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SASURIE COLLEGE OF ENGINEERING

Approved by AICTE, NewDelhi. Affiliated to Anna University, Chennai

Near NH544, Coimbatore Bypass, Near Vijayamangalam Tollgate,Tirupur638056

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION-1

CURRICULAR ASPECTS

SUBMITTEDBY

IQAC

INTERNAL QUALITY ASSURANCE CELL

SASURIE COLLEGE OF ENGINEERING

Academic Flexibility(30)

Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	Robotics for Rehabilitation Engineering				
Resource Person:	Mr.Thangavel, HR/Manager, L.G.Balakrishnan & Bros Ltd, Coimbatore- 638459.		Mr.R.Rameshkumar, Trainer, L.G.Balakrishnan & BrosLtd, Coimbatore- 638459.		
Date of conduct from:	09.12.2019	**To:**	14.12.2019	**Duration:**	36 Hours
Organized Department:	MECHANICAL ENGINEERING				
Participant Year:	2/4	**Semester:**	EVEN	**No.of Students Registered:**	98
Venue:	Lecture hall of II & III year MECH				

TABLEOFCONTENT

DEPARTMENT OF MECHANICAL ENGINEERING

Ref: SCE / MECH /Students / VAC / 2019 – 2020 / EVEN   02.12.2019

CIRCULAR

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Mechanical Engineering and IQAC of our Institution in association with L.G.Balakrishnan & Bros Ltd, is organizing a **Value Added Course (VAC)** for the students of II, III and IV year of MECH on the title **"Robotics for Rehabilitation Engineering"** from **09.12.2019** to **14.12.2019**. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

- Students, who are securing **more than 70% on total score in the VAC test** and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended.

Resource Person Details	Mr.Thangavel, HR/Manager, L.G.Balakrishnan & Bros Ltd, Coimbatore- 638459.	Mr.R.Rameshkumar, Trainer, L.G.Balakrishnan & Bros Ltd, Coimbatore- 638459.
Venue	**Lecture hall of II & III year MECH**	

V-P-

HoD/MECH

PRINCIPAL

Copy to:
1. Chairman & Secretary for information
2. Principal office
3. IQAC Co-Ordinator
4. Class In charges - II, III & IV-Year MECH
5. II, III & IV-Year MECH Students
6. MECH Notice Board
7. Department File

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
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Vijayamangalam - 638 056, Tirupur (Dt).

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INSTITUTIONS

DEPARTMENT OF MECHANICAL ENGINEERING

Ref: SCE / MECH /Students / VAC / 2019 – 2020 / EVEN   02.12.2019

SYLLABUS - VALUE ADDED COURSE
"Robotics for Rehabilitation Engineering"

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours   **Academic Year : 2019 -2020 /EVEN**

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Rehabilitation Engineering	3	09.12.2019
2	Fundamentals of Robotics	3	09.12.2019
3	Human Anatomy and Physiology	3	10.12.2019
4	Assistive Technologies in Rehabilitation	3	10.12.2019
5	Rehabilitation Robotics Applications	3	11.12.2019
6	Sensors and Actuators in Rehabilitation Robotics	3	11.12.2019
7	Human-Machine Interface Design	3	12.12.2019
8	Robotics in Neurorehabilitation	3	12.12.2019
9	Exoskeletons in Rehabilitation	3	13.12.2019
10	Rehabilitation Robotics and Machine Learning	3	13.12.2019
11	Clinical Assessment and Outcome Measures	3	14.12.2019
12	Ethical and Social Implications	3	14.12.2019
	Total Hours	36	-

After successful completion of 36 Hours VAC, the assessment test for the VAC titled "Robotics for Rehabilitation Engineering" will be conducted on 14.12.2019.

VAC Coordinator   **HoD/MECH**

/ **Dr.M.VIJAYAKUMAR** ME., Ph.D.,
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DEPARTMENT OF MECHANICAL ENGINEERING

STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

"Robotics for Rehabilitation Engineering"

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours   **Academic Year : 2019 -2020 /EVEN**

S.No.	Reg No.	Name of the Student	Year / Branch
1.	732417114001	ALBERT STEEPHEN S	III/MECH
2.	732417114003	ANITH KUMAR V	III/MECH
3.	732417114004	ARAVINDAKUMAR G	III/MECH
4.	732417114006	BALAJI C S	III/MECH
5.	732417114007	BALAJI G	III/MECH
6.	732417114010	DHAYANIDHI R	III/MECH
7.	732417114011	DHINESH KUMAR K	III/MECH
8.	732417114012	GANESHKUMAR P	III/MECH
9.	732417114013	GOWTHAM M	III/MECH
10.	732417114014	HARIHARAN M	III/MECH
11.	732417114016	HARI KRISHNA M	III/MECH
12.	732417114017	JAGADEESHKUMAR M	III/MECH
13.	732417114019	KALIRAJ R	III/MECH
14.	732417114020	KAMALESH P	III/MECH
15.	732417114023	KAVINKUMAR V	III/MECH
16.	732417114025	KRISHNAMOORTHY P	III/MECH
17.	732417114026	LOGAPRIYAN E	III/MECH
18.	732417114028	MURUGANANDAM K	III/MECH
19.	732417114029	MUTHUPANDI M	III/MECH
20.	732417114031	MYTHERAYAN K	III/MECH
21.	732417114032	NITHISH KUMAR R	III/MECH
22.	732417114033	POORAGAVAN P	III/MECH
23.	732417114036	RAVIKUMAR R	III/MECH
24.	732417114037	SANJAY P	III/MECH
25.	732417114038	SANTHANAM P	III/MECH
26.	732417114039	SATHYANARAYANAN S	III/MECH
27.	732417114040	SHEIK BARIDH A	III/MECH
28.	732417114041	SRIDHAR S	III/MECH
29.	732417114042	SUGANRAJ P	III/MECH
30.	732417114043	SURIYAPRAKASH P	III/MECH

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STUDENTS PARTICIPATION LIST - VALUE AIDED COURSE

S.No.	Reg No.	Name of the Student	Year / Branch
31.	732417114045	VASANTHA KUMAR S	III/MECH
32.	732417114047	VELMURUGAN S	III/MECH
33.	732417114048	VENGATESAN M	III/MECH
34.	732417114049	VETRIVEL S	III/MECH
35.	732417114050	VIGNESHWARAN R	III/MECH
36.	732417114052	VIJIPRIYADHARSAN P	III/MECH
37.	732417114053	VISHNUKUMAR S	III/MECH
38.	732417114301	HEYSON K J	III/MECH
39.	732417114501	VIGNESH K S	III/MECH
40.	732417114503	DHANANJAYAN K	III/MECH
41.	732417114701	ARUN KUMAR K	III/MECH
42.	732417114702	MYTHILI G	III/MECH
43.	732417114703	JAMES JAYA PRAKASH G	III/MECH
44.	732417114704	VIJAY ANAND S	III/MECH
45.	732417114705	PRAVEEN KUMAR R	III/MECH
46.	732417114706	AJITHA A	III/MECH
47.	732417114707	THIRUMOORTHINANDHA R	III/MECH
48.	732416114002	ADARSH C M	IV/MECH
49.	732416114003	AJITHKUMAR K	IV/MECH
50.	732416114004	ALEXPANDIYAN R	IV/MECH
51.	732416114005	ANANTHASUBRAMANIYAM R	IV/MECH
52.	732416114006	BHARATH M	IV/MECH
53.	732416114007	BHARATHI T	IV/MECH
54.	732416114008	DEENADHAYAL R	IV/MECH
55.	732416114009	DHANASEKARAN P	IV/MECH
56.	732416114010	DHANASEKARAN S	IV/MECH
57.	732416114011	DHILEEPKUMAR P	IV/MECH
58.	732416114012	DILIP K	IV/MECH
59.	732416114013	DINESH KUMAR T	IV/MECH
60.	732416114014	ELANGOVAN M	IV/MECH
61.	732416114015	ELANGOVAN T	IV/MECH
62.	732416114016	GOWTHAM L	IV/MECH
63.	732416114017	JAGATHEESH G	IV/MECH
64.	732416114018	JINU JALEEL	IV/MECH
65.	732416114019	JOBIN C J	IV/MECH
66.	732416114021	KATHIRESH B	IV/MECH
67.	732416114022	KAVIN P	IV/MECH

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STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

S.No.	Reg No.	Name of the Student	Year / Branch
68.	732416114023	KAVINKUMAR S	IV/MECH
69.	732416114024	LAKSHMANAN S	IV/MECH
70.	732416114026	MOHAMMED FAZIL V	IV/MECH
71.	732416114027	NAVANEETHAKRISHNAN K	IV/MECH
72.	732416114028	NEELAMANIKANDAN S	IV/MECH
73.	732416114029	NIKHIL RAJ	IV/MECH
74.	732416114030	PRAVEENKUMAR S	IV/MECH
75.	732416114031	RABERT D	IV/MECH
76.	732416114032	RAGUNATH K	IV/MECH
77.	732416114033	RAHUL RAMACHANDRAN	IV/MECH
78.	732416114034	RAMANUJ DUBEY A	IV/MECH
79.	732416114035	RANJITH S T	IV/MECH
80.	732416114036	RANJITHKUMAR A	IV/MECH
81.	732416114037	SAFREENA NOOR ARIMBRATHODI	IV/MECH
82.	732416114038	SANTHOSH KUMAR K	IV/MECH
83.	732416114040	SATHYAKUMAR S	IV/MECH
84.	732416114041	SELVAMANI G	IV/MECH
85.	732416114042	SELVAMANIKANDAN K	IV/MECH
86.	732416114043	SHANMUGAM R	IV/MECH
87.	732416114044	SHANMUGANATHAN	IV/MECH
88.	732416114045	SRIDHAR CHANDHRU H	IV/MECH
89.	732416114046	SUBASH S	IV/MECH
90.	732416114047	THARANITHARAN S	IV/MECH
91.	732416114049	VAIRAMUTHU S	IV/MECH
92.	732416114050	VASANTH M	IV/MECH
93.	732416114051	VENKATESAN K	IV/MECH
94.	732416114052	VIGNESH A	IV/MECH
95.	732416114055	VIJAY PRASATH E	IV/MECH
96.	732416114302	PARVEZ A	IV/MECH
97.	732416114303	VIGNESH S	IV/MECH
98.	732416114502	MOHANKUMAR P	IV/MECH

VAC Coordinator

HoD/MECH

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DEPARTMENTOFMECHANICALENGINEERING

STUDENTS ATTENDANCE LIST-VALUE ADDED COURSE

"Robotics for Rehabilitation Engineering"

From 09.12.2019 to 14.12.2019 (6 days)

Duration:36 Hours   Academic Year:2019-2020/EVEN

S.No	Reg No.	Name of the Student	Year/ Branch	09.12.2019		10.12.2019		11.12.2019		12.12.2019		13.12.2019		14.12.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	732417114001	ALBERTSTEEPHENS	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	Albeens
2.	732417114003	ANITHKUMARV	III/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	V.A
3.	732417114004	ARAVINDAKUMARG	III/MECH	/	/	A	A	/	/	/	/	/	/	/	/	30	A Kg
4.	732417114006	BALAJICS	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	Balaji·CS
5.	732417114007	BALAJIG	III/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	G.Belg
6.	732417114010	DHAYANIDHIR	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	R.Dh.
7.	732417114011	DHINESHKUMARK	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	K.Dinesh.Kg
8.	732417114012	GANESHKUMARP	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	P.Geu Thg
9.	732417114013	GOWTHAMM	III/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	M.G
10.	732417114014	HARIHARANM	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	M.Hariharan
11.	732417114016	HARIKRISHNAM	III/MECH	/	/	A	A	/	/	/	/	/	/	/	/	30	M.hay2iz
12.	732417114017	JAGADEESHKUMARM	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	M.J
13.	732417114019	KALIRAJR	III/MECH	/	/	/	/	/	/	A	A	/	/	/		30	R.Ka

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STUDENTSATTENDANCELIST-VALUEADDEDCOURSE

S.No	Reg No.	Name of the Student	Year/ Branch	09.12.2019		10.12.2019		11.12.2019		12.12.2019		13.12.2019		14.12.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
14.	732417114020	KAMALESHP	III/MECH	/	/	/	A	1	/	/	/	/	/	/	/	33	P. Kamala
15.	732417114023	KAVINKUMARV	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	V. Kavin
16.	732417114025	KRISHNAMOORTHYP	III/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	P. Tharshan
17.	732417114026	LOGAPRIYANE	III/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	Logapriya
18.	732417114028	MURUGANANDAMK	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	K. Murugan
19.	732417114029	MUTHUPANDIM	III/MECH	/	/	/	/	/	A	/	/	/	/	/	/	33	M. Muthuvel
20.	732417114031	MYTHERAYANK	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	K.Mytherayan
21.	732417114032	NITHISHKUMARR	III/MECH	/	/	/	/	/	A	/	/	/	/	/	/	33	Nishanth
22.	732417114033	POORAGAVANP	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	P. Pooragavan
23.	732417114036	RAVIKUMARR	III/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	R. Ravikumar
24.	732417114037	SANJAYP	III/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	P. Sanjay
25.	732417114038	SANTHANAM P	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	P. Santhana
26.	732417114039	SATHYANARAYANANS	III/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	S. Sathyanarayanan
27.	732417114040	SHEIKBARIDHA	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	A. Sheikbar
28.	732417114041	SRIDHAR S	III/MECH	/	/	/	/	/	/	/	A	/	/	/	/	33	S. Jay
29.	732417114042	SUGANRAJP	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	P. Suganraj
30.	732417114043	SURIYAPRAKASHP	III/MECH	/	/	A	A	/	/	/	/	/	/	/	/	30	P. Siyaprks
31.	732417114045	VASANTHAKUMARS	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	S. Vasanthakumar
32.	732417114047	VELMURUGANS	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	S. Velmurugan

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STUDENTSATTENDANCELIST-VALUEADDEDCOURSE

S.No	Reg No.	Name of the Student	Year/ Branch	09.12.2019 FN	09.12.2019 AN	10.12.2019 FN	10.12.2019 AN	11.12.2019 FN	11.12.2019 AN	12.12.2019 FN	12.12.2019 AN	13.12.2019 FN	13.12.2019 AN	14.12.2019 FN	14.12.2019 AN	No.of Hours Attended	Signature of the Student
33.	732417114048	VENGATESANM	III/MECH	/	/	/	/	/	A	/	/	/	/	/	/	33	M.Vijh
34.	732417114049	VETRIVELS	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	Y.Vestrl
35.	732417114050	VIGNESHWARANR	III/MECH	/	/	A	A	/	/	/	/	/	/	/	/	30	R.Vighy
36.	732417114052	VIJIPRIYADHARSANP	III/MECH	/	/	/	/	/	/		/	/	A	/	/	33	Vhy
37.	732417114053	VISHNUKUMARS	III/MECH	/	(	/	/	/	/	/	/	/	/	/	/	36	S.V.Lil.rJ
38.	732417114301	HEYSONKJ	III/MECH	/	/	/	/	/	/	/	A	/	/	/	/	33	He-
39.	732417114501	VIGNESHKS	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	ICS.Vhioh
40.	732417114503	DHANANJAYANK	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
41.	732417114701	ARUNKUMARK	III/MECH	/	/	/	/	A	A	/	/	/	/	/	/	30	K.Ar
42.	732417114702	MYTHILIG	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	Ca.Mythilig
43.	732417114703	JAMESJAYAPRAKASHG	III/MECH	/	/	/	/	/	/	/	/	A	A	/	/	30	
44.	732417114704	VIJAYANANDS	III/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	2.Vijays
45.	732417114705	PRAVEENKUMARR	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	P.Lautt
46.	732417114706	AJITHAA	III/MECH	/	)	/	/	/	/	/	A	/	/	/	/	33	
47.	732417114707	THIRUMOORTHINANDHAR	III/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
48.	732416114002	ADARSHCM	IV/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	Aalaye
49.	732416114003	AJITHKUMARK	IV/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	Vamy.k
50.	732416114004	ALEXPANDIYANR	IV/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	R.Qan
51.	732416114005	ANANTHASUBRAMANIYAMR	IV/MECH	/	/	/	/	/	/	/		/	/	/			

Dr.M.VIJAYAKUMAR ME.,Ph.D
PRINCIPAL
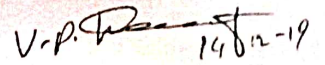SASURIE COLLEGE OF ENGINEERING,
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STUDENTSATTENDANCELIST-VALUEADDEDCOURSE

S.No	Reg No.	Name of the Student	Year/ Branch	09.12.2019		10.12.2019		11.12.2019		12.12.2019		13.12.2019		14.12.2019		No.of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
52.	732416114006	BHARATH M	IV/MECH	/	/	/	/	/	A	/	/	/	/	/	/	33	M.Bt.
53.	732416114007	BHARATHI T	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	B.Bhate
54.	732416114008	DEENADHAYALR	IV/MECH	/	/	/	/	A	A	/	/	/	/	/	/	30	P.Dev
55.	732416114009	DHANASEKARANP	IV/MECH	/	/	/	/	/	/	/	A	/	/	/	/	33	P.Dhan
56.	732416114010	DHANASEKARANS	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	S.dm
57.	732416114011	DHILEEPKUMARP	IV/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	p.Dh
58.	732416114012	DILIPK	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	k.Da
59.	732416114013	DINESHKUMART	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	T.Dipky
60.	732416114014	ELANGOVANM	IV/MECH	/	/	A	A	/	/	/	/	/	/	/	/	30	M.Ehi Du
61.	732416114015	ELANGOVANT	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	T.Elangova
62.	732416114016	GOWTHAML	IV/MECH	/	/	/	/	/	/	/	A	/	/	/	/	33	Gowtham
63.	732416114017	JAGATHEESHG	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	G.ha
64.	732416114018	JINUJALEEL	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	Sn:
65.	732416114019	JOBINCJ	IV/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	Joby
66.	732416114021	KATHIRESHB	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	B.Kathiresh
67.	732416114022	KAVINP	IV/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	P.Idn
68.	732416114023	KAVINKUMARS	IV/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	S.Ki
69.	732416114024	LAKSHMANANS	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	S.Dm.
70.	732416114026	MOHAMMEDFAZILV	IV/MECH	/	/	A	A	/	/	/	/	/	/	/	/	30	Jagvi

Dr.M.VIJAYAKUMAR BE., Ph.D.,
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STUDENTSATTENDANCELIST-VALUEADDEDCOURSE

S.No	Reg No.	Name of the Student	Year/ Branch	09.12.2019		10.12.2019		11.12.2019		12.12.2019		13.12.2019		14.12.2019		No. of Hours Attended	Signature of the Student
				FN	'AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
71.	732416114027	NAVANEETHAKRISHNANK	IV/MECH	/	(	/	A	/	/	/	/	/	/	/	/	33	
72.	732416114028	NEELAMANIKANDANS	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
73.	732416114029	NIKHILRAJ	IV/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	
74.	732416114030	PRAVEENKUMARS	IV/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	
75.	732416114031	RABERTD	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
76.	732416114032	RAGUNATHK	IV/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	
77.	732416114033	RAHULRAMACHANDRAN	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	,	36	
78.	732416114034	RAMANUJDUBEYA	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
79.	732416114035	RANJITHS	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
80.	732416114036	RANJITHKUMARA	IV/MECH	/	/	/	/	/	/	/	A	/	/	/	/	33	
81.	732416114037	SAFREENANOOR ARIMBRATHODI	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
82.	732416114038	SANTHOSHKUMARK	IV/MECH	/	/	/	/	/	/	/	/	/	/	,	/	36	
83.	732416114040	SATHYAKUMARS	IV/MECH	/	/	/	/	/	/	/	/	/	A	/	/	33	
84.	732416114041	SELVAMANIG	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
85.	732416114042	SELVAMANIKANDANK	IV/MECH	/	/	/	/	/	/	A	A	/	/	/	/	30	
86.	732416114043	SHANMUGAMR	IV/MECH	/	/	/	A	)	/	/	/	/	/	/	/	33	
87.	732416114044	SHANMUGANATHAN	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
88.	732416114045	SRIDHARCHANDHRU H	IV/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	
89.	732416114046	SUBASHS	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	

Dr.M.VIJAYAKUMAR

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				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
90.	732416114047	THARANITHARANS	IV/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	
91.	732416114049	VAIRAMUTHUS	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	26	
92.	732416114050	VASANTH M	IV/MECH	/			/	/	/	A	A	/	/	/	/	30	
93.	732416114051	VENKATESANK	IV/MECH	/	/	/	/	/	/		A	/	/	/	/	33	
94.	732416114052	VIGNESH A	IV/MECH	/	/	/	/	/	/	/	A	/	/	/	/	33	
95.	732416114055	VIJAYPRASATHE	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
96.	732416114302	PARVEZA	IV/MECH	/	/	/	A	/	/	/	/	/	/	/	/	33	
97.	732416114303	VIGNESH S	IV/MECH	/	/	/	/	/	/	/	/	/	/	/	/	36	
98.	732416114502	MOHANKUMARP	IV/MECH	/	/	/	/	/	A	/	/	/	/	/	/	33	

VAC Coordinator

HoD/MECH

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Report on Value Added Course

Title:	Robotics for Rehabilitation Engineering		
Resource Person:	Mr.Thangavel, HR/Manager, L.G.Balakrishnan & Bros Ltd, Coimbatore- 638459.	Mr.R.Rameshkumar, Trainer, L.G.Balakrishnan & Bros Ltd, Coimbatore- 638459.	
Date of conduct from :	09.12.2019	To: 14.12.2019	Duration: 36 Hours
Organized by :	MECHANICAL ENGINEERING and IQAC in association with L.G.Balakrishnan & Bros Ltd		
Academic Year:	2019 – 2020	Semester:	EVEN
Participant Year:	II, III, IV Year MECH	No. of Students Participated :	98
Venue:	Lecture hall of II & III year MECH		

Outcome of Value Added Course (VAC)

At the end of the Course, Students can be able to

- Apply fundamental principles of robotics to design and develop robotic systems specifically tailored for rehabilitation purposes.
- Evaluate existing assistive technologies and integrate robotics to enhance their capabilities for rehabilitation.
- Design and implement rehabilitation robotics solutions for specific clinical applications and scenarios.
- Develop wearable robotic exoskeletons, considering design considerations and addressing challenges in their development.
- Evaluate and consider ethical implications related to the use of robotics in healthcare.

Assessment Process

- Students, who are securing more than 70% on total score in the VAC test and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

No. of students successfully completed the VAC course is **98 Students** based on the above assessment process.

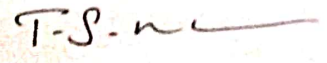VAC Co-ordinator   HoD/ MECH   Principal

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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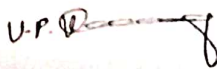
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Vijayamangalam, Tiruppur

SASURIE INSTITUTIONS

DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

NITHISH KUMAR R, III MECH

This is to certify that **Mr./Ms** .... has

successfully completed the **Value Added Course** titled **"Robotics for Rehabilitation Engineering"** Organized by the

Department of Mechanical Engineering in association with IQAC of Sasurie College of Engineering and

L.G.Balakrishnan Bros Ltd from **09.12.2019** to **14.12.2019** (6 Days).

Co-ordinator

Head of the Department

Principal

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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Vijayamangalam-638 056, Tiruppur (Dt)

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Vijayamangalam, Tiruppur

SASURIE INSTITUTIONS

DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

SURIYAPRAKASH P, III MECH

This is to certify that Mr./Ms .... has

successfully completed the **Value Added Course** titled **"Robotics for Rehabilitation Engineering"** Organized by the

Department of Mechanical Engineering in association with IQAC of Sasurie College of Engineering and

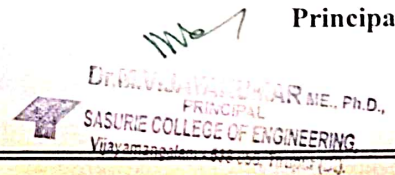**L.G.Balakrishnan Bros Ltd** from **09.12.2019** to **14.12.2019 (6 Days).**

Co-ordinator

Head of the Department

Principal

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
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Vijayamangalam - 638 056, Tiruppur (Dt)

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SASURIE INSTITUTIONS   Vijayamangalam, Tiruppur.

DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

LAKSHMANAN S,   IV MECH

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Department of Mechanical Engineering in association with IQAC of   Sasurie   College of Engineering and

L.G.Balakrishnan Bros Ltd from **09.12.2019** to **14.12.2019** (6 Days).

Co-ordinator   **Head of the Department**   **Principal**

Dr. ....VIJAYA........AR ME., Ph.D.,
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Vijayamangalam .... Tiruppur (.d).

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COLLEGE OF ENGINEERING
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DEPARTMENT OF MECHANICAL ENGINEERING

<u>Certificate of Participation</u>

ELANGOVAN T, IV MECH

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Principal

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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DEPARTMENT OF MECHANICAL ENGINEERING

TEST QUESTION PAPER - VALUE ADDED COURSE

"Robotics for Rehabilitation Engineering"

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours   **Academic Year : 2019 -2020 /EVEN**

Date of Test : 14.12.2019

MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student: Year/Sem:

AU Register Number:

Answer all the questions:

1. What is the primary focus of rehabilitation engineering?
   a. Industrial automation
   b. Healthcare robotics
   c. Aerospace engineering
   d. Computer programming

2. Which system plays a crucial role in designing robotic devices for rehabilitation?
   a. Respiratory system
   b. Cardiovascular system
   c. Musculoskeletal system
   d. Digestive system

3. What are the fundamental principles of robotics essential for rehabilitation engineering?
   a. Genetic engineering
   b. Quantum mechanics
   c. Basic mechanics and control
   d. Organic chemistry

4. Which type of robots is commonly used in rehabilitation applications?
   a. Industrial robots
   b. Agricultural robots
   c. Service robots
   d. Social robots

5. What is the role of actuators in rehabilitation robotics?
   a. Gather patient data
   b. Provide targeted therapeutic interventions
   c. Monitor environmental conditions
   d. Process sensory information

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6. What does the term "human-machine interface" refer to in the context of rehabilitation robotics?
   a. Interaction between humans and machines
   b. Machine learning algorithms
   c. Robot programming language
   d. System maintenance procedures

7. In neurorehabilitation, which neurological disorder might involve the use of robotic devices?
   a. Diabetes
   b. Parkinson's disease
   c. Hypertension
   d. Osteoporosis

8. What are exoskeletons in the context of rehabilitation robotics?
   a. External support structures worn by patients
   b. Tiny robotic insects
   c. Virtual reality simulations
   d. Robotic animals used for therapy

9. How can machine learning be applied in rehabilitation robotics?
   a. Analyzing financial data
   b. Creating virtual reality environments
   c. Developing adaptive learning algorithms
   d. Designing hardware components

10. Which term refers to the evaluation of rehabilitation robotics effectiveness using established metrics?
    a. Clinical assessment
    b. Mechanical assessment
    c. Technical assessment
    d. User assessment

11. What is a key consideration in the ethical use of robotics in healthcare?
    a. Cost-effectiveness
    b. Rapid development
    c. Patient confidentiality
    d. Technological complexity

12. In the context of rehabilitation engineering, what is the significance of understanding human anatomy and physiology?
    a. Enhancing artistic skills
    b. Improving communication abilities
    c. Designing effective robotic interventions
    d. Studying historical perspectives

13. Which of the following is NOT a type of rehabilitation scenario commonly addressed by robotics?
    a. Stroke rehabilitation
    b. Cardiovascular rehabilitation
    c. Spinal cord injury rehabilitation
    d. Musculoskeletal rehabilitation

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14. What is the primary goal of rehabilitation robotics?
   a. Automating household chores
   b. Enhancing human capabilities and functions
   c. Developing autonomous vehicles
   d. Improving social media algorithms

15. What role do sensors play in rehabilitation robotics?
   a. Provide targeted therapeutic interventions
   b. Gather patient data for analysis
   c. Control robotic movements
   d. Generate electrical power

16. Which field is NOT directly related to rehabilitation engineering?
   a. Biomechanics
   b. Astrophysics
   c. Physical therapy
   d. Occupational therapy

17. What does the term "adaptive learning" imply in the context of rehabilitation robotics?
   a. Customizing therapy based on individual needs
   b. Creating robots with learning capabilities
   c. Programming robots to follow set patterns
   d. Adjusting robot size based on patient height

18. How can robotics contribute to personalized rehabilitation plans?
   a. Generating standardized treatment protocols
   b. Customizing therapy based on patient characteristics
   c. Eliminating the need for human intervention
   d. Using a one-size-fits-all approach

19. What is the primary purpose of clinical assessment in rehabilitation robotics?
   a. Testing the durability of robotic components
   b. Evaluating the effectiveness of interventions
   c. Assessing the environmental impact of robots
   d. Monitoring the power consumption of robotic systems

20. Which factor is crucial in ensuring successful user acceptance of rehabilitation robotics?
   a. Robot speed
   b. User interface design
   c. Complexity of algorithms
   d. Availability of spare parts

21. In the context of robotics for rehabilitation, what is the primary role of actuators?
   a. Collecting patient data
   b. Providing targeted therapeutic interventions
   c. Sensing environmental conditions
   d. Processing visual information

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22. What distinguishes wearable robotic exoskeletons from other robotic devices?
    a. Size and weight
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    c. Integration with virtual reality
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23. Which neurological disorder may involve the use of robotic devices for rehabilitation?
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DEPARTMENT OF MECHANICAL ENGINEERING

TEST QUESTION ANSWER KEY - VALUE ADDED COURSE

"Robotics for Rehabilitation Engineering"

From 09.12.2019 to 14.12.2019 (6 days)

Duration : 36 Hours **Academic Year : 2019 -2020 /EVEN**

Date of Test : 14.12.2019

1	b	6	a	11	c	16	b	21	b
2	c	7	b	12	c	17	a	22	a
3	c	8	a	13	b	18	b	23	b
4	c	9	c	14	b	19	b	24	c
5	b	10	a	15	b	20	b	25	b

VAC Coordinator

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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Vijayamangalam - 638 056, Tirupur (Dt).

MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student: G. Aravindakumar　　　Year/Sem: III / VI

AU Register Number: 732417114004

Answer all the questions:

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DEPARTMENTOFMECHANICALENGINEERING

ASSESMENTSHEET-VALUEADDEDCOURSE
"Robotics for Rehabilitation Engineering"

From 09.12.2019 to 14.12.2019 (6 days)

Duration:36Hours

AcademicYear:2019-2020/EVEN

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQTEST		OVERALL Score (100) (50%ofA +50%ofB)
				No. of Hours Attended	Attendance Score(100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
1.	732417114001	ALBERTSTEEPHENS	III MECH	36	100	19	76	88
2.	732417114003	ANITHKUMARV	III MECH	33	90	19	76	83
3.	732417114004	ARAVINDAKUMARG	III MECH	30	80	21	84	82
4.	732417114006	BALAJICS	III MECH	36	100	18	72	86
5.	732417114007	BALAJIG	III MECH	30	80	20	80	80
6.	732417114010	DHAYANIDHIR	III MECH	36	100	19	76	88
7.	732417114011	DHINESHKUMARK	III MECH	36	100	19	76	88
8.	732417114012	GANESHKUMARP	III MECH	36	100	18	72	86
9.	732417114013	GOWTHAMM	III MECH	33	90	19	76	83
10.	732417114014	HARIHARANM	III MECH	36	100	19	76	88
11.	732417114016	HARIKRISHNAM	III MECH	30	80	20	80	80
12.	732417114017	JAGADEESHKUMARM	III MECH	36	100	19	76	88
13.	732417114019	KALIRAJR	III MECH	30	80	21	84	82

ASSESMENT SHEET - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		Over all Score (100) (50%of A ~50%of B)
				No. of Hours Attended	Attendance Score(100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
14.	732417114020	KAMALESHP	III/MECH	33	90	19	76	83
15.	732417114023	KAVINKUMARV	III/MECH	36	100	20	80	90
16.	732417114025	KRISHNAMOORTHYP	III/MECH	30	80	21	84	82
17.	732417114026	LOGAPRIYANE	III/MECH	33	90	18	72	81
18.	732417114028	MURUGANANDAMK	III/MECH	36	100	21	84	92
19.	732417114029	MUTHUPANDIM	III/MECH	33	90	19	76	83
20.	732417114031	MYTHERAYANK	III/MECH	36	100	19	76	88
21.	732417114032	NITHISHKUMARR	III/MECH	33	90	19	76	83
22.	732417114033	POORAGAVANP	III/MECH	36	100	20	80	90
23.	732417114036	RAVIKUMARR	III/MECH	30	80	21	84	82
24.	732417114037	SANJAYP	III/MECH	33	90	18	72	81
25.	732417114038	SANTHANAM P	III/MECH	36	100	21	84	92
26.	732417114039	SATHYANARAYANANS	III/MECH	33	90	19	76	83
27.	732417114040	SHEIKBARIDHA	III/MECH	36	100	19	76	88
28.	732417114041	SRIDHAR S	III/MECH	33	90	19	76	83
29.	732417114042	SUGANRAJP	III/MECH	36	100	20	80	90
30.	732417114043	SURIYAPRAKASHP	III/MECH	30	80	21	84	82
31.	732417114045	VASANTHAKUMARS	III/MECH	36	100	21	84	92
32.	732417114047	VELMURUGANS	III/MECH	36	100	21	84	

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SASURIE INSTITUTIONS

ASSESMENTSHEET-VALUEADDEDCOURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQTEST		OVERALL Score (100) (50%ofA +50%ofB)
				No. of Hours Attended	Attendance Score(100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
33.	732417114048	VENGATESANM	III/MECH	33	90	19	76	83
34.	732417114049	VETRIVELS	III/MECH	36	100	20	80	90
35.	732417114050	VIGNESHWARANR	III/MECH	30	80	21	84	82
36.	732417114052	VIJIPRIYADHARSANP	III/MECH	33	90	18	72	81
37.	732417114053	VISHNUKUMARS	III/MECH	36	100	21	84	92
38.	732417114301	HEYSONKJ	III/MECH	33	90	19	76	83
39.	732417114501	VIGNESHKS	III/MECH	36	100	19	76	88
40.	732417114503	DHANANJAYANK	III/MECH	36	100	21	84	92
41.	732417114701	ARUNKUMARK	III/MECH	30	80	21	84	82
42.	732417114702	MYTHILIG	III/MECH	36	100	20	80	90
43.	732417114703	JAMESJAYAPRAKASHG	III/MECH	30	80	21	84	82
44.	732417114704	VIJAYANANDS	III/MECH	33	90	18	72	81
45.	732417114705	PRAVEENKUMARR	III/MECH	36	100	21	84	92
46.	732417114706	AJITHAA	III/MECH	33	90	19	76	83
47.	732417114707	THIRUMOORTHINANDHAR	III/MECH	36	100	20	80	90
48.	732416114002	ADARSHCM	IV/MECH	30	80	21	84	82
49.	732416114003	AJITHKUMARK	IV/MECH	30	80	21	84	82
50.	732416114004	ALEXPANDIYANR	IV/MECH	33	90	19	76	83
51.	732416114005	ANANTHASUBRAMANIYAMR	IV/MECH	36	100	19	76	88

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S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQTEST		OVERALL Score (100) (50%ofA +50%ofB)
				No. of Hours Attended	Attendance Score(100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
52.	732416114006	BHARATH M	IV/MECH	33	90	19	76	83
53.	732416114007	BHARATHI T	IV/MECH	36	100	20	80	90
54.	732416114008	DEENADHAYALR	IV/MECH	30	80	21	84	82
55.	732416114009	DHANASEKARANP	IV/MECH	33	90	18	72	81
56.	732416114010	DHANASEKARANS	IV/MECH	36	100	21	84	92
57.	732416114011	DHILEEPKUMARP	IV/MECH	33	90	19	76	83
58.	732416114012	DILIPK	IV/MECH	36	100	19	76	88
59.	732416114013	DINESEKUMART	IV/MECH	36	100	21	84	92
60.	732416114014	ELANGOVANM	IV/MECH	30	80	21	84	82
61.	732416114015	ELANGOVANT	IV/MECH	36	100	21	84	92
62.	732416114016	GOWTHAML	IV/MECH	33	90	19	76	83
63.	732416114017	JAGATHEESHG	IV/MECH	36	100	19	76	88
64.	732416114018	JINUJALEEL	IV/MECH	36	100	21	84	92
65.	732416114019	JOBINCJ	IV/MECH	33	90	19	76	83
66.	732416114021	KATHIRESHB	IV/MECH	36	100	20	80	90
67.	732416114022	KAVINP	IV/MECH	30	80	21	84	82
68.	732416114023	KAVINKUMARS	IV/MECH	33	90	18	72	81
69.	732416114024	LAKSHMANANS	IV/MECH	36	100	21	84	92
70.	732416114026	MOHAMMEDFAZILV	IV/MECH	30	80	21	84	82

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S.No	RegNo.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQTEST		OVERALL Score (100) (50%ofA +50%ofB)
				No. of Hours Attended	Attendance Score(100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
71.	732416114027	NAVANEETHAKRISHNANK	IV/MECH	33	90	19	76	83
72.	732416114028	NEELAMANIKANDANS	IV/MECH	36	100	20	80	90
73.	732416114029	NIKHILRAJ	IV/MECH	30	80	21	84	82
74.	732416114030	PRAVEENKUMARS	IV/MECH	33	90	18	72	81
75.	732416114031	RABERTD	IV/MECH	36	100	21	84	92
76.	732416114032	RAGUNATHK	IV/MECH	33	90	19	76	83
77.	732416114033	RAHULRAMACHANDRAN	IV/MECH	36	100	19	76	88
78.	732416114034	RAMANUJDUBEYA	IV/MECH	36	100	21	84	92
79.	732416114035	RANJITHSI	IV/MECH	36	100	21	84	92
80.	732416114036	RANJITHKUMARA	IV/MECH	33	90	19	76	83
81.	732416114037	SAFREENANOOR ARIMBRATHODI	IV/MECH	36	100	19	76	88
82.	732416114038	SANTHOSHKUMARK	IV/MECH	36	100	21	84	92
83.	732416114040	SATHYAKUMARS	IV/MECH	33	90	19	76	83
84.	732416114041	SELVAMANIG	IV/MECH	36	100	20	80	90
85.	732416114042	SELVAMANIKANDANK	IV/MECH	30	80	21	84	82
86.	732416114043	SHANMUGAMR	IV/MECH	33	90	18	72	81
87.	732416114044	SHANMUGANATHAN	IV/MECH	36	100	21	84	92
88.	732416114045	SRIDHARCHANDHRU H	IV/MECH	33	90	19	76	83
89.	732416114046	SUBASHS	IV/MECH	36	100	20	80	90

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				No. of Hours Attended	Attendance Score(100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
90	732416114047	THARANITHARANS	IV/MECH	33	90	19	76	83
91	732416114049	VAIRAMUTHUS	IV/MECH	36	100	20	80	90
92	732416114050	VASANTH M	IV/MECH	30	80	21	84	82
93	732416114051	VENKATESANK	IV/MECH	33	90	18	72	81
94	732416114052	VIGNESH A	IV/MECH	36	100	21	84	92
95	732416114055	VIJAYPRASATHE	IV/MECH	33	90	19	76	83
96.	732416114302	PARVEZA	IV/MECH	36	100	19	76	88
97.	732416114303	VIGNESH S	IV/MECH	36	100	21	84	92
98.	732416114502	MOHANKUMARP	IV/MECH	33	90	19	76	83

VAC Coordinator

HOD/MECH

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