

S.P.G.Chidambara Nadar - C.Nagammal Campus S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

# DEPARTMENT OF MECHATRONICS ENGINEERING Minutes of Meeting-BoS -19<sup>th</sup> March, 2022

DATE:19<sup>th</sup>March, 2022, Saturday

**Time:** 2:30PM to 4:00 PM

PLATFORM: Microsoft Teams

Meeting Link: https://tinyurl.com/rm7n7djd

# **IN ATTENDANCE:**

S.No	Name of the Expert	Capacity			
1	Dr. V. Santhanam	Dr. V. Santhanam, Professor & Head, Department of Mechatronics Engineering, Rajalakshmi Engineering College, Chennai - 602 105. santhanam.v@rajalakshmi.edu.in Ph: 9840166401	AU Nominee		
2	Dr. T. Asokan	Dr. T. Asokan, Professor & Head, Department of Engineering Design, Indian Institute of Technology Madras, Chennai – 600036  asok@iitm.ac.in Ph: 22574707	Academic Council		
3	Dr. N. Selvaraj	Members			



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4.	Dr. D. Kannadassan	Dr. D. Kannadasan, Associate Professor, Center for Nanotechnology Research, Vellore Institute of Technology, Vellore-600 014 <a href="mailto:dkannadasan@vit.ac.in">dkannadasan@vit.ac.in</a> Ph:91-9944055243	Alumni Member
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FACULTY OF	
MECHATRONICS ENGINEERING	MEMBERS

S.No	Name of the Faculty	Designation					
1	Dr. K. Kannan	Professor					
2	Dr.S.Rajeshbabu	Assistant Professor	3				
3	Dr. G. Sakthivel	Assistant Professor					
4	Mr. A. Arul Kumar	Assistant Professor					
5	Mr. P. Balasundar	Assistant Professor	<				
6	Mr. S.DavidBlessley	Assistant Professor					
7	Mr. S.Wesley Moses Samdoss	Assistant Professor					
8	Mr. A. Ganesan	Assistant Professor					

- 1. Meeting was organized in online mode Microsoft Teams platform at 2.30pm.
- 2. Mr.S.WesleyMoses Samdoss, Assistant Professor UG Coordinator /MTRE gave welcome address to all the members of the Board of Studies.



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### **Discussions:**

**BOS 004.01** 

# Dr. K. Kannandisseminated the Vision, Mission, and PEOs& PSOs of the Department.

Vision of the Department	Mission of the Department
To make the Department of Mechatronics Engineering the unique of its kind in the field of Research and Development towards Industrial Automation & Robotics.	To impart highly innovative and technical knowledge in Mechatronics Engineering to the urban and unreachable rural student folks through "Total Quality Education"

### **Program Educational Objectives (PEOs)**

**PEO1:** Graduates will be able to apply their multi-disciplinary knowledge to formulate, design, develop and analyse Mechatronics Systems.

**PEO2:** Graduates will be able to come up with solution for any real time problems in the field of Mechatronics Engineering and allied areas demanded by the Industry and Society.

**PEO3:** Graduates will be able to get familiarized with economical issues in Mechatronics Engineering and work in multi-disciplinary teams with ethical code of conduct.

**Program Specific Objectives (PSOs)** 



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**PSO1:** Graduates will be able to apply their knowledge in sensors, drives, actuators, controls, mechanical design and modern software & hardware tools to design and develop cost effective Mechatronics systems.

**PSO2:** Graduates will be able to become Technocrats and Entrepreneurs, build the attitude of developing new concepts on emerging fields and pursuing higher studies.

### **BOS 004.02**

Dr. K. Kannangave a brief presentation for the Approval of the Minutes of the III BoS held at 10<sup>th</sup> Nov 2021.

# Dr. K. Kannan Prof & HOD/MTRE pointed out the action taken from the previous BoS

• To offer an open elective paper during V Semester to other departments is finalized as follows

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	T	P	C	Offering To
1.	OMT151	Low Cost Automation	OE	3	3	0	0	3	ECE, EEE, EIE, MECH

Sl. No	Course Code	Coursetitle	Category	Contact Periods	L	Т	P	C	Offering To
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1.	OMT171	Industrial Robotics	ОЕ	3	3	0	0	3	AI & DS, CSE,IT,ECE,EE E&EIE	
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To offer an open elective paper during VII Semester to other departments is finalized as follows

#### **BOS 004.03**

**Dr. K. Kannan** presented the R2020 III Year and IV Year curriculum and syllabus for discussion and approval.

a. B.E -MTRE ( $5^{th}$  to  $8^{th}$  semester)

### Semester-V

SI.	COURSE CODE	COURSE TITLE	CATEGORY	PER PER WEE		DS	TOTAL CONTACT	CREDITS
				L	T	P	PERIODS	CREDITS
TH	EORY							
1.	IT1471	Object Oriented Programming using JAVA (Theory Cum Lab)	PC	3	0	2	5	4



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		TOTAL		18	0	12	29	24
9.	HS1521	Professional Communication	EE	0	0	2	1	1
8.	MT1511	Power Electronic Converters and Drives laboratory	PC	0	0	4	4	2
7.	ME1581	Kinematics and Dynamics Laboratory	PC	0	0	4	4	2
PRA	ACTICAL							
6.	OE1	Open Elective I	OE	3	0	0	3	3
5.	PE1	Professional Elective I	PE	3	0	0	3	3
4.	MT1503	Power Electronic Converters and Drives	PC	3	0	0	3	3
3.	MT1502	Machine Dynamics for Mechatronics Engineers	PC	3	0	0	3	3
2.	MT1501	Machine Design	PC	3	0	0	3	3

# Semester-VI

SI. No.	COURSE CODE	COURSE TITLE	CATEGORY	SI	ERIC PER EEK T	P	TOTAL CONTAC T PERIODS	CREDITS
THE	EORY							
1.	MT1601	Design of Mechatronics System	PC	3	0	0	3	3
2.	MT1602	Fluid Power Systems (Theory Cum Lab)	PC	3	0	2	5	4



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3.	MT1603	Industrial Automation (Theory Cum Lab)	PC	3	0	2	5	4
4.	PEII	Professional Elective–II	PE	3	0	0	3	3
5.	PEIII	Professional Elective–III	PE	3	0	0	3	3
6.		Online Course	OC		NPTEL/SWAYAM			3
PRA	ACTICAL							
7.	MT1621	Design and Fabrication Project for Mechatronics Engineering	EE	0	0	4	4	2
		TOTAL		15	0	8	23	22

# Semester -VII

Si.	Course				Perio er We	0.00	Total	8
No.	Code	Course Title	Category	L	Т	P	Contact Periods	Credits
THI	EORY	8		•				
1.	GE1771	Principles of Management	HS	3	0	0	3	3



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2.	MT1701	Computer Aided Design and Manufacturing	PC	3	0	0	3	3
3.	MT1702	Robotics and Machine Vision System	PC	3	0	0	3	3
4.	PEIV	Professional Elective–IV	PE	3	0	0	3	3
5.	PEV	Professional Elective–V	PE	3	0	0	3	3
6.	OEII	Open Elective-II	OE	3	0	0	3	3
7.		Online Course	OC	8	NPT	EL/SV	VAYAM	3
PRA	CTICAL		H					
8.	MT1711	Computer Aided Design and Manufacturing Laboratory	PC	0	0	4	4	2
9.	MT1712	Robotics and Machine Vision System Laboratory	PC	0	0	4	4	2
			TOTAL	18	0	8	26	25

# Semester- VIII

			Pe	eriods	8		
Course			Per	r Wee	ek	Total	
Code	Course Title	Category	L	Т	P	Contact Periods	Credits
	Course Code		SERVICE DE LOS DESCRIPTIONS DE LOS DE	Course	Course Per Wee		Course Code Course Title Category L T P  Per Week Total Contact



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2.	MT1821	Project Work	EEC	0	0	16	16	8
			TOTAL	0	0	16	16	8

### b. List of Professional Elective Courses

### Professional Elective I, Semester V

SI. No.	Course Code	CourseTitle	Category	Contact Periods	L	Т	P	C
1.	EE1535	Special Electrical Machines	PE	3	3	0	0	3
2.	ME1504	Hybrid and Electric Vehicle	PE	3	3	0	0	3
3.	MT1531	Computer Integrated Manufacturing systems	PE	3	3	0	0	3
4.	MT1532	Python Programming for Mechatronics Engineering	PE	3	3	0	0	3
5.	MT1533	Statistical Quality Control	PE	3	3	0	0	3

### Professional Elective II, Semester VI

SI. No.	Course Code	CourseTitle	Category	Contact Periods	L	Т	P	C
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1.	AD1201	Foundations for Data Science	PE	3	3	0	0	3
2.	MT1631	Autotronics	PE	3	3	0	0	3
3.	MT1632	Design of Experiment	PE	3	3	0	0	3
4.	MT1633	Medical Mechatronics	PE	3	3	0	0	3
5.	MT1634	Rapid Prototyping	PE	3	3	0	0	3

### Professional Elective III. Semester VI

	1 Totessional Elective III, Scinesci vi											
SI. No.	Course Code	CourseTitle	Category	Contact Periods	L	T	P	C				
1.	ME1639	Non-Destructive Testing and Evaluation	PE	3	3	0	0	3				
2.	AD1371	Introduction to Artificial Intelligence	PE	3	3	0	0	3				
3.	MT1635	Flexible Manufacturing System	PE	3	3	0	0	3				
4.	MT1636	Service and Field Robotics	PE	3	3	0	0	3				
5.	ME1737	Composites Materials	PE	3	3	0	0	3				



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### Professional Elective IV, Semester VII

Sl. No.	Course Code	Course Title	Category	Contact Periods	L	Т	P	C
1.	EI1634	Embedded Systems	PE	3	3	0	0	3
2.	GE1671	Total Quality management	HS	3	3	0	0	3
3.	MT1731	Machine Learning and Deep Learning	PE	3	3	0	0	3
4.	MT1732	Mobile and Autonomous Robot	PE	3	3	0	0	3
5.	MT1737	Synthesis and Characterization of Nano Materials	PE	3	3	0	0	3

### Professional Elective V, Semester VII

SI. No.	Course Code	Course Title	Category	Contact Periods	L	Т	P	С
1.	GE1471	Professional Ethics and human values	HS	3	3	0	0	3
2.	ME1743	Maintenance Engineering	PE	3	3	0	0	3
3.	MT1733	Automation system design	PE	3	3	0	0	3
4.	MT1734	Data science for Business Decisions	PE	3	3	0	0	3
5.	MT1735	Internet of Things for Mechatronics	PE	3	3	0	0	3



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# OPEN ELECTIVE COURSES (Offered by Mechatronics Engineering Department to other branches)

### Semester V

SI. No.	Course Code	Course Title	Category	Contact Periods	L	Т	P	C	Offering To
1.	OMT151	Low Cost Automation	OE	3	3	0	0	3	ECE, EEE, EIE, MECH

### **Semester VII**

SI. No.	Course Code	Course Title	Category	Contact Periods	L	Т	P	C	Offering To
1.	OMT171	Industrial Robotics	OE	3	3	0	0	3	AI & DS, CSE, ECE EEE EIE

# The following suggestions were given by the BOS Members:

- Dr. T. Asokan&Dr.V.Santhanamsuggested that in Professional Elective –IV the subject name Autonomous and Mobile Robot title is inappropriate and they given suggestions as Autonomous Mobile Robot.
- In Professional Elective-IV the members asked about the resources and research facilities
  available for the subject Synthesis and Characterization of Nano Materials. Dr.K.Kannan
  described the resources and research facilities available for that subject in other
  departments.



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- Dr. N. Selvaraj suggested to rename the subject titled Principles of Management as Management Science and to follow the recent (after 2010 is recommended) editions of Text and Reference books.
- Members recommended the text book CAD/CAM by MikellP.Groover and the reference book CAD/CAM by P.N.Raofor the subject Computed Aided Design and Manufacturing.
- Robotics and Machine Vision System the Members suggested harmonic drives topic is not fit for included in Unit-I. Dr.K.Kannan replied will add the topic of Introduction to Transmission & Drives. Unit III topics are very minimal. They asked to reframe the syllabus for this subject.
- Dr.T.Asokan Suggested that CAD/CAM Lab Experiment Number 2 can be renamed as Modeling and Assembling of Mechanical Systems.
- Dr. N. Selvaraj clarified about the Robot Operating Systems. Dr.V.Santhanam mentioned the ROS is not discussed in theory, so the members suggested that the provisions may given for the introduction to ROS in Lab Syllabus.
- Dr. N. Selvarajsuggested to ensure the Six-sigma topic in Total Quality Management.
  - Dr.T.Askokan suggested to remove the repeated topics in Automation System Design.
- Dr. K. Kannan presented the Proposed Syllabus for open elective papers. Members suggested to revise the syllabus for industrial robotics.

### **BOS 004.04**

**Dr. K. Kannan**presented the details of Value Added Course Conducted for II Year Mechatronics Engineering students.



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Name of the Course	:Real Time applications and Developments usingLabVIEW
Course Duration	: 6 days
Conducted dates	: 23.02.2022-25.02.2022, 28.02.2022, 01.03.2022, 02.03.2022
No. of Students attended	: 16 students from Mechatronics Engineering
Name of the External Institute	:Aadhyaa Skills Research and Development, Chennai

### **BOS 004.05**

Dr. K. Kannanpresented the details of Audit Course offered MTRE students

### **III Semester**

Name of the Audit Course

: Constitution of India

Course Duration

: 45 Hours

**IV Semester** 

Name of the Audit Course

: Design Thinking

Course Duration

: 45 Hours

### **BOS 004.06**

Dr. K. Kannan presented the List of Recommended NPTEL Courses to enroll by our students during VI & VII Semester under R2020.

### For Even Semester:

- Basics of Biology
- · Computer Networks and Internet Protocol
- · Block Chain and its applications'



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- E-Business
- Six Sigma
- Principles of Industrial Engineering
- Product design and Manufacturing

### For Odd Semester:

- Introduction to Industry 4.0 and Industrial Internet of Things
- Computer Vision
- · Renewable Energy
- Industrial safety Engineering
- · Operations and Supply chain management
- Work system Management
- · Engineering Metrology

### **BOS 004.07**

 Dr. K. Kannanpresented the List of Open Elective Courses to be offered to other departments.

#### **V** Semester

Name of the Open Elective Course

: Low Cost Automation

Course Duration and Credit

: 45 Hours & 3 Credits

Will be offered to

: ECE, EEE, EIE and Mech

### **VII Semester**

Name of the Audit Course

: Industrial Robotics

Course Duration and Credit

: 45 Hours & 3 Credits

Will be offered to

: AI&DS, CSE, IT, ECE, EEE and EIE



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### **BOS 004.08**

Dr. K. Kannanpresented the conduct of Integrated Theory Cum Practical Courses - R2020

# For Integrated Theory Cum Practical Courses - R2020

• Tot	al Marks (100) Comprises of Internal (40) and External (60)
• Inte	ernal Mark for Theory(20) is based on the three cycle test
• Inte	ernal Mark for Practical (20) is based on End Semester Practical Examinations

# BOS 004.09

**Dr. K. Kannan**presented the curriculum Framework for B.E Mechatronics Engineering R2021

Sl. No.	Category of Courses	Credits
1.	Foundation Courses	60 Credits
2.	Professional Core (PC)	60 Credits
3.	Professional Elective (PE)	18 Credits



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4.	Open Elective (OE)	6 credits
5.	Employability Enhancement Courses (EE)	26 Credits
6.	Online Courses (OL)	6 credits
7.	Program specific Value added courses	4 Credits
8.	Audit Courses (AU)	2 courses

Category of Courses in B	S.E Mechatronics Engineering
Semester	Total Credits
I	22
II	23
III	27
IV	25
V	25
VI	25
VII	25
VIII	8
Total	180

**BOS 004.10** 

Dr. K. Kannan presented the credit Assignment for B.E Mechatronics Engineering – R2021



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Contact Period per week	Credits
l Lecture (L) Period	1
1 Tutorial (T) Period	1
2 or 3 Laboratory (P) Periods (Laboratory / EM Courses like Seminar / Project work / Case Study etc.)	1
4 Laboratory (P) Periods (Laboratory / EM Courses like Seminar / Project work / Case Study etc.)	2

Duration of Industrial training / Internship	Credits
2 weeks	1
4 weeks	2
6 weeks	3

Note: One week = 40 internship hours

# Assessment Procedure for awarding Marks-R2021

	Category of	Marks				
S.No.	Course	Continuous Assessments	End Semester Examination			
1.	Theory Courses	40 %	60 %			
2.	Laboratory Courses	50 %	50 %			
3.	Theory Integrated with Laboratory Courses	Assessment through Theory – 20 % Assessment through Laboratory- 20 % Total – 40 %	Theory - 60 %			
4.	Laboratory Integrated with Theory Courses	Assessment through Theory - 15 % Assessment through Laboratory - 35 % (Total - 50 %)	Laboratory - 50 %			
5.	Project Work	60 %	40 %			
6.	Other Employability Enhancement Courses	100 %	30.00			



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Sl.No.	Category of	Marks				
	Course	Assessment for Theory	Assessment for Laboratory	End Semester Examination		
1.	Theory integrated with Laboratory	20 (Two Assessments)	20 (Continuous Evaluation)	60 (Theory Examination)		
2.	Laboratory integrated with Theory	(One Assessment)	35 (Continuous Evaluation)	50 (Laboratory Examination)		

# **BOS 004.11**

Dr. K. Kannanpresented the R2021 Curriculum for discussion and approval.

### **SEMESTERI**

Sl.No	Course Code Course Name	Credits				
51.140	Course Code	Course Ivame	L	T	P	C
		Theory				
1	SH2101	Technical English	3	0	0	3
2	MA2101	Matrices and Differential Calculus	3	1	0	4
3	PH2101	Engineering Physics	3	0	0	3



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4	GE2101	Principles of Engineering	3	0	0	3
5	EM2101	Coding Techniques - I	3	0	0	3
6	CY2101	Engineering Chemistry	3	0	0	3
	Practical					
7	MA2102	Mathematics Laboratory	0	0	2	1
8	PH2102	Physics Laboratory	0	0	3	1
9	EM2102	Coding Techniques - I Laboratory	0	0	3	1
I	Total Credits			1	8	22

# SEMESTERII

CLN	C C. I	Convections	Credits				
Sl.No	Sl.No CourseCode CourseName		L	T	P	C	
Γheory				à			
1	SH2151	ProfessionalEnglish	3	0	0	3	
2	MA2151	Vector Calculus, Complex Integration and Laplace Transform	3	1	0	4	
3	PH2151	Renewable Energy Sources	3	0	0	3	



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4	GE2151	EngineeringGraphics	2	0	3	3
5	GE2152	Environmental Science and Engineering	3	0	0	3
6	EM2151	CodingTechniques-II	3	0	0	3
Practical						
7	CY2151	ChemistryLaboratory	0	0	3	1
8	EM2152	Coding Techniques – IILaboratory	0	0	3	1
9	GE2153	Engineering Practices Laboratory	0	0	4	2
	Tota	ICredits	17	1	13	23

### **SEMESTERIII**

CLNo	C	CommoNomo	Credits				
Sl.No	CourseCode	CourseName	L	T	P	C	
Γheory							
1	MA2202	Transforms and Numerical Solution of Equations	3	1	0	4	
2	GE2251	Design Thinking	3	0	0	3	
3	ME2271	Engineering Mechanics	3	0	0	3	



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4	MT2201	Analog Devices and Circuits	3	0	0	3
5	MT2202	Fluid Mechanics and Thermal Sciences	3	0	0	3
6	MT2206	Electrical Circuits and Machines	3	0	0	3
7		Value Added Course				2
ractical						
ractical 8	MT2211	Computer Aided Drafting Laboratory	0	0	4	2
			0	0	4	2
8	MT2211	Laboratory Fluid Mechanics				

### **SEMESTERIV**

SI.No	CourseCode	CourseName		Credits		
31.110	CourseCode	Coursewanie	L	Т	Р	С
Theory						
1	MA2255	Probability, Statistics and Numerical Methods	3	1	0	4



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2	EE2271	Control Systems Engineering	3	0	0	3
3	EC2271	Digital Electronics	3	0	0	3
4	MT2251	Manufacturing Technology	3	0	0	3
5	MT2252	Sensors and Instrumentation	3	0	О	3
6	MT2253	Solid Mechanics	3	0	0	3
Practical		=				
7	MT2261	Manufacturing Technology Laboratory	0	0	4	2
8	MT2262	Sensors and Instrumentation Laboratory	0	0	4	2
9	MT2263	Solid Mechanics Laboratory	0	0	4	2
	Tota	alCredits	18	1	12	25

### **SEMESTERV**

SI.No	CourseCode	CourseName	Credits				
Oilito	Joursedout	Coursewante	L	Т	Р	С	
heory							



S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

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	Tot	talCredits	18	0	10	25
10	SH2152	Professional Communication Skill Development Laboratory	0	0	2	1
9	MT2313	Power Electronic converters and Drives laboratory	0	0	4	2
8	MT2312	Microprocessors and its Applications Laboratory	0	0	4	2
ractical		•				
7		Value Added Course				2
6		Open Elective-I	. 3	0	0	3
5		Professional Elective-II	3	0	0	3
4		Professional Elective-I	3	0	0	3
3	MT2303	Power Electronic converters and Drives	3	0	0	3
2	MT2302	Microprocessors and its Applications	3	0	0	3
1	MT2301	Machine Dynamics for Mechatronics Engineering	3	0	0	3

### SEMESTERVI

SI.No	CourseCode	CourseName	Credits			
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Γheory				¥		
1	GE2351	Principles of Management	3	0	0	3
2	MT2351	Fluid Power systems	3	0	0	3
3	MT2352	Industrial Automation	3	0	0	3
4	MT2353	Machine Design	3	0	0	3
5		Professional Elective-III	3	0	0	3
6		Professional Elective-IV	3	0	0	3
7		Online Course-I	-	-	-	3
Practical						
8	MT2361	Fluid Power systems Laboratory	0	0	4	2
9	MT2362	Industrial Automation Laboratory	0	0	4	2
	Tot	talCredits	18	0	8	25

### **SEMESTERVII**

SI.No	CourseCode	CourseName	Credits			
Ollivo	Joursesous	Courservanie	L	Т	Р	С



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heory						
1	MT2401	Computer Aided Design and Manufacturing	3	0	0	3
2	MT2402	Design of Mechatronics System	3	0	0	3
3	MT2403	Robotics and Machine Vision	3	0	0	3
4		Professional Elective-V	3	0	0	3
5		Professional Elective-VI	3	0	0	3
6		Open Elective-II	3	0	0	3
7		Online Course-II	-	-	-	3
Practical			л			
7	MT2411	Computer Aided Design and Manufacturing Laboratory	0	0	4	2
8	MT2413	Robotics and Machine Vision System Laboratory	0	0	4	2
	Tot	alCredits	18	0	8	25

### **SEMESTER VIII**

SI.No	CourseCode	CourseName	Credits			
31.140	Coursecode	Courservanie	L	Т	Р	С



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actical						
1	MT2451	Project Work	0	0	16	8
	Totali	Cradite	0	0	16	8
TotalCredits			0	0	16	

Members approved the proposed R2021 Curriculum.

Members suggested to include Machine Kinematics in Machine Dynamics for Mechatronics Engineering Course and to rename the course as Mechanism of Machines.

### **BOS 004.12**

Dr. K. Kannanpresented the III & IV Semester Syllabus of R2021 for discussion and approval.

Members discussed about the design thinking course in detail as it is moved from audit course to Core Course.

Dr.T.Asokan enquired about the contents of Mathematics Laboratory in detail.

### **BOS 004.13**

The BoS Coordinator Mr.A.Arulkumar AP/MTRE Proposed the vote of thanks.

(Dr.K.Kannan) BoS Chairman – MTRE

HOD / MTRE

th 23/03/2022.