



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

SUBMITTED BY

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:	Biomechanics and Biomimetics				
Resource Person:	E.K.Ponnusamy, CEO, Ramdevs Motors, Coimbatore – 641402.		Mr.N.Karthick, Manager, Ramdevs Motors, Coimbatore – 641402.		
Date of conduct from:	24.06.2019	To:	28.06.2019	Duration:	30 Hours
Organized Department:	MECHANICAL ENGINEERING				
Participant Year:	2/4	Semester:	ODD	No.of Students Registered:	99
Venue:	Lecture hall of II & III year MECH				

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DEPARTMENT OF MECHANICAL ENGINEERING

Ref: SCE / MECH / Students / VAC / 2019 – 2020 / ODD

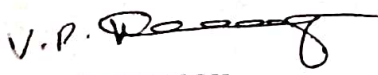
17.06.2019

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 Ramdevs Motors, is organizing a Value Added Course (VAC) for the students of II, III and IV year of MECH on the title “Biomechanics and Biomimetics” from 24.06.2019 to 28.06.2019. 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	E.K.Ponnusamy, CEO, Ramdevs Motors, Coimbatore – 641402.	Mr.N.Karthick, Manager, Ramdevs Motors, Coimbatore – 641402.
Venue	Lecture hall of II & III year MECH	


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
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

DEPARTMENT OF MECHANICAL ENGINEERING

Ref: SCE / MECH / Students / VAC / 2019 – 2020 / ODD

17.06.2019

SYLLABUS - VALUE ADDED COURSE

“Biomechanics and Biomimetics”

From 24.06.2019 to 28.06.2019 (5 days)

Duration : 30 Hours

Academic Year : 2019 -2020 / ODD

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Biomechanics and Biomimetics	3	24.06.2019
2	Biological Principles in Biomechanics	3	24.06.2019
3	Mechanics of Biomaterials	3	25.06.2019
4	Biomimetic Design	3	25.06.2019
5	Biofluid Mechanics	3	26.06.2019
6	Musculoskeletal Biomechanics	3	26.06.2019
7	Biomechanics in Medical Devices	3	27.06.2019
8	Soft Robotics and Biomechanics	3	27.06.2019
9	Biosensors and Biomechanical Measurement	3	28.06.2019
10	Ethical and Societal Implications	3	28.06.2019
Total Hours		30	-

After successful completion of 30 Hours VAC, the assessment test for the VAC titled “Biomechanics and Biomimetics” will be conducted on 28.06.2019.


 VAC Coordinator


 HoD/MECH


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

DEPARTMENT OF MECHANICAL ENGINEERING

STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

“Biomechanics and Biomimetics”

From 24.06.2019 to 28.06.2019 (5 days)

Duration : 30 Hours

Academic Year : 2019 -2020 / ODD

S.No.	Reg No.	Name of the Student	Year / Branch
1.	732417114001	ALBERT STEEPHEN S	III/MECH
2.	732417114003	ANITHI 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

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

STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

S.No.	Reg No.	Name of the Student	Year / Branch
31	73241711003	VASANTHA KUMAR S	III MECH
32	73241711007	VEEMURUGAN S	III MECH
33	73241711008	VENKATESAN M	III MECH
34	73241711009	VEERVEL S	III MECH
35	73241711030	VIGNESHWARAN R	III MECH
36	73241711032	VIBRIN ADHARAN P	III MECH
37	73241711033	VISHNUKUMAR S	III MECH
38	73241711001	HEYSON K J	III MECH
39	73241711001	VIGNESK S	III MECH
40	73241711003	DIHARANAYAN K	III MECH
41	73241711001	ARUN KUMAR K	III MECH
42	73241711002	MYTHLEG	III MECH
43	73241711003	FAMEN JAY A PRAKASH G	III MECH
44	73241711001	VIJAY ANAND S	III MECH
45	73241711005	PRAVEEN KUMAR R	III MECH
46	73241711006	ABHIX A	III MECH
47	73241711007	THIRUMOORTHINANDHAR	III MECH
48	73241611007	ADARSH C M	IV MECH
49	73241611003	ABHIKUMAR K	IV MECH
50	73241611001	ALIEXPANDIYAN R	IV MECH
51	73241611003	ANANTHASUBRAMANIAM R	IV MECH
52	73241611006	BIHARATHI M	IV MECH
53	73241611007	BIHARATHI I	IV MECH
54	73241611008	DEENADHAYAL R	IV MECH
55	73241611009	DIHANSI KARAN P	IV MECH
56	73241611010	DIHANSI KARAN S	IV MECH
57	73241611011	DHILIPKUMAR P	IV MECH
58	73241611012	DHILIP K	IV MECH
59	73241611013	DINESHKUMAR I	IV MECH
60	73241611014	ELANGOVAN M	IV MECH
61	73241611015	ELANGOVAN I	IV MECH
62	73241611016	GOWDHAMI	IV MECH
63	73241611017	JAGATHESLEG	IV MECH
64	73241611018	JINDU JALLE	IV MECH
65	73241611019	ROBIN C J	IV MECH
66	73241611021	KATHRESH B	IV MECH
67	73241611022	KAVIN P	IV MECH


 Dr.M.VIJAYAKUMAR M.B., Ph.D.,
 Professor

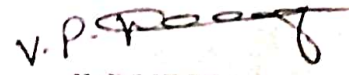




SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 633 056, Tirupur (Dt).

STUDENTS PARTICIPATION LIST - VALUE ADDED COURSE

S.No.	Reg No.	Name of the Student	Year / Branch
68.	732416114023	KAVINKUMAR S	IV/MECH
69.	732416114024	LAKSHIMANAN S	IV/MECH
70.	732416114026	MOHAMMID 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 I	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.	732416114054	VIJAY E	IV/MECH
96.	732416114055	VIJAY PRASATH E	IV/MECH
97.	732416114302	PARVEZ A	IV/MECH
98.	732416114303	VIGNESH S	IV/MECH
99.	732416114502	MOHANKUMAR P	IV/MECH


 VAC Coordinator


 HoD/MECH


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DEPARTMENT OF MECHANICAL ENGINEERING

STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE

“Biomechanics and Biomimetics”


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S.No	Reg No.	Name of the Student	Year/ Branch	24.06.2019		25.06.2019		26.06.2019		27.06.2019		28.06.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1.	732417114001	ALBERT STEEPHEN S	III/MECH	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
2.	732417114003	ANITH KUMAR V	III/MECH	/	A	/	/	/	/	/	/	/	/	27	<i>[Signature]</i>
3.	732417114004	ARAVINDAKUMAR G	III/MECH	/	/	/	/	/	/	A	A	/	/	24	<i>[Signature]</i>
4.	732417114006	BALAJI C S	III/MECH	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
5.	732417114007	BALAJI G	III/MECH	/	/	A	A	/	/	/	/	/	/	24	<i>[Signature]</i>
6.	732417114010	DHAYANIDHI R	III/MECH	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
7.	732417114011	DHINESH KUMAR K	III/MECH	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
8.	732417114012	GANESHKUMAR P	III/MECH	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
9.	732417114013	GOWTHAM M	III/MECH	/	/	/	/	/	A	/	/	/	/	27	<i>[Signature]</i>
10.	732417114014	HARIHARAN M	III/MECH	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
11.	732417114016	HARI KRISHNA M	III/MECH	/	/	/	/	A	A	/	/	/	/	24	<i>[Signature]</i>
12.	732417114017	JAGADEESHKUMAR M	III/MECH	/	/	/	/	/	/	/	/	/	/	30	<i>[Signature]</i>
13.	732417114019	KALIRAJ R	III/MECH	/	/	/	/	/	/	A	A	/	/	24	<i>[Signature]</i>

Dr.M.VIJAYAKUMAR ME., Ph.D.,
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S.No	Reg No.	Name of the Student	Year/ Branch	24.06.2019		25.06.2019		26.06.2019		27.06.2019		28.06.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
14.	732417114020	KAMALESH P	III/MECH	A	/	/	/	/	/	/	/	/	/	27	P.Kuback
15.	732417114023	KAVINKUMAR V	III/MECH	/	/	/	/	/	/	/	/	/	/	30	V.Kinney
16.	732417114025	KRISHNAMOORTHY P	III/MECH	/	/	/	A	A	/	/	/	/	/	24	P.Thirumathy
17.	732417114026	LOGAPRIYAN E	III/MECH	/	/	/	/	/	A	/	/	/	/	27	Prajayak
18.	732417114028	MURUGANANDAM K	III/MECH	/	/	/	/	/	/	/	/	/	/	30	K.Thirumathy
19.	732417114029	MUTHUPANDI M	III/MECH	/	/	/	/	/	A	/	/	/	/	29	M.Muthupandi
20.	732417114031	MYTHERAYAN K	III/MECH	/	/	/	/	/	/	/	/	/	/	30	K.Mytherayan
21.	732417114032	NITHISH KUMAR R	III/MECH	/	A	/	/	/	/	/	/	/	/	27	Nithish Kumar
22.	732417114033	POORAGAVAN P	III/MECH	/	/	/	/	/	/	/	/	/	/	30	P.Pooragan
23.	732417114036	RAVIKUMAR R	III/MECH	/	/	A	A	/	/	/	/	/	/	24	R.Ravikumar
24.	732417114037	SANJAY P	III/MECH	/	/	/	/	/	A	/	/	/	/	27	P.Sanjay
25.	732417114038	SANTHANAM P	III/MECH	/	/	/	/	/	/	/	/	/	/	30	P.Santhanam
26.	732417114039	SATHYANARAYANAN S	III/MECH	A	/	/	/	/	/	/	/	/	/	27	S.Sathyanarayanan
27.	732417114040	SHEIK BARIDH A	III/MECH	/	/	/	/	/	/	/	/	/	/	30	A.Sheikbaridh
28.	732417114041	SRIDHAR S	III/MECH	/	/	/	/	A	/	/	/	/	/	27	S.Sridhar
29.	732417114042	SUGANRAJ P	III/MECH	/	/	/	/	/	/	/	/	/	/	30	P.Suganraj
30.	732417114043	SURIYAPRAKASH P	III/MECH	/	/	A	A	/	/	/	/	/	/	24	P.Suriyakash
31.	732417114045	VASANTHA KUMAR S	III/MECH	/	/	/	/	/	/	/	/	/	/	30	S.Vasantha
32.	732417114047	VELMURUGAN S	III/MECH	/	/	/	/	/	/	/	/	/	/	30	S.Velmurugan

Dr. M. Vijayaraj, P.H.D.,
Principal

STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE

Sl.No	Reg No.	Name of the Student	Year/ Branch	24.06.2019		25.06.2019		26.06.2019		27.06.2019		28.06.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
33	712417114048	VENGATESAN M	III MECH	/	/	/	/	/	/	/	/	/	/	30	H. Veth
34	712417114049	SETRIVEL S	III MECH	/	/	/	/	A	A	/	/	/	/	24	Setri
35	712417114050	VIGNESHWARAN R	III MECH	/	/	/	/	/	/	/	/	/	/	30	R. Vignesh
36	712417114052	VENPRIYADHARSAN P	III MECH	/	/	A	/	/	/	/	/	/	/	27	V. Venpriya
37	712417114051	VENKUKUMAR S	III MECH	/	/	/	/	/	/	/	/	/	/	30	S. Venku
38	712417114391	HEYMUN K J	III MECH	/	/	/	/	A	/	/	/	/	/	27	H. Heymun
39	712417114501	VIGNESH K S	III MECH	/	/	/	/	/	/	/	/	/	/	30	V. Vignesh
40	712417114503	DHANANJAYAN K	III MECH	/	/	/	/	/	/	/	/	/	/	30	D. Dhana
41	712417114701	ARUN KUMAR K	III MECH	/	/	/	/	/	/	A	/	/	/	27	Arun
42	712417114702	MYTHILIG	III MECH	/	/	A	/	/	/	/	/	/	/	27	M. Mythili
43	712417114703	JAMES JAYA PRAKASH G	III MECH	/	/	/	/	/	/	/	/	/	/	30	J. James
44	712417114704	VJAY ANAND S	III MECH	/	/	/	/	A	/	/	/	/	/	27	V. Vjay
45	712417114705	PRAVEEN KUMAR R	III MECH	A	A	/	/	/	/	/	/	/	/	24	R. Praveen
46	712417114706	AJITHA A	III MECH	/	/	/	/	/	/	A	/	/	/	27	A. Ajitha
47	712417114707	THELMOORTHIVANDHA R	III MECH	/	/	A	A	/	/	/	/	/	/	24	T. The
48	712416114002	ADARSH C M	IV MECH	/	/	/	/	/	/	A	A	/	/	24	A. Adarsh
49	712416114003	AJITHKUMAR K	IV MECH	/	/	/	/	/	/	/	/	/	/	30	K. Ajith
50	712416114004	ALEXPANDIYAN R	IV MECH	/	/	/	A	/	/	/	/	/	/	27	R. Alex
51	712416114005	ANANTHASUBRAMANYAM R	IV MECH	/	/	/	/	/	/	/	/	/	/	30	R. Ananth

Dr. M. VIJAYAKUMAR M.E., Ph.D.




SASURIE COLLEGE OF ENGINEERING,
 Vijayangalam - 631 056, Tirupur (T.N.)

STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	24.06.2019		25.06.2019		26.06.2019		27.06.2019		28.06.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
52.	732416114006	BHARATH M	IV/MECH	/	/	/	/	/	/	/	/	/	/	27	M. Bharath
53.	732416114007	BHARATH T	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	B. Bharath
54.	732416114008	DEENADHAYAL R	IV/MECH	/	/	A	A	/	/	/	/	/	/	24	R. Deen
55.	732416114009	DHANASEKARAN P	IV/MECH	/	/	/	/	/	/	A	/	/	/	27	P. Dhana
56.	732416114010	DHANASEKARAN S	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	S. Dhana
57.	732416114011	DHILEEPKUMAR P	IV/MECH	/	/	/	/	A	/	/	/	/	/	27	P. Dhileep
58.	732416114012	DILIP K	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	K. Dilip
59.	732416114013	DINESH KUMAR T	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	T. Dinesh
60.	732416114014	ELANGO VAN M	IV/MECH	/	A	/	/	/	/	/	/	/	/	27	M. Elango
61.	732416114015	ELANGO VAN T	IV/MECH	/	/	/	/	/	/	A	/	/	/	27	T. Elango
62.	732416114016	GOWTHAM L	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	L. Gowtham
63.	732416114017	JAGATHEESH G	IV/MECH	/	/	/	/	/	/	/	A	/	/	27	G. Jagatheesh
64.	732416114018	JINU JALEEL	IV/MECH	/	/	/	/	A	A	/	/	/	/	24	J. Jaleel
65.	732416114019	JOBIN C J	IV/MECH	/	/	A	/	/	/	/	/	/	/	27	C. Jobin
66.	732416114021	KATHIRESH B	IV/MECH	/	/	/	/	/	/	A	A	/	/	24	B. Kathiresh
67.	732416114022	KAVIN P	IV/MECH	/	/	/	A	/	/	/	/	/	/	27	P. Kavitha
68.	732416114023	KAVINKUMAR S	IV/MECH	A	/	/	/	/	/	/	/	/	/	27	S. Kavitha
69.	732416114024	LAKSHMANAN S	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	S. Lakshmanan
70.	732416114026	MOHAMMED FAZIL V	IV/MECH	/	/	/	/	/	/	/	A	/	/	27	V. Fazil

Dr. M. VIJAYAKANTHAR ME., Ph.D.,
PRINCIPAL

 **SASURIE COLLEGE OF ENGINEERING,**
Vijayamangalam - 635 056, Tirupur (Dt).

STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	24.06.2019		25.06.2019		26.06.2019		27.06.2019		28.06.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
71	732416114027	NAVANEETHAKRISHNAN K	IV/MECH	/	/	/	/	A	/	/	/	/	/	27	K.K.K
72	732416114028	NELAMANIKANDAN S	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	S.K.
73	732416114029	NIKHIL RAJ	IV/MECH	/	/	A	A	/	/	/	/	/	/	24	S.K.
74	732416114030	PRAVEENKUMAR S	IV/MECH	/	/	/	/	/	/	A	/	/	/	27	S.K.
75	732416114031	RABERT D	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	K.F.
76	732416114032	RAGUNATH K	IV/MECH	A	/	/	/	/	/	/	/	/	/	27	Ragunath K
77	732416114033	RAHUL RAMACHANDRAN	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	Rahul
78	732416114034	RAMANUJ DUBEY A	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	Ramajey
79	732416114035	RANJITH S I	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	Ranjith S
80	732416114036	RANJITHKUMAR A	IV/MECH	/	A	/	/	/	/	/	/	/	/	27	Ranjith
81	732416114037	SAFREENA NOOR ARIMBRATHODI	IV/MECH	/	/	/	/	/	/	A	/	/	/	27	Safreena
82	732416114038	SANTHOSH KUMAR K	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	Santhosh
83	732416114040	SATHYAKUMAR S	IV/MECH	A	/	/	/	/	/	/	/	/	/	27	Sathy
84	732416114041	SELVAMANI G	IV/MECH	/	/	/	/	A	A	/	/	/	/	24	Selva
85	732416114042	SELVAMANIKANDAN K	IV/MECH	/	/	A	/	/	/	/	/	/	/	27	Selva
86	732416114043	SHANMUGAM R	IV/MECH	/	/	/	/	/	/	A	/	/	/	27	Shanmugam
87	732416114044	SHANMUGANATHAN	IV/MECH	/	/	/	/	/	/	A	A	/	/	24	Shanmugam
88	732416114045	SRIDHAR CHANDHIRU H	IV/MECH	/	/	A	A	/	/	/	/	/	/	24	Sridhar
89	732416114046	SUBASH S	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	Subash

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

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SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 633 056, Tirupur (Dt.)

STUDENTS ATTENDANCE LIST - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	24.06.2019		25.06.2019		26.06.2019		27.06.2019		28.06.2019		No. of Hours Attended	Signature of the Student
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
90.	732416114047	THARANITHARAN S	IV/MECH	/	/	/	/	/	/	/	A	/	/	27	S. Thiruthi
91.	732416114049	VAIRAMUTHU S	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	S. Thiruthi
92.	732416114050	VASANTH M	IV/MECH	/	/	A	A	/	/	/	/	/	/	24	M. S. Thiruthi
93.	732416114051	VENKATESAN K	IV/MECH	/	/	/	/	/	/	A	/	/	/	27	K. Venkatesan
94.	732416114052	VIGNESH A	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	A. Vignesh
95.	732416114054	VIJAY E	IV/MECH	/	/	/	/	A	/	/	/	/	/	27	E. Vijay
96.	732416114055	VIJAY PRASATH E	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	E. Vijay
97.	732416114302	PARVEZ A	IV/MECH	/	/	/	/	/	/	/	/	/	/	30	A. Parvez
98.	732416114303	VIGNESH S	IV/MECH	/	/	/	/	/	/	A	A	/	/	24	S. Vignesh
99.	732416114502	MOHANKUMAR P	IV/MECH	/	/	A	A	/	/	/	/	/	/	24	P. Mohankumar


 VAC Coordinator


 HoD/MECH


Dr.M.VIJAYAKUMAR M.E., Ph.D.,
 PRINCIPAL
 SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 638 656, Tirupur (Dt).



Report on Value Added Course

Title:	Biomechanics and Biomimetics				
Resource Person:	E.K.Ponnusamy, CEO, Ramdevs Motors, Coimbatore - 641402.		Mr.N.Karthick, Manager, Ramdevs Motors, Coimbatore - 641402.		
Date of conduct from :	24.06.2019	To:	28.06.2019	Duration	30 Hours
Organized by :	MECHANICAL ENGINEERING and IQAC in association with Ramdevs Motors				
Academic Year:	2019 - 2020		Semester:	ODD	
Participant Year:	II, III, IV Year MECH		No. of Students Participated :	99	
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


- Define and differentiate between biomechanics and biomimetics.
- Analyze the mechanical behavior of tissues, bones, and biomolecules.
- Apply biofluid mechanics concepts to physiological processes, such as cardiovascular and respiratory systems.
- Analyze and interpret human and animal movements.
- Identify and discuss ethical considerations in biomechanical research and applications.

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 99 Students based on the above assessment process.


VAC Co-ordinator


HoD/ MECH


Principal





DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that Mr/Ms MURUGANANDAM K, III MECH has successfully completed the Value Added Course titled "Biomechanics and Biomimetics" Organized by the Department of Mechanical Engineering in association with IQAC of Sasurie College of Engineering and Ramdev Motors from 24.06.2019 to 28.06.2019 (5 Days).

Co-ordinator

Head of the Department

Principal

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 618 056, Tiruppur, Tamil Nadu



DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms MYTHERAYAN K, III MECH has
successfully completed the Value Added Course titled "Biomechanics and Biomimetics" Organized by the
Department of Mechanical Engineering in association with IQAC of Sasurie College of Engineering and Ramdev
Motors from 24.06.2019 to 28.06.2019 (5 Days).

Co-ordinator

Head of the Department

Principal

Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 639 056, Tirupur (Dt.)



DEPARTMENT OF MECHANICAL ENGINEERING


Certificate of Participation

This is to certify that Mr./Ms **DINESH KUMAR T, IV MECH** has successfully completed the Value Added Course titled "Biomechanics and Biomimetics" Organized by the *Department of Mechanical Engineering* in association with IQAC of Sasurie College of Engineering and Ramdev Motors from 24.06.2019 to 28.06.2019 (5 Days).

Co-ordinator

Head of the Department

Principal


 **D. DEVI JAYAKUMAR ME., Ph.D.,**
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tiruppur (TN)





DEPARTMENT OF MECHANICAL ENGINEERING

Certificate of Participation

This is to certify that Mr./Ms NAVANEETHAKRISHNAN K, IV MECH has successfully completed the Value Added Course titled "Biomechanics and Biomimetics" Organized by the Department of Mechanical Engineering in association with IQAC of Sasurie College of Engineering and Ramdev Motors from 24.06.2019 to 28.06.2019 (5 Days).


Co-ordinator


Head of the Department


Principal
Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL
SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

14. Which field focuses on the interaction of living organisms with mechanical elements?
 - a. Biochemistry
 - b. Biorobotics
 - c. Biophysics
 - d. Biotechnology

15. What does the term "bioinspired" mean in biomimetic design?
 - a. Direct replication of biological structures
 - b. Using principles from nature to create new designs
 - c. Replacing biology with technology
 - d. Ignoring biological elements in engineering

16. What is the purpose of biosensors in biomechanical measurements?
 - a. To enhance athletic performance
 - b. To measure and analyze biological parameters
 - c. To create artificial intelligence
 - d. To replicate natural ecosystems

17. Which aspect of soft robotics distinguishes it from traditional robotics?
 - a. Rigid structures
 - b. Inorganic materials
 - c. Soft and flexible materials
 - d. Limited mobility

18. What is the primary role of biomaterials in biomechanics?
 - a. Enhancing energy efficiency
 - b. Mimicking biological processes
 - c. Designing complex algorithms
 - d. Improving fluid dynamics

19. What ethical considerations are important in biomechanical research and applications?
 - a. Environmental impact
 - b. Genetic modification
 - c. Privacy issues
 - d. All of the above

20. Which field involves the study of the mechanical aspects of living organisms?
 - a. Biotechnology
 - b. Biophysics
 - c. Biomimetics
 - d. Biochemistry

21. What does the term "biomechanical parameters" refer to?
 - a. Measurements related to living organisms
 - b. Mechanical properties of non-living materials
 - c. Genetic codes
 - d. Chemical reactions in the body

DEPARTMENT OF MECHANICAL ENGINEERING
TEST QUESTION PAPER - VALUE ADDED COURSE

"Biomechanics and Biomimetics"

From 24.06.2019 to 28.06.2019 (5 days)

Duration : 30 Hours

Academic Year : 2019 -2020 / ODD

Date of Test : 28.06.2019

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 biomechanics?
 - a. Chemical reactions
 - b. Mechanical aspects of living organisms
 - c. Genetic engineering
 - d. Microbiology
2. Which term refers to the imitation of models, systems, or elements of nature for solving complex human problems?
 - a. Biotechnology
 - b. Biomimicry
 - c. Biophysics
 - d. Bioengineering
3. What is the main objective of biomimetic design?
 - a. To replicate natural structures exactly
 - b. To create innovative solutions inspired by nature
 - c. To replace natural organisms with artificial ones
 - d. To minimize the use of biology in engineering
4. Which of the following is NOT a category of biomimetic design?
 - a. Copying form
 - b. Copying function
 - c. Copying color
 - d. Copying process
5. What branch of biomechanics involves the study of fluid dynamics in biological systems?
 - a. Musculoskeletal biomechanics
 - b. Biofluid mechanics
 - c. Soft robotics
 - d. Biosensors


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

6. Which component is NOT part of the musculoskeletal system?
 - a. Bones
 - b. Muscles
 - c. Nerves
 - d. Blood vessels

7. What is the purpose of orthopedic implants in biomechanics?
 - a. To replace damaged joints
 - b. To enhance muscle strength
 - c. To improve vision
 - d. To regulate blood flow

8. What does soft robotics focus on?
 - a. Rigid and inflexible materials
 - b. Stiff robotic structures
 - c. Soft and flexible materials
 - d. Inorganic materials only

9. What role do biosensors play in biomechanics?
 - a. Measure and analyze biomechanical parameters
 - b. Enhance muscular strength
 - c. Mimic biological organisms
 - d. Produce artificial organs

10. What does biofluid mechanics study in the human body?
 - a. Mechanical properties of bones
 - b. Fluid dynamics in physiological processes
 - c. Muscle movements
 - d. Electrical impulses in the nervous system

11. What is the primary aim of applying biomimicry in engineering?
 - a. To duplicate natural structures precisely
 - b. To create innovative solutions inspired by nature
 - c. To eliminate biology from engineering processes
 - d. To develop artificial organisms

12. In biomechanics, what is the study of joint movements and their mechanics called?
 - a. Myology
 - b. Osteology
 - c. Arthrology
 - d. Neurology

13. What are the mechanical properties of tissues and bones essential for in biomechanics?
 - a. Developing genetic codes
 - b. Designing artificial organs
 - c. Understanding structural behavior
 - d. Creating biomimetic robots

22. What is the application of biomechanics in the field of sports?
- Designing fashion accessories
 - Enhancing athletic performance
 - Developing software programs
 - Studying geological formations
23. How does biomimicry contribute to sustainable design?
- By eliminating the use of biology
 - By replicating natural structures exactly
 - By reducing environmental impact through nature-inspired solutions
 - By avoiding innovation in design
24. Which biomimetic design category involves imitating the function of natural elements rather than their form?
- Copying form
 - Copying function
 - Copying color
 - Copying process
25. What is the significance of understanding biofluid mechanics in medical applications?
- Improving joint flexibility
 - Enhancing muscle strength
 - Designing effective drug delivery systems
 - Increasing bone density


Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (TN).

DEPARTMENT OF MECHANICAL ENGINEERING

TEST QUESTION ANSWER KEY - VALUE ADDED COURSE

“Biomechanics and Biomimetics”

From 24.06.2019 to 28.06.2019 (5 days)

Duration : 30 Hours

Academic Year : 2019 -2020 / ODD

Date of Test : 28.06.2019

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


VAC Coordinator


Dr. M. VIJAYAKUMAR ME., Ph.D.
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Vijayamangalam - 600 050, Tirupur (Dt).

DEPARTMENT OF MECHANICAL ENGINEERING
TEST QUESTION PAPER - VALUE ADDED COURSE

“Biomechanics and Biomimetics”

From 24.06.2019 to 28.06.2019 (5 days)

Duration : 30 Hours

Academic Year : 2019 -2020 / ODD

Date of Test : 28.06.2019

MULTIPLE CHOICE QUESTIONS (25 X 1 = 25 Marks)

Name of the Student: S. Velumugan

Year/Sem: III / V

AU Register Number: 732417114047

Answer all the questions:

1. What is the primary focus of biomechanics?

- a. Chemical reactions
- b. Mechanical aspects of living organisms
- c. Genetic engineering
- d. Microbiology

2. Which term refers to the imitation of models, systems, or elements of nature for solving complex human problems?

- a. Biotechnology
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- a. Musculoskeletal biomechanics
- b. Biofluid mechanics
- c. Soft robotics
- d. Biosensors

21
—
25
CS



Dr.M.VIJAYAKUMAR ME., Ph.D.,
PRINCIPAL



SASURIE COLLEGE OF ENGINEERING,
Vijayamangalam - 638 056, Tirupur (Dt).

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M
Dr. M. VIJAYAKUMAR ME., Ph.D.,
Principal

 SASURIE COLLEGE OF ENGINEERING,
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 - d. Increasing bone density

DEPARTMENT OF MECHANICAL ENGINEERING

ASSESSMENT SHEET - VALUE ADDED COURSE

“Biomechanics and Biomimetics”

From 24.06.2019 to 28.06.2019 (5 days)

Duration : 30 Hours

Academic Year : 2019 -2020/ ODD

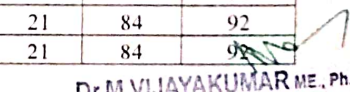
S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
1.	732417114001	ALBERT STEEPHEN S	III/MECH	30	100	19	76	88
2.	732417114003	ANITH KUMAR V	III/MECH	27	90	19	76	83
3.	732417114004	ARAVINDAKUMAR G	III/MECH	24	80	21	84	82
4.	732417114006	BALAJI C S	III/MECH	30	100	18	72	86
5.	732417114007	BALAJI G	III/MECH	24	80	20	80	80
6.	732417114010	DHAYANIDHI R	III/MECH	30	100	19	76	88
7.	732417114011	DHINESH KUMAR K	III/MECH	30	100	19	76	88
8.	732417114012	GANESHKUMAR P	III/MECH	30	100	18	72	86
9.	732417114013	GOWTHAM M	III/MECH	27	90	19	76	83
10.	732417114014	HARIHARAN M	III/MECH	30	100	19	76	88
11.	732417114016	HARI KRISHNA M	III/MECH	24	80	20	80	80
12.	732417114017	JAGADEESHKUMAR M	III/MECH	30	100	19	76	88
13.	732417114019	KALIRAJ R	III/MECH	24	80	21	84	82


Dr.M.VIJAYAKUMAR ME., Ph.D.
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ASSESSMENT SHEET - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL 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	KAMALESH P	III/MECH	27	90	19	76	83
15	732417114023	KAVINKUMAR V	III/MECH	30	100	20	80	90
16	732417114025	KRISHNAMOORTHY P	III/MECH	24	80	21	84	82
17	732417114026	LOGAPRIYAN E	III/MECH	27	90	18	72	81
18	732417114028	MURUGANANDAM K	III/MECH	30	100	21	84	92
19	732417114029	MUTHUPANDI M	III/MECH	27	90	19	76	83
20	732417114031	MYTHIRAYAN K	III/MECH	30	100	19	76	88
21	732417114032	NITHISH KUMAR R	III/MECH	27	90	19	76	83
22	732417114033	POORAGAVAN P	III/MECH	30	100	20	80	90
23	732417114036	RAVIKUMAR R	III/MECH	24	80	21	84	82
24	732417114037	SANJAY P	III/MECH	27	90	18	72	81
25	732417114038	SANTHANAM P	III/MECH	30	100	21	84	92
26	732417114039	SATHYANARAYANAN S	III/MECH	27	90	19	76	83
27	732417114040	SHEIK BARIDH A	III/MECH	30	100	19	76	88
28	732417114041	SRIDHAR S	III/MECH	27	90	19	76	83
29	732417114042	SUGANRAJ P	III/MECH	30	100	20	80	90
30	732417114043	SURIYAPRAKASH P	III/MECH	24	80	21	84	82
31	732417114045	VASANTHA KUMAR S	III/MECH	30	100	21	84	92
32	732417114047	VELMURUGAN S	III/MECH	30	100	21	84	92


Dr. M. VIJAYAKUMAR ME., Ph.D.
 PRINCIPAL
 SASURIE COLLEGE OF ENGINEERING,
 Vijayamangalam - 633 056, Tirupur (Dt).

ASSESSMENT SHEET - VALUE ADDED COURSE

S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
33.	732417114048	VENGATESAN M	III/MECH	30	100	18	72	86
34.	732417114049	VETRIVEL S	III/MECH	24	80	20	80	80
35.	732417114050	VIGNESHWARAN R	III/MECH	30	100	19	76	88
36.	732417114052	VIJIPRIYADHARSAN P	III/MECH	27	90	18	72	81
37.	732417114053	VISHNUKUMAR S	III/MECH	30	100	21	84	92
38.	732417114301	HEYSON K J	III/MECH	27	90	19	76	83
39.	732417114501	VIGNESH K S	III/MECH	30	100	19	76	88
40.	732417114503	DHANANJAYAN K	III/MECH	30	100	21	84	92
41.	732417114701	ARUN KUMAR K	III/MECH	27	90	19	76	83
42.	732417114702	MYTHILI G	III/MECH	27	90	19	76	83
43.	732417114703	JAMES JAYA PRAKASH G	III/MECH	30	100	19	76	88
44.	732417114704	VIJAY ANAND S	III/MECH	27	90	19	76	83
45.	732417114705	PRAVEEN KUMAR R	III/MECH	24	80	21	84	82
46.	732417114706	AJITHA A	III/MECH	27	90	19	76	83
47.	732417114707	THIRUMOORTHINANDHA R	III/MECH	24	80	20	80	80
48.	732416114002	ADARSH C M	IV/MECH	24	80	20	80	80
49.	732416114003	AJITHKUMAR K	IV/MECH	30	100	18	72	86
50.	732416114004	ALEXPANDIYAN R	IV/MECH	27	90	18	72	81
51.	732416114005	ANANTHASUBRAMANIYAM R	IV/MECH	30	100	18	72	86

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S.No	Reg No.	Name of the Student	Year/ Branch	Attendance Details		VAC-MCQ TEST		OVERALL Score (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
52.	732416114006	BHARATH M	IV/MECH	27	90	19	76	83
53.	732416114007	BHARATH T	IV/MECH	30	100	20	80	90
54.	732416114008	DEENADHAYAL R	IV/MECH	24	80	21	84	82
55.	732416114009	DHANASEKARAN P	IV/MECH	27	90	18	72	81
56.	732416114010	DHANASEKARAN S	IV/MECH	30	100	21	84	92
57.	732416114011	DHILEEPKUMAR P	IV/MECH	27	90	19	76	83
58.	732416114012	DILIP K	IV/MECH	30	100	19	76	88
59.	732416114013	DINESH KUMAR T	IV/MECH	30	100	21	84	92
60.	732416114014	ELANGO VAN M	IV/MECH	27	90	18	72	81
61.	732416114015	ELANGO VAN T	IV/MECH	27	90	19	76	83
62.	732416114016	GOWTHAM L	IV/MECH	30	100	19	76	88
63.	732416114017	JAGATHIRESH G	IV/MECH	27	90	19	76	83
64.	732416114018	JINU JALEEL	IV/MECH	24	80	21	84	82
65.	732416114019	JOBIN C J	IV/MECH	27	90	18	72	81
66.	732416114021	KATHIRESH B	IV/MECH	24	80	20	80	80
67.	732416114022	KAVIN P	IV/MECH	27	90	18	72	81
68.	732416114023	KAVINKUMAR S	IV/MECH	27	90	19	76	83
69.	732416114024	LAKSHIMANAN S	IV/MECH	30	100	19	76	88
70.	732416114026	MOHAMMED FAZIL V	IV/MECH	27	90	19	76	83

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				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
71.	732416114027	NAVANEETHAKRISHNAN K	IV/MECH	27	90	19	76	83
72.	732416114028	NEELAMANIKANDAN S	IV/MECH	30	100	20	80	90
73.	732416114029	NIKHIL RAJ	IV/MECH	24	80	21	84	82
74.	732416114030	PRAVEENKUMAR S	IV/MECH	27	90	18	72	81
75.	732416114031	RABERT D	IV/MECH	30	100	21	84	92
76.	732416114032	RAGUNATH K	IV/MECH	27	90	19	76	83
77.	732416114033	RAHUL RAMACHANDRAN	IV/MECH	30	100	19	76	88
78.	732416114034	RAMANUJ DUBEY A	IV/MECH	30	100	21	84	92
79.	732416114035	RANJITH S I	IV/MECH	30	100	18	72	86
80.	732416114036	RANJITHKUMAR A	IV/MECH	27	90	18	72	81
81.	732416114037	SAFREENA NOQR ARIMBRATHODI	IV/MECH	27	90	19	76	83
82.	732416114038	SANTHOSE KUMAR K	IV/MECH	30	100	19	76	88
83.	732416114040	SATHYAKUMAR S	IV/MECH	27	90	18	72	81
84.	732416114041	SELVAMANI G	IV/MECH	24	80	20	80	80
85.	732416114042	SELVAMANIKANDAN K	IV/MECH	27	90	19	76	83
86.	732416114043	SHANMUGAM R	IV/MECH	27	90	19	76	83
87.	732416114044	SHANMUGANATHAN	IV/MECH	24	80	21	84	82
88.	732416114045	SRIDHAR CHANDHRU H	IV/MECH	24	80	21	84	82
89.	732416114046	SUBASH S	IV/MECH	30	100	18	72	86

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				No. of Hours Attended	Attendance Score (100) (A)	No. of Correct Answers	MCQ Score (100) (B)	
90.	732416114047	THARANITHARAN S	IV/MECH	27	90	19	76	83
91.	732416114049	VAIRAMUTHU S	IV/MECH	30	100	20	80	90
92.	732416114050	VASANTH M	IV/MECH	24	80	21	84	82
93.	732416114051	VENKATESAN K	IV/MECH	27	90	18	72	81
94.	732416114052	VIGNESH A	IV/MECH	30	100	21	84	92
95.	732416114054	VIJAY E	IV/MECH	27	90	19	76	83
96.	732416114055	VIJAY PRASATH E	IV/MECH	30	100	19	76	88
97.	732416114302	PARVEZ A	IV/MECH	30	100	21	84	92
98.	732416114303	VIGNESH S	IV/MECH	24	80	21	84	82
99.	732416114502	MOHANKUMAR P	IV/MECH	24	80	21	84	82


 VAC Coordinator


 HOD/MECH

