASS
02	MA8251		eering Mathe	matics - II					3	U B+	7	PASS
02	PH8251 BE8261	0.0000000000000000000000000000000000000	ials Science Electrical, Electrical	actronics ar	nd Instrumen	tation Eng	ineering L	aboratory	2	0	10	PASS
02	GE826		eering Practic			nation Ling	meening L	aboratory	2	A+	9	PASS
					itatement *		V	VII	VIII		IX	×
Seme	ester	1	11	III	IV	V	VI	VII	VIII	-	IX	Х
Credi	ts Registered		25				<u>Life IV</u>					
Credi	ts Earned		17									
Grade	Points Earned	d	44									
Grade	Point Average	e (GPA)	7.000									
Cumu	lative Credits	Earned 38	Cumula	tive Grade F	oint Average	(CGPA)	6.92	Med	dium of Ins	truction	n : ENGLIS	Н

**Cumulative Credits Earned** RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

SIGNATURE OF THE CANDIDATE

\* Absent for University Examination





CONTROLLER OF EXAMINATIONS







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



	OF THE	SI.No			55808	3		Follo	NO. AU	T1631503		,	y.
CANDI	DATE	MURALIN	MANOK	CARAN V						REGISTE	R NO.	9208171	14049
DATE	OF BIRTH	22-SEP	-99	GENDER	MALE		& YEAR OF MINATION	JAN	2018	PUBLICA		05-FEB	3-18
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01	CY815	51	Engine	eering Che	mistry					3	А	8	PAS
01	GE815	and the state of		-	and Python	Programmi	ng			3	В	6	PAS
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Cum	ulative Credits	s Earned	21	Cumu	lative Grade	Point Avera	ge (CGPA)	6.86	Me	dium of Ins	struction	: ENGLISH	Н

RA - Reappearance is Required

W-Withdrawal

SE - Sports Exemption

\* Absent for University Examination









## College of Engineering &



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

епетирода от втеми 12536997 // Севтинская в No. нас

## 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 முர்ளி மனோகரன் வி **ட**ுர்ச் 2017 MURALI MANOGARAN V MAR 2017

மேல்நிலைப் பள்ளிக் கல்விப் பொதுத் தோவெழுதிய மேற்காண் தேர்வர் கீழ்க்காணும் மதிப்பெண்களைப பெற்றுள்ளார் என்று சான்றளிக்கப்படுகிறது.

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

ulti.ii. SUBJECT	கருத்தியல் THEORY 150	செய்முறை PRAC. 50		பெற்ற மதிப்பெண்கள் 2 MARKS OBTAINED FO	
து App TAMIL			174	ONE SEVEN FOUR	(P)
ஆங்கீலம் ENGLISH			143	ONE FOUR THREE	(P)
இயற்பியல் PHYSICS	081	050	131	ONE THREE ONE	(P)
வேறியியல் CHEMISTRY	085	050	135	ONE THREE FIVE	(P)
கணிப்பொறி இயல் COMPUTER SCIENCE	118	050	168	ONE SIX EIGHT	(P)
ടങ്ങിളവിധാ MATHEMATICS	4-76		098	ZERO NINE EIGHT	(P)

மொத்த மதிப்பெண்கள் / TOTAL MARKS : ZERO EIGHT FOUR NINE தோவென் / ROLL NO. அ. ம. ப. குறியீட்டெண் & நாள் / TMR CODE NO. & DATE பிறந்த தேதி / DATE OF BIRTH 228253 G297576 12.05.2017 22.09.1999 நிரந்தரப் பதிவேண் / PERMANENT REGISTER NO. பயிற்று மொழி / MEDIUM OF INSTRUCTION பாடத்தொகுப்பு எண் / GROUP CODE **ENGLISH** 1710218253

(22\DGL435\2229)

பள்ளியின் பெயர் / NAME OF THE SCHOOL

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

v. Murali manogaran

மாநிலப் பள்ளித் தேர்வுகள் குழுமம் (மேல்நிலை), தமிழ்நாடு MEMBER SECRETARY

STATE BOARD OF SCHOOL EXAMINATIONS (HR.SEC), TAMILNADU







## MARKSHEET AFTER NAME CORRECTION







NAME (	OF THE DATE	DW INDIVIDUE	MANOGA	91690 ARAN V	96		4	Folio No	AUP1170	0200/N		9208171	14040
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03	CE83	394		echanics and		,			ANTA S	4	В	6	PASS
05	ME85	501		gy and Meas						3	В	6	PASS
05	ME85		Thermal	Engineerin	g- II				MIN	3	В	6	PASS
05	ME85		Design	of Machine I	Elements					3	В	6	PASS
05	ME85		Dynamic	cs of Machin	nes				TEN ST	4	U	0	RA
05	ME85	1879-1870		I Engineerin		у				2	0	10	PASS
05	OATS			tive System						3	B+	7	PASS
05	ME85	100	Metrolog	gy and Mea	surements I	aboratory				2	0	10	PASS
05	ME85	511	Kinema	tics and Dyr	namics Labo	oratory			1068	2	0	10	PASS
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20 20		Principles of Production Pl Project Work	Robotics Simulation and Ana Mechatronics Labo Technical Seminar	Power Plant E Process Plann Unconvention	Welding Technology Professional Commu CAD/CAM Laborato Design and Fabricatio	Finite Elem Heat and M Hydraulics	Thermal Engineering Automotive Systems Kinematics and Dyna Thermal Engineering Metrology and Meass Design of Transmissi	ST APPEARANCE		GRADES
C, in the results assigned to the course  Office the fine point corresponding to the grades of a. in member of all control results at \$200.77  In the control of the contro	Classification: FIRST CLASS	Principles of Management Principles of Management Production Planning and Control Project Work *** End of Statement *** Cumulative Grade Point Average: 7.79	Non-Destructive Testing and Evaluation Robotics Simulation and Analysis Laboratory Mechatronics Laboratory Technical Seminar	Power Plant Engineering Process Planning and Cost Estimation Unconventional Machining Processes No. Destroy. The Control of the Processes No. Destroy. The Processes	Welding Technology Professional Communication CAD/CAM Laboratory Design and Fabrication Project	Computer Aided Design and Manufacturing Finite Element Analysis Heat and Mass Transfer Hydraulics and Pneumatics	Thermal Engineering- II Automotive Systems Kinematics and Dynamics Laboratory Thermal Engineering Laboratory Metrology and Measurements Laboratory Design of Transmission Systems	COURSE TITLE		CHENNAI - 600 025  ATIONS FOIL  ENT OF GRADES  920817114049
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07	ME8791	Mechat		3					3	0	10	PAS
07	ME8792	Power	Plant Engir	neering					3	A+	9	PASS
07	ME8793		s Planning	and Cost I	Estimation				3	0	10	PASS
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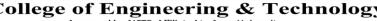
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