



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by NAAC as 'A++' Approved by AICTE ISO 9001-2015 Certified

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA

Phone No: 08645 - 350200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002 Ph: +91 - 866 - 3500122, 2577715, 2576129

XXXXII Academic Council

Department of Mechanical Engineering

27th BOS meeting minutes

Minutes of the 27th BOS meeting-Mechanical Department held on 16-10-2024 in Hybrid mode in room no.M118(HOD Chamber) from 2:00 pm onwards.

Following is the link for the meeting

<https://kluniversity.webex.com/kluniversity/j.php?MTID=m314a153f7b7fe689a4f98696ed769e77>

The following members were present

1. Dr.T.Vijaya Kumar, Associate Professor, HOD-ME & Chairman BOS
2. Dr. A.Jagadeesh, Director-FED, Professor-ME
3. Dr. P. V. Chalapathi, Professor, Dean Faculty affairs
4. Dr. A.Srinath, Dean Skill Development & progression
5. Dr. D.V.A. Rama Sastry, Associate professor
6. Dr.G.Diwakar, Professor, PG Coordinator
7. Dr. V .L.Mangesh, Professor
8. Dr. P. Kasi V Rao, Associate Professor, Associate Dean Academics
9. Dr.K.V.Durga Rajesh, Associate Professor, Deputy HOD
10. Dr.B.Kiran Kumar, Associate professor
11. Dr .T. Kanthimathi, Assistant Professor, Professor I/C Academics
12. Dr.P.Raj Kumar, Assistant professor
13. Dr.A.Venu Gopal, Professor & Dean Academics, NIT Warangal
14. Dr. P. Srinivasa Rao, Global Training Head, Cyient Technologies, Hyderabad
15. Dr.K.Ravi Teja, Manager, Hyundai R & D Division, Hyderabad

The following members were Absent

1. Dr. K.RamaKrishna, Dean-Quality, Professor-ME
2. Dr.S.N.Padhi, Professor, Group Head-Design & Manufacturing
3. Dr. K.V. Narasimha Rao, Professor-ME, Associate Dean Quality
4. Dr.S.S.Rao, Professor, Group Head-Smart Manufacturing
5. Dr.N.B.V.Prasad, Dean Placements & International Internships
6. Dr. R.Vijay Kumar, Senior Manager, R & D, HAL Bangalore.
7. Dr. Gnana Murthy, Professor-Dept. of ME, IIT Madras


Dr. T.K. RAMA KRISHNA RAO
PRINCIPAL
College of Engineering
Koneru Lakshmaiah Education Foundation
(Deemed to be University)
Green fields, VADDESWAREM-522 302
Guntur District, Andhra Pradesh


DR. T. VIJAYA KUMAR 16/10/24
HOD-Mechanical Engineering
Koneru Lakshmaiah Education Foundation
(Deemed to be University)
Green Fields, VADDESWAREM-522 302.



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AGENDA and RESOLUTIONS

AGENDA ITEM-1

Agenda: To consider the department achievements during the A.Y. 2024-25 Odd Sem	Resolution Passed: The achievements made by the department is appreciated and forwarded to the academic council
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BOS chairman presented the following achievements of students & faculty of the department during 2024-25 odd sem to the BOS members

Honors received by Faculty:

- Dr. B. Nageswar Rao, Dr. M. Nageswar Rao, Dr. Atul Bhattad were honored as top 2% most cited scientists by Stanford University and Elsevier

Honors received by students:

- Mr. P. Abhiram Chowdary (2300070010), Won a grant of Rs. 40,000/- for his idea "Smart Car Parking" during Ideathon held at K L University by ACIC-KL Startups Foundation

Placement Details:

- 1 student was selected by Sansyu (Japanese Company) with 25 LPA.
- 1 student was selected Shikoku Kakoki Company Ltd. (Japanese Company) with 31 LPA.
- 1 student was selected for Deloitte with 7.6 LPA.
- 3 students were students selected for Procmart with 3 LPA.

Ph.D Details:

S. No.	Dept.	Name of the Faculty/Scholar	Name of the Supervisor	Month and Year
11	ME	K M V Ravi Teja	Dr. B. Nageswara Rao	September 2024
12	ME	A Sirisha Bhadrakali	Dr. D.V.A. Rama Sastry	September 2024
13	ME	A Munitanuja	Dr. B. Nageswara Rao	September 2024

Papers/Patents Published and papers presented by faculty:

- 74 papers were published in International Journals in the calendar year 2024 till date
- 2 Design and 3 utility patents were published in the present calendar year till date.

Vijaya Kumar
Dr. T. VIJAYA KUMAR 16/10/24
HOD-Mechanical Engineering
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BOS members congratulated the award winners and appreciated the efforts made by the department. The significant events of the 2023-24 Even Sem are given in **Annexure-1**.


AGENDA ITEM-2

Agenda: To approve the resolutions made in DAC meeting held on 08-10-2024

Resolution Passed: The resolutions made in DAC are approved and recommended the same to the Academic Council for further approval.

BOS Chairman presented the following DAC deliberations to the members

1. Mr. P.V.S.Rama Krishna Sarma.(2100079010), requested to include the simulation softwares other than Ansys like Hypermesh in regular courses.
It is proposed to include the Hypermesh in Finite Element Analysis course in addition to Ansys Software.
2. Mr. K.Tilak(2100079041) and Ms.K.Eesha (2300049018), requested to include CATIA modelling tool instead of Autodesk Fusion 360.
It is proposed to include CATIA in Visualization & Modelling of Engineering Design course instead of Autodesk Fusion 360 which is taught as certification course to all students. Dr. V.L. Mangesh replied to the student that it is not possible to teach all soft wares in the span of four years so, students have to learn few things on their own based upon their interest. He also suggested to do mathematical modelling in addition to simulation for final year project which gives more weightage.
3. Dr.G.Murali, suggested to validate the simulation results with the existing or published data to make the final year projects more worthy for publication in the journals
4. Final Year students Mr.Tilak and Mr. Rama Krishna complained that they are not able to participate in the Go-Kart events or in pit due to time constraints.
HOD, Dr.T.Vijaya Kumar suggested to the students that if they are interested to participate in GO-Kart events they need to stay beyond working hours and complete the task.
5. IInd Year students Mr.Joseph (2300070015) & Ms.Eshitha (2300070003) complained about the laboratory equipment in MOS and FMHM lab. They said the readings obtained by the UTM and the flow sensors in these labs are giving fluctuating results for each batch.
Dr.T.Vijaya Kumar-HOD informed students that the equipment will be repaired and the process is already started.
6. Mr. Sravan Kumar(2300070012) complained that Gas welding and TIG welding machine is not working in the manufacturing lab.
HOD replied to students that new Gas welding machine is purchased and it will be made available once it is installed.
7. Mr.Joseph (2300070015) requested to include lab to Basic Electrical Engineering course which is very much useful during projects.


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It is proposed to include lab for Basic Electrical Engineering course for the upcoming Y25 admitted batch and for Y23 & Y24 batch students it is proposed to arrange a workshop on this lab so that students will get good knowledge on the electrical equipment.

8. Dr.V.L.Mangesh informed to the members that the project review presentation of practise school/internship students is far better than the in house projects. He insisted that the guides should encourage students to do mathematical modelling instead of simply doing simulation and presenting the results.
9. Dr.V.L.Mangesh proposed to include Professor of Practice to thermal related course which includes boilers and power plants concepts.
10. Dr.B.Kiran Kumar suggested in the course closure minutes of 2023-24 Even Sem, to use power tools in workshop practices lab instead of manual tools since all most all industries are using power tools.

It is resolved to put forth the suggestion to the higher authorities for the purchase of power tools in workshop lab.

11. Dr.B.Kiran Kumar suggested in the course closure minutes of 2023-24 Even Sem, to arrange industrial visits for the course Modern Manufacturing Processes, so that students will be able to understand the latest manufacturing tools used in the industries.

Industrial visits are arranged for each batch of students in every semester. It is resolved to arrange the visits to the manufacturing industries using modern tools to make students more acquainted with the manufacturing practices in the industries.

12. Dr.T.Parameshwaran Pillai, professor, Anna University, Trichy, appreciated the efforts in framing the curriculum.

Chairman DAC, thanked the shareholder for his appreciation.

The DAC minutes are given in **Annexure-2**

Detailed Feed back analysis and action taken report is given in **Annexure-3**

Agenda item-2

Agenda-2: To discuss on the inputs given by 2024-25 Even Sem Course Coordinators	Resolution: It is resolved to put forth the recommendations given by course coordinators in the upcoming BOS
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No recommendations were made by the course coordinators

Agenda Item-3:

Agenda: To approve the B.Tech curriculum of Y24 admitted batch students and modifications proposed for Y23 batch curriculum	Resolution Passed: It is resolved to approve the curriculum of Y23 and Y24 admitted batch B.Tech students and to recommend the same to academic council for further approval.
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Vijaya Kumar
Dr. T. VIJAYA KUMAR 16/10/24
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Following are the deliberations made in the meeting in the curriculum of Y24 and Y23 admitted batch

- Department of ECE proposed “Nanotechnology and Optoelectronics” specialization under Biomedical Instrumentation cohort (E04), for Y24 admitted batch students.
- Department of EEE proposed “AI and Autonomous Systems” specialization under Smart Mobility and Autonomous Systems cohort for Y23, Y24 admitted batch students.

Since we are following NEP for campus the specializations proposed by other departments are applicable to Mechanical Branch students.

Detailed list of courses for these specializations is given in **Annexure-4**.

- Dr.Ravi Teja, external member enquired about the Hypermesh tool in Finite element analysis course and Autonomous vehicle course in Automotive & Energy Engineering specialization, Dr.Rama Sastry Associate Professor replied that geometric clean up and mesh editing is done using Hypermesh and analysis using Ansys. Dr.V.L.Mangesh, professor replied that the autonomous vehicle course is offered as multidisciplinary for all branch students.
- The course structure and syllabus of Y24 admitted batch students is designed in line with the requirements of industry, societal needs. The curriculum also incorporated the feedback received from stake holders.

It is resolved to propose the structure and curriculum of Y24 admitted batch B.Tech students

The course structure of Y24 admitted batch is given in **Annexure-5**.

Agenda Item-4:


Agenda: To approve the curriculum of M.Tech-Machine Design and M.Tech-Thermal Engineering programs of Y24 admitted batch students	Resolution Passed: It is resolved to approve the curriculum of Y24 admitted batch M.Tech-Machine Design and M.Tech Thermal Engineering programs and to recommend the same to academic council for further approval.
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- Chairman BOS presented the the course structure of 2024-25 admitted batch M.Tech-MD and M.Tech-TE programs.
It is resolved to approve the course structure of 2024-25 admitted batch M.Tech-MD and M.Tech-TE programs and put forth the same in the upcoming BOS.

The course structure of M.Tech-MD and M.Tech-TE programs is given in **Annexure-6**.

Agenda Item-5

Agenda-8: Any other point	Resolution: No other point was raised by the members
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Meeting Photos:

BOS Meeting

Participants (14)

Dr.T.Kanthimathi
Host, presenter

1441 VIJAYA KUMAR TA
Host, presenter

CR083
Co-host

B KIRAN KUMAR
Unverified (1)

Dean Skill & Progression

Diwakar
Unverified (1)

Dr D V A Ramasastry
Unverified (1)

Dr P Raj Kumar

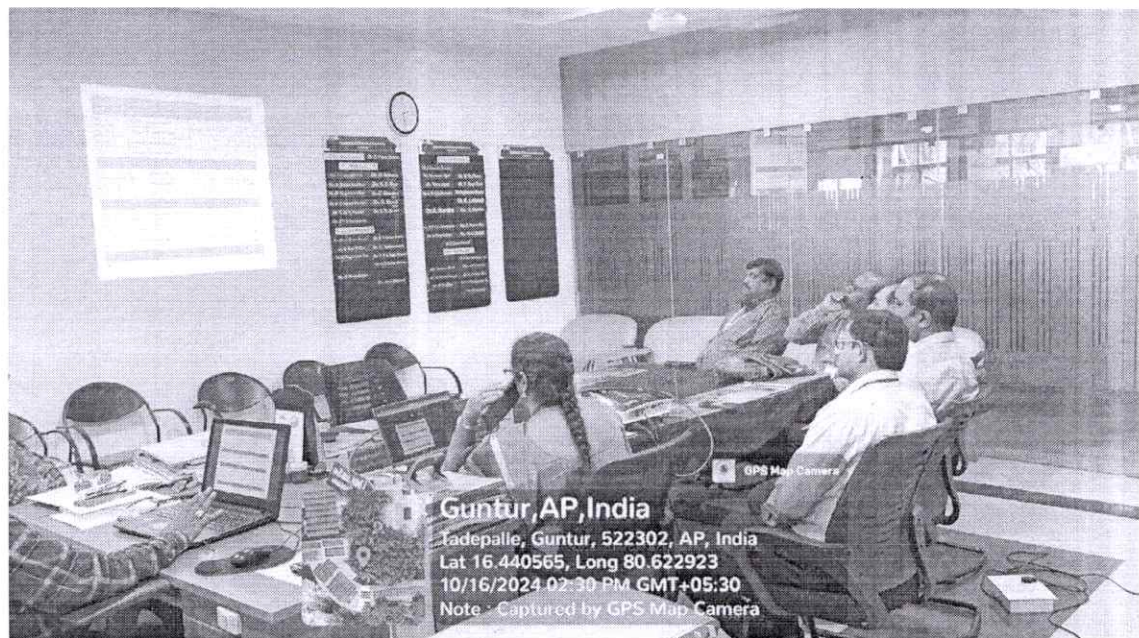
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Viewing 1441 VIJAYA KUMAR TADIKONDA's shared content

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Sl No	Course	COURSE CODE	COURSE NAME	L	T	P	S	D	CR
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2	ADP	210102	DEVELOPMENT OF QUALITY LECTURE NOTES	2	0	2	0	0	2
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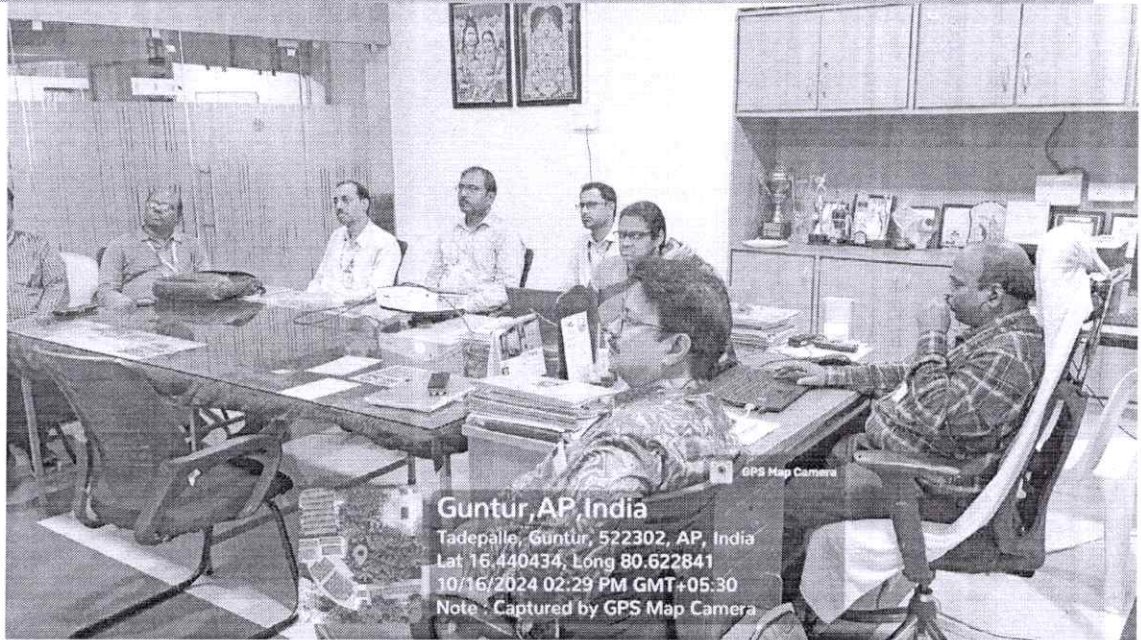
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Guntur, AP, India

Tadepalle, Guntur, 522302, AP, India

Lat 16.440434, Long 80.622841

10/16/2024 02:29 PM GMT+05:30

Note: Captured by GPS Map Camera

Professor I/C Academics

Chairman-BOS

16/10/24

HOD-ME

Dr. T. VIJAYA KUMAR

HOD-Mechanical Engineering

Koneru Lakshmaiah Education Foundation

(Deemed to be University)

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K L E F

Department of Mechanical Engineering

Significant Events happened in the Department from July-2024 to till date

1.0 Honours Received

1.1 Honours received by Faculty			
Dept.	Name of the Faculty	Details of Honors	By
ME	Dr. B. Nageswara Rao	2024 - Top 2% most cited scientists	Standford University and Elsevier
ME	Dr. M. Nageswara Rao		
ME	Dr. Atul Bhattad		

1.2 Honours received by Students			
Dept.	Name of the Student	Details of Honors	By
ME	Mr. P. Abhiram Chowdary (2300070010)	Won a grant of Rs. 40,000/- for his idea "Smart Car Parking" during Ideathon	Ideathon held at K L University by ACIC-KL Startups Foundation

1.3 Placements Details

Sl. No.	Company Name	No. of students selected	Package (in Lakhs)	Company profile
1	Sansyu (Japanese company)	1	25 LPA	
2	Shikoku Kakoki Co., Ltd (Japanese company)	1	31 LPA	
3	Deloitte	1	7.6 LPA	
4	Procmart	3	3 LPA	
5				

KL Department of Mechanical Engineering

CONGRATULATIONS



DHANIKA NAGASWALESWARA RAO
ID NO: 200079003
Mechanical Engineering
2025 graduating batch.

Company Name: **SANSYU ENGINEERING SERVICE - JAPAN (ZENKEN)**
CTC: Rs. 25 LPA in INR
4,355,000.00 Yen in Japanese Currency
Role: CAD Engineer

KL Department of Mechanical Engineering


CONGRATULATIONS



REPALLE NAREEM
ID NO: 200079050
Mechanical Engineering
2025 graduating batch.

Company Name: **SHIKOKU KAKOKI CO. LTD - JAPAN (ZENKEN)**
CTC: Rs. 31 LPA in INR
5281463.80 Yen in Japanese Currency
Role: Design Engineer

INTERNATIONAL PLACEMENT


Dr. T. VIJAYA KUMAR 16/10/24
HOD-Mechanical Engineering
Koneru Lakshmaiah Education Foundation
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1.4 Ph.D. awarded

S. No.	Dept.	Name of the Faculty/Scholar	Name of the Supervisor	Month and Year
1	ME	K M V Ravi Teja	Dr. B. Nageswara Rao	September 2024
2	ME	A Sirisha Bhadrakali	Dr. D.V.A. Rama Sastry	September 2024
3	ME	A Munitanuja	Dr. B. Nageswara Rao	September 2024

2.0 Research Publications

2.1 Number of Papers Published by Faculty

S. No	Dept.	National Journals	International Journals
1	ME		74 till date for Calendar year 2024

3.0 Consultancy , Patents And Citations

3.2 Patents

Patent Type	This Calendar Year			Cumulative		
	Design	Utility	Plant	Design	Utility	Plant
Filed	0	0	0	0	0	0
Published	2	3	0	281	32	0
Granted	0	0	0	0	1	0
Licensed	0	0	0	0	0	0
Total	2	3	0	281	33	0

3.3 Citations

- Dr. B. Nageswara Rao, Professor in ME has 423 citations in 2024 till date with total citations of 4505 with h-index 32.
- Dr. G. Murali, Professor in ME has 297 citations in 2024 till date with total citations of 910 till date with h-index 16.
- Dr. A. Jagadeesh, Professor in ME has 181 citations in 2024 till date with total citations of 1012 till date.
- Dr. K. Rama Krishna, Professor in ME has 93 citations in 2024 till date with total citations of 1189 with h-index 20.

Vijaya Kumar
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4.0 Seminars / Workshops

4.2 Conferences/workshop/seminar Conducted by the Department through Virtual/Offline Mode

S. No.	Dept.	Conference/Workshop/FDP/Seminar
1	ME	Workshop on "EV Vehicle Assembly Operations and Fault detection" by Gutta Jithendra Nath, Entrepreneur, ZEM (Zero Emission Mobility) Vehicles, Kanuru, Vijayawada on 04-10-2024

5.0 Guest Lectures/Webinar

5.1 Guest Lectures/Webinar Arranged through Virtual/Offline Mode

S. No.	Dept.	Name of the Event	Date	On Topic
1	ME	Visit of Foreign Professor 'Dr. Filipe Fernandes' from University of Coimbra, Portugal to KLEF (Deemed to be University) to teach and engage with our academic community	22nd July 2024 (Monday) to 27th July 2024 (Saturday)	Mechanical Engineering Course 'Manufacturing Technology - 22ME3313'
2	ME	Conducted Alumni Guest Lecture on "Overview on Mechanical Industries & Growth Opportunities" by Mr. Venkata Kumar Kancharla (Y0-Batch Y0IP224), Head-Production Engineering Department, TATA Hitachi, Dharwad, India, 2000-2004 batch of Industrial and Production Engineering, conducted by Smart Manufacturing Cohort	24-08-2024	Overview on Mechanical Industries & Growth Opportunities
3	ME	Conducted Alumni Guest Lecture on "Industrial Evolution in Green Hydrogen" by Mr. R Bala Venkata Murali (11207003), Senior Process Engineer, TATA Consulting Engineers, Bangalore, India., 2011-2013 batch of M.Tech (Thermal Engineering), conducted by Smart Manufacturing Cohort	25-09-2024	Industrial Evolution in Green Hydrogen

Vijaya Kumar
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4	ME	Conducted Webinar on "Digital Manufacturing, Zero Defects and Six Sigma" Mr. Khadar Basha Abdul, Technology Program Manager for Element Materials Technology, Overseeing Operations across the UK, Europe and East Asia regions, conducted by Smart Manufacturing Cohort	26-09-2024	Digital Manufacturing, Zero Defects and Six Sigma
5	ME	Conducted Industry Expert Guest Lecture on "Technology familiarization on Additive Manufacturing, 3D Scanning, Reverse Engineering and the future with Industry 4.0" by Mr. P Srimannarayana Raju, Engineer – Design and Development, Intech Additive Solutions Pvt. Ltd., Bangalore, conducted by Smart Manufacturing Cohort	28-09-2024	Technology familiarization on Additive Manufacturing, 3D Scanning, Reverse Engineering and the future with Industry 4.0

5.2 Guest Lectures / Keynote sessions Delivered by our Faculty in other Colleges / Universities

S. No.	Dept.	Name	At	Date	On Topic
1	ME	Dr. G. Murali, a distinguished professor of Mechanical Engineering and Alternate HOD of IRD at KL University, was invited to deliver a guest lecture at Aditya University, Surampalem, Kakinada, Andhra Pradesh. On 12-08-2024, he addressed the mechanical engineering students on the topic "An Overview of E-Vehicle Battery Cooling and Heating Technology"	Aditya University, Surampalem, Kakinada, Andhra Pradesh	12-08-2024	An Overview of E-Vehicle Battery Cooling and Heating Technology

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6.0 NSS Activities conducted through Virtual Mode			
S. No.	Dept.	Details of NSS Activities	Conducted On
1	ME	Independence Day Celebrations	15-08-2024
2	ME	Gandhi Jayanthi and Koneru Lakshmaiah gari vardhanthi, RSS events	02-10-2024



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CJRF+932, K.L. UNIVERSITY, Vaddeswaram, Andhra Pradesh 522303, India
Lat 16.440742°
Long 80.622830°
02/10/24 10:05 AM GMT+05:30



Vijayawada, AP, India
American Hospital Road, Labbipt, Vijayawada,
520002, AP, India
Lat 16.506102, Long 80.628568
10/02/2024 11:44 AM GMT+05:30
Note : Captured by GPS Map Camera

Vijaya Kumar
HOD-ME 16/10/24
Dr. T. VIJAYA KUMAR
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KLEF

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF DEPARTMENT ACADEMIC COMMITTEE (DAC)

Date: 08-10-2024

The 26th Department Academic Committee (DAC) Meeting was conducted at 3:00 P.M. on 08/10/2024 in HOD Cabin.

Agenda of the Meeting:

1. To discuss on the feedback given by the stakeholders on curriculum and put forth the recommendations in the upcoming BOS
2. To discuss on the revisions and modifications suggested by the course coordinators of 2024-25 Even Sem and put forth the same in the upcoming BOS for further approval.
3. To discuss about the curriculum and syllabus of Y24 admitted batch students and to put forth the same in the upcoming BOS.
4. To discuss 2024-25 M.Tech-Machine Design and M.Tech-Thermal Engineering programs
5. Any other point with the permission of the chair.

The following members were present:

1. Dr. T. Vijaya Kumar, Associate Professor & HOD, Chairman
2. Dr. S. N. Padhi, Professor & Cohort Professor In charge-Engineering Design, Member
3. Dr. S.S Rao, Professor, Cohort Professor Incharge-Smart Manufacturing, Member
4. Dr. G. Murali, Professor, RPAC & Cohort Professor Incharge-Energy & CFD, Member
5. Dr. G. Diwakar, Professor, PG Coordinator, Member
6. Dr.V.L.Mangesh, Professor, Dept. Students projects and Internship Coordinator
7. Dr.A.V.S.Ram Prasad, Associate Professor
8. **Dr. T. Kanthimathi, Assistant Professor & Prof. I/C Academics, Member**
9. Mr. A. Bala yaswanth Sai Reddy (2401130005), I/II M.Tech. (MD)
10. Mr. P.Vamsi (2401130001) I/II M.Tech. (MD)
11. Mr. K.Thilak (2100079041), IV/IV B.Tech
12. Mr.P.V.S.Rama Krishna Sarma.(2100079010), IV/IV B.Tech
13. Ms.K.Eesha,(2300079018), II/II B.Tech
14. Ms.M.Eshitha, (2300070003), II/II B.Tech
15. Mr.J.Sravan Kumar, (2300070012), II/II B.Tech
16. Mr. D.Joseph Jakwes, (2300070015), II/II B.Tech
17. Mr. V.Sai Ananth, (2300070011), II/II B.Tech


Dr. T. VIJAYA KUMAR 6/10/24
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Agenda-1: To discuss on the feedback given by stake holders

Resolution: It is resolved to approve the feedback given by stake holders and to put forth the same in the coming BOS.

1. Mr. P.V.S.Rama Krishna Sarma.(2100079010), requested to include the simulation softwares other than Ansys like Hypermesh in regular courses.
It is proposed to include the Hypermesh in Finite Element Analysis course in addition to Ansys Software.
2. Mr. K.Tilak(2100079041) and Ms.K.Eesha (2300049018), requested to include CATIA modelling tool instead of Autodesk Fusion 360.
It is proposed to include CATIA in Visualization & Modelling of Engineering Design course instead of Autodesk Fusion 360 which is taught as certification course to all students. Dr. V.L. Mangesh replied to the student that it is not possible to teach all soft wares in the span of four years so, students have to learn few things on their own based upon their interest. He also suggested to do mathematical modelling in addition to simulation for final year project which gives more weightage.
3. Dr.G.Murali, suggested to validate the simulation results with the existing or published data to make the final year projects more worthy for publication in the journals
4. Final Year students Mr.Tilak and Mr. Rama Krishna complained that they are not able to participate in the Go-Kart events or in pit due to time constraints.
HOD, Dr.T.Vijaya Kumar suggested to the students that if they are interested to participate in GO-Kart events they need to stay beyond working hours and complete the task.
5. IInd Year students Mr.Joseph (2300070015) & Ms.Eshitha (2300070003) complained about the laboratory equipment in MOS and FMHM lab. They said the readings obtained by the UTM and the flow sensors in these labs are giving fluctuating results for each batch.
Dr.T.Vijaya Kumar-HOD informed students that the equipment will be repaired and the process is already started.
6. Mr. Sravan Kumar(2300070012) complained that Gas welding and TIG welding machine is not working in the manufacturing lab.
HOD replied to students that new Gas welding machine is purchased and it will be made available once it is installed.
7. Mr.Joseph (2300070015) requested to include lab to Basic Electrical Engineering course which is very much useful during projects.
It is proposed to include lab for Basic Electrical Engineering course for the upcoming Y25 admitted batch and for Y23 & Y24 batch students it is proposed to arrange a workshop on this lab so that students will get good knowledge on the electrical equipment.
8. Dr.V.L.Mangesh informed to the members that the project review presentation of practise school/internship students is far better than the in house projects. He

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insisted that the guides should encourage students to do mathematical modelling instead of simply doing simulation and presenting the results.

9. Dr.V.L.Mangesh proposed to include Professor of Practice to thermal related course which includes boilers and power plants concepts.

10. Dr.B.Kiran Kumar suggested in the course closure minutes of 2023-24 Even Sem, to use power tools in workshop practices lab instead of manual tools since all most all industries are using power tools.

It is resolved to put forth the suggestion to the higher authorities for the purchase of power tools in workshop lab.

11. Dr.B.Kiran Kumar suggested in the course closure minutes of 2023-24 Even Sem, to arrange industrial visits for the course Modern Manufacturing Processes, so that students will be able to understand the latest manufacturing tools used in the industries.

Industrial visits are arranged for each batch of students in every semester. It is resolved to arrange the visits to the manufacturing industries using modern tools to make students more acquainted with the manufacturing practices in the industries.

12. Dr.T.Parameshwaran Pillai, professor, Anna University, Trichy, appreciated the efforts in framing the curriculum.

Chairman DAC, thanked the shareholder for his appreciation.

Agenda-2: To discuss on the inputs given by 2024-25 Even Sem Course Coordinators	Resolution: No recommendations were made
----------------------------------------------------------------------------------	------------------------------------------

No recommendations were made by course coordinators

Agenda-3: To discuss on the proposed curriculum and syllabus of Y24 admitted batch B.Tech students	Resolution: It is resolved to propose the curriculum and syllabus of Y24 admitted batch B.Tech students and put forth the same in the upcoming BOS for further approval
----------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- Department of ECE proposed "Nanotechnology and Optoelectronics" specialization under Biomedical Instrumentation cohort (E04), for Y24 admitted batch students.

- Department of EEE proposed "AI and Autonomous Systems" specialization under Smart Mobility and Autonomous Systems cohort for Y23, Y24 admitted batch students.

Since we are following NEP for campus the specializations proposed by other departments are applicable to Mechanical Branch students.

- The course structure and syllabus of Y24 admitted batch students is designed in line with the requirements of industry, societal needs. The curriculum also incorporated the feedback received from stake holders.


DR. T. VIJAYA KUMAR 6/10/24
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It is resolved to propose the structure and curriculum of Y24 admitted batch B.Tech students.

Agenda-4: To discuss on the course structure of 2024-25 admitted batch M.Tech-MD and M.Tech-TE programs

Resolution: It is resolved to approve the course structure of 2024-25 admitted batch M.Tech-MD and M.Tech-TE programs and put forth the same in the upcoming BOS

- Chairman DAC presented the the course structure of 2024-25 admitted batch M.Tech-MD and M.Tech-TE programs.

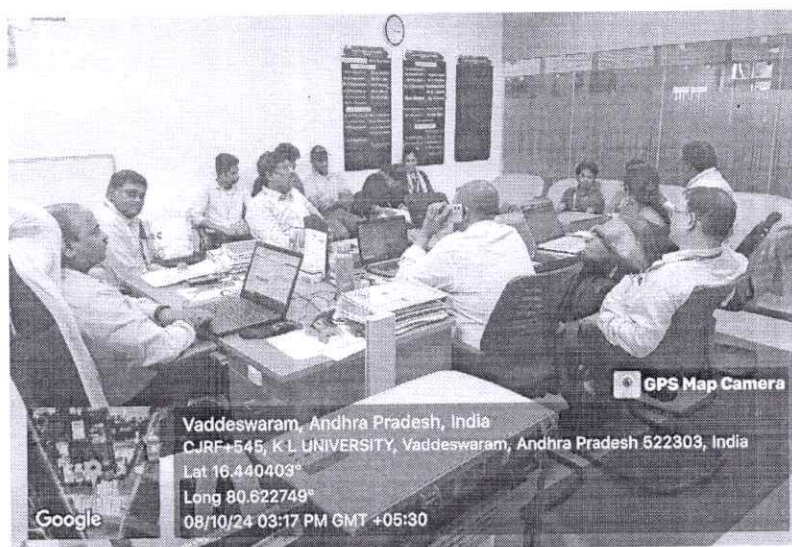
It is resolved to approve the course structure of 2024-25 admitted batch M.Tech-MD and M.Tech-TE programs and put forth the same in the upcoming BOS.

Agenda-8: Any other point: Result analysis, placement analytics

Resolution: It is resolved to approve the result analysis and placement analytics of present and previous semester

- The result analysis of 2023-24 even sem is done and the OBE attainment is done based on it Gap analysis is performed
- The 2024-25 Sem-in-I result analysis is done and the students who got less than 50% marks are identified and the remedial classes are being conducted for those students.
- The placement analysis for the Y21 admitted batch students is done and the same is presented in significant events of BOS annexure.

.Meeting Photos:



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Vaddeswaram, Andhra Pradesh, India

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Professor I/C Academics

Chairman-DAC
HOD-ME 16/10/24
Dr. T. VIJAYA KUMAR
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DEPARTMENT OF MECHANICAL ENGINEERING

Stake Holder Feedback Analysis and Action Taken Report

Academic Year: 2024-25 Even Sem

S.No	Stake Holders	Count
1	Academic Peers	18
2	Alumni	15
3	Faculty	13
4	Industry personnel	10
5	Parents	9
6	Students	92
	Total	157

Academic Peers

Sl.No.	Department	Name of the Programme	Details of Stake Holder	Recommendations / Suggestion(s)	Analysis	Action Taken	DAC No.	Pg No.	Date	BOS No.	Pg NO.	Date
1	ME	B.Tech	Dr.T. pramaeswaran Pillai, Professor, Anna University, Trichy	Appreciated the efforts in framing the curriculum	Curriculum is designed in line with Industry needs	Chairman -DAC thanked the stake holder	26	3	08-10-2024	27	2	16-10-2024

Alumni

Sl.No.	Department	Name of the Programme	Details of Stake Holder	Recommendations / Suggestion(s)	Analysis	Action Taken	DAC No.	Pg No.	Date	BOS No.	Pg NO.	Date
1	1											

Faculty

Sl.No.	Department	Name of the Programme	Details of Stake Holder	Recommendations / Suggestion(s)	Analysis	Action Taken	DAC No.	Pg No.	Date	BOS No.	Pg NO.	Date
1	ME	B.Tech	Dr..Murali, Energy & CFD Cohort Professor In charge	Suggested the final year project guides to insist students to validate the simulation results with the experimental values or published data	Validation of simulation results will make the project worthy for publication	It is resolved to instruct the project guides to accept the projects only if the validation of simulation results is done by the students	26	2	08-10-2024	27	2	16-10-2024

Vijaya Kumar
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2	ME	B.Tech	Dr.V.L.Mangesh, Projects and Internships incharge	Suggested to do mathematical modelling in addition to simulation for final year year projects	Mathematical modelling makes the students to apply the concepts of courses he learned during his degree program	It is resolved to instruct the final year studentns to use mathematical modelling wherever applicable in their projects.	26	2	08-10-2024	27	2	16-10-2024
3	ME	B.Tech	Dr.V.L.Mangesh, Projects and Internships incharge	Suggested to include Professor of Practice for thermal related courses which includes boilers and power plants concepts	Students will understand better if an industrialist explains these concepts	It is resolved to include professor of practice for thermal related courses which includes boilers and power plant concepts	26	3	08-10-2024	27	2	16-10-2024
4	ME	B.Tech	Dr.B.Kiran Kumar, Associate Professor	Suggested to use power tools in workshop practices lab and also to plan for industrial visits as part of Modern manufacturing Processes course	Present industries are using power tools instead of manual tools and the industrial visits to studentns will enhance the knowledge on modern manufacturing processes in the present industry	It is resolved to pain for the procurement of power tools for workshop practices course and to plan for industrial tours to manufacturing industries	26	3	08-10-2024	27	2	16-10-2024

Industry Personnel


Sl.No.	Department	Name of the Programme	Details of Stake Holder	Recommendations / Suggestion(s)	Analysis	Action Taken	DAC No.	Pg No.	Date	BOS No.	Pg NO.	Date
1	ME											

Parent


Sl.No.	Department	Name of the Programme	Details of Stake Holder	Recommendations / Suggestion(s)	Analysis	Action Taken	DAC No.	Pg No.	Date	BOS No.	Pg NO.	Date
1	ME	B.Tech		-	-	-	-		-			

Student

Sl.No.	Department	Name of the Programme	Details of Stake Holder	Recommendations / Suggestion(s)	Analysis	Action Taken	DAC No.	Pg No.	Date	BOS No.	Pg NO.	Date
1	ME	B.Tech	Mr.P.V.S.Rama Krishna IV Year (2100079010)	Requested to include the simulation softwares other than Ansys like Hypermesh in regular courses	During Interviews Placements companies are asking about Hypermesh	It is proposed to include the Hypermesh in Finite Element Analysis course in addition to Ansys Software.	26	2	08-10-2024	27	2	16-10-2024


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2	ME	B.Tech	Mr. K.Tilak-IV Year (2100079041) & Ms.Eesha-II Year (2300049018)	Requested to include CATIA modelling tool instead of Autodesk Fusion 360.	Autodesk Fusion 360 is taught as certificate course and CATIA is not included in any course	It is proposed to include CATIA in Visualization & Modelling of Engineering Design course instead of Autodesk Fusion 360	26	2	08-10-2024	27	2	16-10-2024
3	ME	B.Tech	Mr. K.Tilak-IV Year (2100079041) & Mr.P.V.S. RamaKrishna-IV Year (2100079010)	Requested to allot time to participate in GO-KART activities	GO-KART activities need to be done after college hours	IT is suggested to students that if they are interested in GO-KART activities they need to stay beyond college hours to complete the work	26	2	08-10-2024	27	2	16-10-2024
4	ME	B.Tech	Mr.Joseph-II Year(2300070015), Ms.Eshitha-II year(2300070003) & Mr.Sravan Kumar-II Year (2300070012)	Requested to repair the Gas welding equipment and also the machines in FMHM & MOS lab	UTM machine and flow sensors in these labs are giving fluctuationg results for different batches	Students were informed the equipment will be repaired and the process is started	26	2	08-10-2024	27	2	16-10-2024
5	ME	B.Tech	Mr.Joseph-II Year(2300070015)	Requested to include lab to Basic Electrical Engineering course	Lab for this course which is very much useful during projects	It is proposed to include lab for Basic Electrical Engineering course for the upcoming Y25 admitted batch and for Y23 & Y24 batch students it is proposed to arrange a workshop on this lab so that students will get good knowledge on the electrical equipment.	26	2	08-10-2024	27	2	16-10-2024


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Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002 Ph: +91 - 866 - 3500122, 2577715, 2576129.

List of Courses under “**AI and Autonomous Systems**” Specialization under Smart Mobility and Autonomous Systems Cohort offered by Department of Electrical & Electronics Engineering


S.No.	PE #	Course Name
1	PE-1	AI AND CONTROLS FOR AUTONOMOUS FUTURE TRANSPORT
2	PE-2	AUTONOMOUS VEHICLE ECU DESIGN WITH AUTOSAR
3	PE-3	AUTONOMOUS ELECTRIC MOBILITY - SYSTEMS AND APPLICATIONS
4	PE-4	CYBERSECURITY IN AUTONOMOUS VEHICLE
5	PE-5	AI DRIVEN ECU DESIGN FOR AUTONOMOUS VEHICLES
6	SDC-4	EVT HARDWARE PROTOTYPING

List of Courses under “**Nanotechnology and Optoelectronics**” Specialization under Biomedical Instrumentation Cohort offered by Department of Electronics & Communication Engineering

S.No.	PE #	Course Name
1	FC-1	FUNDAMENTALS OF NANOTECHNOLOGY
2	FC-2	NANOSCALE IMAGING AND ANALYSIS
3	PE-1	THIN FILM TECHNOLOGIES FOR NANOELECTRONICS
4	PE-1	NANOSCALE ENGINEERING FOR CLEAN ENERGY
5	PE-2	NANOTECHNOLOGY AND NANOSENSORS
6	PE-2	NANOPHOTONICS AND BIOPHOTONICS
7	PE-3	NANOMATERIALS FOR BIO-MEDICAL APPLICATIONS
8	PE-3	NANOROBOTICS FOR ADVANCED APPLICATIONS
9	PE-4	COMPUTATIONAL DATA SCIENCE FOR NANOTECHNOLOGY
10	PE-4	INDUSTRIAL NANOTECHNOLOGY
11	PE-5	BIOSENSING AND BIOELECTRONICS
12	PE-5	MICRO/NANO FLUIDIC SYSTEMS FOR SENSORS
13	SDC-3	OPTICAL SENSORS DESIGN
14	SDC-4	NANOELECTRONICS FOR IOT
15	OE-1	HYBRID NANO ELECTRONIC DEVICES AND PACKAGING TECHNOLOGY



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K L E F Department of Mechanical Engineering B.Tech 2024-25 Admitted Batch Category wise Course Structure														
S.No.	Category	Sub-Cat	Cohort	Course Code	Course Name	Short Name	Mode	L	T	p	S	Cr	CH	Pre-requisite
1	HAS	HAS-CORE	777	23UC0026	HUMAN VALUES, GENDER EQUALITY & PROFESSIONAL ETHICS	HGP	R	2	0	0	0	2	2	NIL
2	HAS	HAS-CORE	M57	23UC0027	LEADERSHIP AND MANAGEMENT SKILLS	LAMS	R	0	0	4	0	2	4	NIL
3	HAS	HAS-CORE	999	24UC1203	DESIGN THINKING AND INNOVATION	DTI	R	2	0	2	0	3	4	NIL
4	HAS	HAS-CORE	M51	24UC1102	LANGUAGE SKILLS FOR ENGINEERS	LSE	R	0	0	4	0	2	4	NIL
5	HAS	HAS-CORE	M51	24UC1204	COMMUNICATION SKILLS FOR ENGINEERS	CSFE	R	0	0	4	0	2	4	NIL
6	HAS	HAS-FLE	M51	FL	FOREIGN LANGUAGE	FL	R	3	0	0	0	3	3	NIL
7	HAS	HAS-MGE	E25	23MB4067	INDUSTRIAL MANAGEMENT & PRODUCTION PLANNING	IMPP	R	4	0	0	0	4	4	NIL
TOTAL								11	0	14	0	18	25	
8	BSC	BSC-CORE	M41	23MT1001	LINEAR ALGEBRA AND CALCULUS FOR ENGINEERS	LACE	R	2	2	0	0	4	4	NIL
9	BSC	BSC-ME-1	E14	23MT2010	COMPUTATIONS IN APPLIED MECHANICS AND STATISTICS	CAMS	R	2	2	0	0	4	4	NIL
10	BSC	BSC-ME-2	E25	23MT2011	OPTIMIZATION TECHNIQUES FOR MECHANICAL ENGINEERS	OTQ	R	2	2	0	0	4	4	NIL
11	BSC	BSC-SE-2	E25	23ME1005	MATERIAL SCIENCE & METALLURGY	MSM	R	3	0	2	0	4	5	NIL
12	BSC	BSC-SE-2	M50	24CY1001	ENGINEERING CHEMISTRY	ECY	R	3	0	2	0	4	5	NIL
TOTAL								10	4	4	0	20	18	
13	ESC	ESC-CORE	E02	24AD2001R	ARTIFICIAL INTELLIGENCE & MACHINE LEARNING	AIML	R	3	0	2	0	4	5	NIL
14	ESC	ESC-CORE	E06	24SC1102	COMPUTATIONAL THINKING FOR PROBLEM SOLVING	CTP	R	3	0	2	4	5	9	NIL
15	ESC	ESC-CORE	E06	24SC1204	DATA STRUCTURES USING PYTHON	DSP	R	3	0	2	4	5	9	CTP

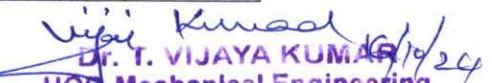

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16	ESC	ESC-CORE	E06	24SC2105O	COMPUTATIONAL THINKING FOR OBJECT-ORIENTED DESIGN	CTOD	O	3	0	2	0	4	5	CTP
17	ESC	ESC-CORE	E15	23ME1001	ENGINEERING MECHANICS	EM	R	3	0	0	0	3	3	NIL
18	ESC	ESC-CORE	E15	23ME1002	ENGINEERING GRAPHICS	EG	R	0	0	4	0	2	4	NIL
19	ESC	ESC-CORE	E15	23ME1103	DESIGN TOOL WORKSHOP	DTW	R	0	0	4	0	2	4	NIL
20	ESC	ESC-CORE	E25	23ME1004	WORKSHOP PRACTICES FOR ENGINEERS	WPE	R	0	0	4	0	2	4	NIL
21	ESC	ESC-CORE	E29	23EC1203	BASIC ELECTRICAL AND ELECTRONIC CIRCUITS	BEEC	R	2	0	0	0	2	2	NIL
TOTAL								17	0	20	8	29	45	
22	PCC	PCC-CORE	E14	23ME2107	THERMODYNAMICS	TD	R	3	0	0	0	3	3	NIL
23	PCC	PCC-CORE	E14	23ME2116R	FLUID MECHANICS & HYDRAULIC MACHINES	FMHM	R	3	0	2	0	4	5	NIL
24	PCC	PCC-CORE	E14	23ME3110A	HEAT TRANSFER	HT	A	4	0	4	0	6	8	TD
25	PCC	PCC-CORE	E14	23ME3110E	HEAT TRANSFER	HT	E	4	0	4	0	6	8	TD
26	PCC	PCC-CORE	E14	23ME3110R	HEAT TRANSFER	HT	R	3	0	2	0	4	5	TD
27	PCC	PCC-CORE	E14	23ME3112R	THERMAL SYSTEMS ENGINEERING	TSE	R	2	1	0	4	4	7	TD
28	PCC	PCC-CORE	E15	23ME2106A	MECHANICS OF SOLIDS	MOS	A	4	0	4	0	6	8	EM
29	PCC	PCC-CORE	E15	23ME2106E	MECHANICS OF SOLIDS	MOS	E	4	0	4	0	6	8	EM
30	PCC	PCC-CORE	E15	23ME2106R	MECHANICS OF SOLIDS	MOS	R	3	0	2	0	4	5	EM
31	PCC	PCC-CORE	E15	23ME2209A	KINEMATICS & DYNAMICS OF MACHINES	KDOM	A	4	1	4	0	7	9	EM
32	PCC	PCC-CORE	E15	23ME2209E	KINEMATICS & DYNAMICS OF MACHINES	KDOM	E	4	1	4	0	7	9	EM
33	PCC	PCC-CORE	E15	23ME2209R	KINEMATICS & DYNAMICS OF MACHINES	KDOM	R	3	1	2	0	5	6	EM
34	PCC	PCC-CORE	E15	23ME3111A	MECHANICAL ENGINEERING DESIGN	MED	A	4	1	0	0	5	5	MOS


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35	PCC	PCC-CORE	E15	23ME3111E	MECHANICAL ENGINEERING DESIGN	MED	E	4	1	0	0	5	5	MOS
36	PCC	PCC-CORE	E15	23ME3111R	MECHANICAL ENGINEERING DESIGN	MED	R	3	0	0	0	3	3	MOS
37	PCC	PCC-CORE	E15	23ME3214A	MACHINE DESIGN	MD	A	4	0	4	0	6	8	MED
38	PCC	PCC-CORE	E15	23ME3214E	MACHINE DESIGN	MD	E	4	0	4	0	6	8	MED
39	PCC	PCC-CORE	E15	23ME3214R	MACHINE DESIGN	MD	R	3	0	2	0	4	5	MED
40	PCC	PCC-CORE	E25	23ME2208	MANUFACTURING PROCESSES	MP	R	3	0	2	0	4	5	WPE
41	PCC	PCC-CORE	E25	23ME3113A	MANUFACTURING TECHNOLOGY	MT	A	3	0	4	0	5	7	MP
42	PCC	PCC-CORE	E25	23ME3113E	MANUFACTURING TECHNOLOGY	MT	E	3	0	4	0	5	7	MP
43	PCC	PCC-CORE	E25	23ME3113R	MANUFACTURING TECHNOLOGY	MT	R	2	0	2	0	3	4	MP
44	PCC	PCC-CORE	E25	23ME3215	DIGITAL MANUFACTURING & ROBOTICS	DMR	R	3	0	0	0	3	3	KDOM
TOTAL								31	2	14	4	41	51	
45	FCC	FC-1			FLEXI CORE		F	2	0	2	0	3	4	NIL
TOTAL								2	0	2	0	3	4	
46	SDC	SDP-1			SKILL DEVELOPMENT-1	LAA	R	0	0	2	4	2	6	NIL
47	SDC	SDP-2			SKILL DEVELOPMENT-2	LAA	R	0	0	2	4	2	6	NIL
48	SDC	SDP-3			SKILL DEVELOPMENT-3	LAA	R	0	0	2	4	2	6	NIL
49	SDC	SDP-4			SKILL DEVELOPMENT-4	DAV	R	0	0	2	4	2	6	
TOTAL								0	0	8	16	8	24	
50	PE	PE-1			PROFESSIONAL ELECTIVE-1	PE-1	R	3	0	2	4	5	9	
51	PE	PE-2			PROFESSIONAL ELECTIVE-2	PE-2	R	3	0	0	0	3	3	


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52	PE	PE-3			PROFESSIONAL ELECTIVE-3	PE-3	R	3	0	2	4	5	9	
53	PE	PE-4			PROFESSIONAL ELECTIVE-4	PE-4	M	4	0	0	0	4	4	
54	PE	PE-5			PROFESSIONAL ELECTIVE-5	PE-5	R	3	0	0	0	3	3	
TOTAL								16	0	4	8	20	28	
55	PRI	PRI-CORE	555	23IE2040	SOCIAL INTERNSHIP	SIP	R	0	0	0	4	0	4	NIL
56	PRI	PRI-CORE	555	23IE3041	TECHNICAL INTERNSHIP	TIP	R	0	0	0	4	0	4	NIL
57	PRI	PRI-CORE	555	23IE4053R	CAPSTONE PROJECT - 1	CP-1	R	0	0	8	16	8	24	NIL
58	PRI	PRI-CORE	555	23IE4054R	CAPSTONE PROJECT - 2	CP-2	R	0	0	8	16	8	24	NIL
TOTAL								0	0	16	36	16	52	
59		OE			OPEN ELECTIVE-1	OE-1	R	4	0	0	0	4	4	NIL
60		OE			OPEN ELECTIVE-2	OE-2	R	4	0	0	0	4	4	NIL
61		OE			OPEN ELECTIVE-3	OE-3	R	4	0	0	0	4	4	NIL
TOTAL								12	0	0	0	12	12	
62		VAC			VAC-SPORTS	SPORTS	R	0	0	0	2	0	2	NIL
63		VAC			VAC-CERT-1	VAC-CERT	R	0	0	0	8	0	8	NIL
64		VAC			VAC-CERT-2	VAC-CERT	R	0	0	0	8	0	8	NIL
65		VAC			VAC-CERT-3	VAC-CERT	R	0	0	0	8	0	8	NIL
TOTAL								0	0	0	26	0	26	
66	AUC	AUC-CORE	555	23UC0013	GLOBAL LOGIC BUILDING CONTEST PRACTICUM	GLBCP	R	0	0	0	2	0	2	NIL
67	AUC	AUC-CORE	555	23UC0014	GLOBAL LOGIC BUILDING CONTEST PRACTICUM	GLBCP	R	0	0	0	2	0	2	NIL


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68	AUC	AUC-CORE	M12	23UC0008	INDIAN CONSTITUTION	IC	R	2	0	0	0	0	2	NIL
69	AUC	AUC-CORE	M44	24UC0017	INDIAN KNOWLEDGE SYSTEMS: VEDIC MATHEMATICS	IKSVM	R	2	0	0	0	0	2	NIL
70	AUC	AUC-CORE	M49	23UC0009	ECOLOGY AND ENVIRONMENT	E&E	R	2	0	0	0	0	2	NIL
TOTAL								6	0	0	4	0	10	
71	SIL	SIL-CORE	666	22UC0021	SOCIAL IMMERSIVE LEARNING	SIL-1	R	0	0	0	4	1	4	NIL
72	SIL	SIL-CORE	666	22UC0022	SOCIAL IMMERSIVE LEARNING	SIL-2	R	0	0	0	4	1	4	NIL
73	SIL	SIL-CORE	666	22UC0023	SOCIAL IMMERSIVE LEARNING	SIL-3	R	0	0	0	4	1	4	NIL
TOTAL								0	0	0	12	3	12	
GRAND TOTAL								105	6	82	114	170	307	


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DEPARTMENT OF MECHANICAL ENGINEERING

LIST OF SKILL DEVELOPMENT COURSES OFFERED TO Y24 ADMITTED BATCH STUDENTS

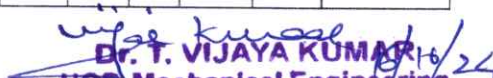
S.NO	Category	SDP#	COHORT	Course Code	Course Name	Short Name	Mode	L	T	P	S	CR	CH	Pre-Requisite
1	SDC	SDP-1	E15	23SDME01A	VISUALIZATION AND MODELLING FOR ENGINEERING DESIGN(Fusion 3	VMED	A	0	0	6	4	4	10	NIL
2	SDC	SDP-1	E15	23SDME01E	VISUALIZATION AND MODELLING FOR ENGINEERING DESIGN(Fusion 3	VMED	E	0	0	6	4	4	10	NIL
3	SDC	SDP-1	E15	23SDME01R	VISUALIZATION AND MODELLING FOR ENGINEERING DESIGN(Fusion 3	VMED	R	0	0	2	4	2	6	NIL
4	SDC	SDP-2	E25	23SDME02A	COMPUTER INTEGRATED MANUFACTURING(CNC Train))	CIDM	A	0	0	6	4	4	10	NIL
5	SDC	SDP-2	E25	23SDME02E	COMPUTER INTEGRATED MANUFACTURING(CNC Train))	CIDM	E	0	0	6	4	4	10	NIL
6	SDC	SDP-2	E25	23SDME02R	COMPUTER INTEGRATED MANUFACTURING(CNC Train))	CIDM	R	0	0	2	4	2	6	NIL
7	SDC	SDP-3	E15	23SDME03A	FINITE ELEMENT ANALYSIS(Ansys & Hypermesh)	FEA	A	0	0	6	4	4	10	NIL
8	SDC	SDP-3	E15	23SDME03E	FINITE ELEMENT ANALYSIS(Ansys & Hypermesh)	FEA	E	0	0	6	4	4	10	NIL
9	SDC	SDP-3	E15	23SDME03R	FINITE ELEMENT ANALYSIS(Ansys & Hypermesh)	FEA	R	0	0	2	4	2	6	NIL
10	SDC	SDP-4	E14	23SDME04A	ANALYSIS OF ENERGY SYSTEMS(Ansys Fluent)	AES	A	0	0	6	4	4	10	TD
11	SDC	SDP-4	E14	23SDME04E	ANALYSIS OF ENERGY SYSTEMS(Ansys Fluent)	AES	E	0	0	6	4	4	10	TD
12	SDC	SDP-4	E14	23SDME04R	ANALYSIS OF ENERGY SYSTEMS(Ansys Fluent)	AES	R	0	0	2	4	2	6	TD
13	SDC	SDP-4	E15	23SDME05A	3D MODELLING AND DIGITAL PROTOTYPING(Solidworks)	3DMDP	A	0	0	6	4	4	10	EM
14	SDC	SDP-4	E15	23SDME05E	3D MODELLING AND DIGITAL PROTOTYPING(Solidworks)	3DMDP	E	0	0	6	4	4	10	EM
15	SDC	SDP-4	E15	23SDME05R	3D MODELLING AND DIGITAL PROTOTYPING(Solidworks)	3DMDP	R	0	0	2	4	2	6	EM
16	SDC	SDP-4	E25	23SDME06A	GEOMETRIC DIMENSIONING AND TOLERANCING(AutoCAD & Fusison 360)	GDAT	A	0	0	6	4	4	10	MSM
17	SDC	SDP-4	E25	23SDME06E	GEOMETRIC DIMENSIONING AND TOLERANCING(AutoCAD & Fusison 360)	GDAT	E	0	0	6	4	4	10	MSM
18	SDC	SDP-4	E25	23SDME06R	GEOMETRIC DIMENSIONING AND TOLERANCING(AutoCAD & Fusison 360)	GDAT	R	0	0	2	4	2	6	MSM

LIST OF FLEXI CORE COURSES OFFERED TO Y24 ADMITTED BATCH STUDENTS

S.NO	Category	FC#	COHORT	Course Code	Course Name	Short Name	Mode	L	T	P	S	CR	CH	Pre-Requisite
1	FCC	FC-1	E25	23ME2221F	SUPPLY CHAIN & QUALITY MANAGEMENT	SCQM	F	3	0	0	0	3	3	NIL
2	FCC	FC-1	E14	23ME2223F	ELECTRIC VEHICLE TECHNOLOGY	EVT	F	2	0	2	0	3	3	NIL
3	FCC	FC-1	E12	23ME2222F	INDUSTRIAL INTERNET OF THINGS	IIOT	F	2	0	2	0	3	4	NIL
4	FCC	FC-1	E15	23ME1001F	ENGINEERING MECHANICS	EM	F	2	1	0	0	3	3	NIL
5	FCC	FC-1	E14	23ME2107F	THERMODYNAMICS	TD	F	2	1	0	0	3	3	NIL
6	FCC	FC-1	E25	23ME2225F	MATERIAL SCIENCE	MS	F	2	0	2	0	3	4	NIL

LIST OF VALUE ADDED COURSES OFFERED TO Y24 ADMITTED BATCH STUDENTS

S.NO	Category	VAC#	COHORT	Course Code	Course Name	Short Name	Mode	L	T	P	S	CR	CH	Pre-Requisite
1	VAC	VAC-CERT	E06	23CC3071	PROGRAMMING USING PYTHON	PUP	R	0	0	0	8	0	8	NIL


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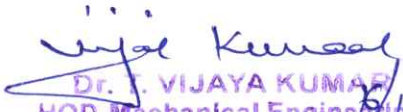
2	VAC	VAC-CERT	E15	23CC3001	3D MODELLING USING CATIA	3DMUC	R	0	0	0	8	0	8	NIL
3	VAC	VAC-CERT	E15	23CC3008	AUTOCAD	ACAD	R	0	0	0	8	0	8	NIL
4	VAC	VAC-CERT	E15	23CC3009	AUTODESK FUSION 360	ADF	R	0	0	0	8	0	8	NIL
5	VAC	VAC-CERT	E15	23CC3084	STATIC ANALYSIS USING ANSYS	SAUA	R	0	0	0	8	0	8	NIL
6	VAC	VAC-CERT	E15	23CC3085	STATIC AND DYNAMIC ANALYSIS USING ALTAIR HYPERWORKS	SDAUHW	R	0	0	0	8	0	8	NIL

LIST OF FOREIGN LANGUAGE COURSES OFFERED TO Y24 ADMITTED BATCH STUDENTS

S.NO	Category	FL	COHORT	Course Code	Course Name	Short Name	Mode	L	T	P	S	CR	CH	Pre-Requisite
1	HAS	HAS-FLE	M51	23FL3054	FRENCH LANGUAGE	FLG	R	3	0	0	0	3	0	NIL
2	HAS	HAS-FLE	M51	23FL3055	GERMAN LANGUAGE	GLG	R	3	0	0	0	3	0	NIL
3	HAS	HAS-FLE	M51	23FL3058	JAPANESE LANGUAGE	JLG	R	3	0	0	0	3	0	NIL

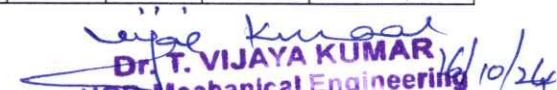
LIST OF OPEN ELECTIVE COURSES OFFERED TO Y24 ADMITTED BATCH STUDENTS

S.NO	Category	OE#	COHORT	Course Code	Course Name	Short Name	Mode	L	T	P	S	CR	CH	Pre-Requisite
1	OE	OE-1	E22	23OEME01	ROBOTICS	RBT	R	4	0	0	0	4	4	NIL
2	OE	OE-2	E22	23OEME02	MECHATRONIC	MCT	R	4	0	0	0	4	4	NIL
3	OE	OE-3	E25	23OEME03	OPERATIONS RESEARCH	ORS	R	4	0	0	0	4	4	NIL


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DEPARTMENT OF MECHANICAL ENGINEERING														
LIST OF PROFESSIONAL ELECTIVES OFFERED TO Y24 ADMITTED BATCH STUDENTS														
S.NO	Category	PE#	COHORT	Course Code	Course Name	Short Name	Mode	L	T	P	S	CR	CH	Pre-Requisite
1	PEC	PE-1	E14	23ECF3101A	AUTOMOBILE ENGINEERING	AE	A	4	0	4	4	7	12	TD
2	PEC	PE-1	E14	23ECF3101E	AUTOMOBILE ENGINEERING	AE	E	4	0	4	4	7	12	TD
3	PEC	PE-1	E14	23ECF3101R	AUTOMOBILE ENGINEERING	AE	R	3	0	2	4	5	9	TD
4	PEC	PE-1	E15	23EGD3101A	MODELING ANALYSIS & DESIGN OF ROBOTIC SYSTEMS	MADRS	A	4	0	4	4	7	12	EM
5	PEC	PE-1	E15	23EGD3101E	MODELING ANALYSIS & DESIGN OF ROBOTIC SYSTEMS	MADRS	E	4	0	4	4	7	12	EM
6	PEC	PE-1	E15	23EGD3101R	MODELING ANALYSIS & DESIGN OF ROBOTIC SYSTEMS	MADRS	R	3	0	2	4	5	9	EM
7	PEC	PE-1	E25	23SMF3101A	REVERSE ENGINEERING & RAPID PROTOTYPING	MMC	A	4	0	4	4	7	12	MSM
8	PEC	PE-1	E25	23SMF3101E	REVERSE ENGINEERING & RAPID PROTOTYPING	MMC	E	4	0	4	4	7	12	MSM
9	PEC	PE-1	E25	23SMF3101R	REVERSE ENGINEERING & RAPID PROTOTYPING	MMC	R	3	0	2	4	5	9	MSM
10	PEC	PE-2	E14	23ECF3202A	AUTOTRONICS & SAFETY	ATS	A	5	0	0	0	5	5	TD
11	PEC	PE-2	E14	23ECF3202E	AUTOTRONICS & SAFETY	ATS	E	5	0	0	0	5	5	TD
12	PEC	PE-2	E14	23ECF3202R	AUTOTRONICS & SAFETY	ATS	R	3	0	0	0	3	3	TD
13	PEC	PE-2	E14	23ECF3203A	AUTONOMOUS VEHICLES	AV	A	5	0	0	0	5	5	TD
14	PEC	PE-2	E14	23ECF3203E	AUTONOMOUS VEHICLES	AV	E	5	0	0	0	5	5	TD
15	PEC	PE-2	E14	23ECF3203R	AUTONOMOUS VEHICLES	AV	R	3	0	0	0	3	3	TD
16	PEC	PE-2	E15	23EGD3202A	CREEP, FATIGUE AND FRACTURE MECHANICS	CFFM	A	5	0	0	0	5	5	EM
17	PEC	PE-2	E15	23EGD3202E	CREEP, FATIGUE AND FRACTURE MECHANICS	CFFM	E	5	0	0	0	5	5	EM
18	PEC	PE-2	E15	23EGD3202R	CREEP, FATIGUE AND FRACTURE MECHANICS	CFFM	R	3	0	0	0	3	3	EM
19	PEC	PE-2	E15	23EGD3203A	THEORY OF ELASTICITY AND PLASTICITY	TEP	A	5	0	0	0	5	5	EM
20	PEC	PE-2	E15	23EGD3203E	THEORY OF ELASTICITY AND PLASTICITY	TEP	E	5	0	0	0	5	5	EM
21	PEC	PE-2	E15	23EGD3203R	THEORY OF ELASTICITY AND PLASTICITY	TEP	R	3	0	0	0	3	3	EM
22	PEC	PE-2	E25	23SMF3202A	ADVANCED MATERIALS MANUFACTURING & TESTING	AMMT	A	5	0	0	0	5	5	MSM
23	PEC	PE-2	E25	23SMF3202E	ADVANCED MATERIALS MANUFACTURING & TESTING	AMMT	E	5	0	0	0	5	5	MSM

24	PEC	PE-2	E25	23SMF3202R	ADVANCED MATERIALS MANUFACTURING & TESTING	AMMT	R	3	0	0	0	3	3	MSM
25	PEC	PE-2	E25	23SMF3203A	MODERN MANUFACTURING PROCESSES	MMP	A	5	0	0	0	5	5	MSM
26	PEC	PE-2	E25	23SMF3203E	MODERN MANUFACTURING PROCESSES	MMP	E	5	0	0	0	5	5	MSM
27	PEC	PE-2	E25	23SMF3203R	MODERN MANUFACTURING PROCESSES	MMP	R	3	0	0	0	3	3	MSM
28	PEC	PE-3	E14	23ECF3304A	HYBRID AND ELECTRIC VEHICLE DESIGN	HEVD	A	4	0	4	4	7	12	NIL
29	PEC	PE-3	E14	23ECF3304E	HYBRID AND ELECTRIC VEHICLE DESIGN	HEVD	E	4	0	4	4	7	12	NIL
30	PEC	PE-3	E14	23ECF3304R	HYBRID AND ELECTRIC VEHICLE DESIGN	HEVD	R	3	0	2	4	5	9	NIL
31	PEC	PE-3	E15	23EGD3304A	SUSTAINABLE DESIGN & SOCIAL INNOVATION IN ENGINEERING DESIGN	SDSIED	A	4	0	4	4	7	12	EM
32	PEC	PE-3	E15	23EGD3304E	SUSTAINABLE DESIGN & SOCIAL INNOVATION IN ENGINEERING DESIGN	SDSIED	E	4	0	4	4	7	12	EM
33	PEC	PE-3	E15	23EGD3304R	SUSTAINABLE DESIGN & SOCIAL INNOVATION IN ENGINEERING DESIGN	SDSIED	R	3	0	2	4	5	9	EM
34	PEC	PE-3	E25	23SMF3304A	SUSTAINABLE DESIGN & SOCIAL INNOVATION IN SMART MANUFACTURING	SDSISM	A	4	0	4	4	7	12	MSM
35	PEC	PE-3	E25	23SMF3304E	SUSTAINABLE DESIGN & SOCIAL INNOVATION IN SMART MANUFACTURING	SDSISM	E	4	0	4	4	7	12	MSM
36	PEC	PE-3	E25	23SMF3304R	SUSTAINABLE DESIGN & SOCIAL INNOVATION IN SMART MANUFACTURING	SDSISM	R	3	0	2	4	5	9	MSM
37	PEC	PE-4	E14	23ECF3405M	SPECIAL PURPOSE VEHICLES	SPV	M	4	0	0	0	4	4	NIL
38	PEC	PE-4	E14	23ECF3406M	VEHICLE DYNAMICS	VD	M	4	0	0	0	4	4	NIL
39	PEC	PE-4	E15	23EGD3405M	ADVANCED VIBRATIONS	AV	M	4	0	0	0	4	4	EM
40	PEC	PE-4	E15	23EGD3406M	MECHANICS OF COMPOSITE MATERIALS	MOCM	M	4	0	0	0	4	4	EM
41	PEC	PE-4	E25	23SMF3405M	ROBOTICS & INDUSTRIAL AUTOMATION	RIA	M	4	0	0	0	4	4	MSM
42	PEC	PE-4	E25	23SMF3406M	MECHANICAL MEASUREMENTS AND METROLOGY	MMM	M	4	0	0	0	4	4	MSM



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43	PEC	PE-5	E14	23ECF3507	THERMAL MANAGEMENT OF ELECTRIC AND ELECTRONIC SYSTEMS	TMEES	R	3	0	0	0	3	3	NIL
44	PEC	PE-5	E14	23ECF3508	ALTERNATE ENERGY SOURCES FOR AUTOMOBILES	AESFA	R	3	0	0	0	3	3	NIL
45	PEC	PE-5	E15	23EGD3507	ADVANCED STRENGTH OF MATERIALS	ASM	R	3	0	0	0	3	3	EM
46	PEC	PE-5	E15	23EGD3508	HYBRID AND ELECTRIC VEHICLE DESIGN	HEVD	R	3	0	0	0	3	3	EM
47	PEC	PE-5	E25	23SMF3507	MACHINE TO MACHINE COMMUNICATION	RERP	R	3	0	0	0	3	3	MSM
48	PEC	PE-5	E25	23SMF3508	FLEXIBLE MANUFACTURING SYSTEMS	FMS	R	3	0	0	0	3	3	MSM


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KLEF											
DEPARTMENT OF MECHNAICAL ENGINEERING											
2024-25 M.Tech-Machine Design Course Structure											
SEM	SI No	Course	COURSE CODE	COURSE NAME	Mode	L	T	P	S	Cr	CH
1	1	AUC	23UC5201	PROFESSIONAL COMMUNICATION SKILLS	R/M	0	0	4	0	0	4
2	2	AUC	23MD5101	DESIGN OF EXPERIMENTS	R/M	0	0	4	0	0	4
Total						0	0	8	0	0	8
1	3	ESC	23MT5102	COMPUTATIONAL TECHNIQUES IN ENGINEERING OPTIMIZATION	R	2	2	0	0	4	4
Total						2	2	0	0	4	4
1	4	PCC	23ME5102	MODELLING AND ANALYSIS OF MECHANICAL	R	2	0	2	4	4	8
1	5	PCC	23MD5102	ROBOTICS MANIPULATOR DESIGN AND ANALYSIS	R	3	0	2	0	4	5
1	6	PCC	23MD5103	MECHANICAL BEHAVIOUR OF MATERIALS	R	3	1	0	0	4	5
2	7	PCC	23MD5204	ADVANCED STRENGTH OF MATERIALS	R	3	0	2	0	4	5
2	8	PCC	23MD5205	MECHANICAL VIBRATIONS	R	2	0	2	0	3	4
Total						13	1	8	4	19	27
1	9	PE-1		PROFESSIONAL ELECTIVE-1	R	2	0	2	0	3	4
2	10	PE2		PROFESSIONAL ELECTIVE-2	R	2	0	2	0	3	4
2	11	PE3		PROFESSIONAL ELECTIVE-3	R	3	0	2	0	4	5
2	12	PE4		PROFESSIONAL ELECTIVE-4	R/M	3	0	0	0	3	3
3	13	PE5		PROFESSIONAL ELECTIVE-5	M	3	0	0	0	3	0
Total						13	0	6	0	16	16
1	14	PRI	23IE5201	ESSENTIALS OF RESEARCH DESIGN	R	1	1	0	0	2	2
2	15	PRI	23IE5149	TERM PAPER	R	0	0	8	0	4	8
3	16	PRI		DISSERTATION	R	0	0	32	0	16	24
4	17	PRI		DISSERTATION	R	0	0	32	0	16	24
Total						1	1	72	0	38	58
3	18	VAC		MACHINE LEARNING WITH PYTHON	R/M	2	0	0	0	0	2
4	19	VAC		STATIC AND DYNAMIC ANALYSIS USING HYPERWORKS	R/M	2	0	0	0	0	2
Total						4	0	0	0	0	4
4	20	OE		OPEN ELECTIVE	M	3	0	0	0	3	0
Total						3	0	0	0	3	0
GRAND TOTAL						36	4	94	4	80	117

		LIST OF PROFESSIONAL ELECTIVES	L	T	P	S
PE-1	23MD51A1	LEAN MANUFACTURING	2	0	2	0
	23MD51A2	PRECISION AND QUALITY ENGINEERING	2	0	2	0
	23MD51A3	MECHANICS OF COMPOSITE MATERIALS	2	0	2	0
PE-2	23MD52C1	DESIGN FOR MANUFACTURING	2	0	2	0
	23MD52B2	DESIGN FOR SUSTAINABILITY	2	0	2	0
	23MD52B3	CONCURRENT MANUFACTURING	2	0	2	0
PE-3	23MD52C1	FINITE ELEMENT ANALYSIS	3	0	2	0
	23MD52C2	FRACTURE MECHANICS	3	0	2	0
	23MD52C3	TRIBOLOGICAL SYSTEM DESIGN	3	0	2	0
PE-4	23MD52D1	DESIGN OF PRESSURE VESSELS AND PLATES	3	0	0	0
	23MD52D2	ENGINEERING FAILURE ANALYSIS AND PREVENTION	3	0	0	0
	23MD52D3	MODELING AND SIMULATION OF MECHATRONICS	3	0	0	0
PE-5	23MD53E1	DESIGN OF HYBRID VEHICLES	3	0	0	0
	23MD5205	ENTERPRISE RESOURCES PLANNING	3	0	0	0
	23MD52E2	INDUSTRIAL INTERNET OF THINGS	3	0	0	0


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KLEF
DEPARTMENT OF MECHNAICAL ENGINEERING
2024-25 M.Tech-Thermal Engineering Course Structure

SEM	Sl No	Course	COURSE CODE	COURSE NAME	Mode	L	T	P	S	Cr	CH
1	1	AUC	23UC5201	PROFESSIONAL COMMUNICATION SKILLS	R/M	0	0	4	0	0	4
2	2	AUC	23TE5101	SIMULATION OF ENERGY MANAGEMENT SYSTEMS	R/M	0	0	4	0	0	4
Total						0	0	8	0	0	8
1	3	ESC	23MT5102	COMPUTATIONAL TECHNIQUES IN ENGINEERING OPTIMIZATION	R	2	2	0	0	4	4
Total						2	2	0	0	4	4
1	4	PCC	23TE5102	DESIGN OF THERMAL SYSTEMS	R	2	0	2	4	4	8
1	5	PCC	23TE5103	ADVANCED THERMODYNAMICS	R	3	0	2	0	4	5
1	6	PCC	23TE5104	COMPUTATIONAL FLUID DYNAMICS	R	3	0	2	0	4	5
1	7	PCC	23TE5205	ADVANCED HEAT AND MASS TRANSFER	R	3	0	2	0	4	5
2	8	PCC	23TE5206	MEASUREMENTS IN THERMAL ENGINEERING	R	2	0	2	0	3	4
Total						13	0	10	4	19	27
1	9	PE-1	23TE51A2	ELECTRIC VEHICLE ENGINEERING	R	2	0	2	0	3	4
2	10	PE2	23TE52B3	CONVECTION AND TWO-PHASE FLOW	R	2	0	2	0	3	4
2	11	PE3	23TE52C1	RENEWABLE ENERGY SOURCES AND TECHNOLOGY	R	3	0	2	0	4	5
2	12	PE4	23TE52D1	REFRIGERATION AND CRYOGENICS	R/M	3	0	0	0	3	3
3	13	PE5		BATTERY AND THERMAL MANAGEMENT SYSTEMS	M	3	0	0	0	3	0
Total						13	0	6	0	16	16
1	14	PRI	23IE5201	ESSENTIALS OF RESEARCH DESIGN	R	2	0	0	0	2	2
2	15	PRI	23IE5149	TERM PAPER	R	0	0	8	0	4	8
3	16	PRI		DISSERTATION	R	0	0	32	0	16	24
4	17	PRI		DISSERTATION	R	0	0	32	0	16	24
Total						2	0	72	0	38	58
3	18	VAC		MACHINE LEARNING WITH PYTHON	R/M	2	0	0	0	0	2
4	19	VAC		FLOW ANALYSIS USING ANSYS CFD	R/M	2	0	0	0	0	2
Total						4	0	0	0	0	4
4	20	OE		OPEN ELECTIVE		3	0	0	0	3	3
Total						3	0	0	0	3	3
Grand Total						37	2	96	4	80	120

	Course Code	LIST OF PROFESSIONAL ELECTIVES	L	T	P	S
PE-1	23TE51A1	GAS TURBINE ENGINEERING	2	0	2	0
	23TE51A2	ELECTRIC VEHICLE ENGINEERING	2	0	2	0
	23TE51A3	ENERGY CONSERVATION & AUDIT	2	0	2	0
PE-2	23TE52B1	ADVANCED ENERGY STORAGE TECHNOLOGIES	2	0	2	0
	23TE52B2	FOOD PROCESSING, PRESERVATION AND TRANSPORT	2	0	2	0
	23TE52B3	CONVECTION AND TWO-PHASE FLOW	2	0	2	0
PE-3	23TE52C1	RENEWABLE ENERGY SOURCES & TECHNOLOGY	3	0	2	0
	23TE52C2	PRINCIPLES OF TURBO MACHINERY	3	0	2	0
	23TE52C3	HEAT EXCHANGER DESIGN	3	0	2	0
PE-4	23TE52D1	REFRIGERATION AND CRYOGENICS	3	0	0	0
	23TE52D2	AIR CONDITIONING SYSTEMS	3	0	0	0
	23TE52D3	SOLAR ENERGY & SYSTEMS	3	0	0	0
PE-5	23TE53E1	HYDROGEN AND FUEL CELLS	3	0	0	0
	23TE53E2	AIRCRAFT & JET PROPULSION SYSTEMS	3	0	0	0
	23TE53E3	BATTERY AND THERMAL MANAGEMENT SYSTEMS	3	0	0	0

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