

**TKM COLLEGE  
OF ENGINEERING**  
(GOVERNMENT AIDED AND AUTONOMOUS)



celebrating 60 years of excellence

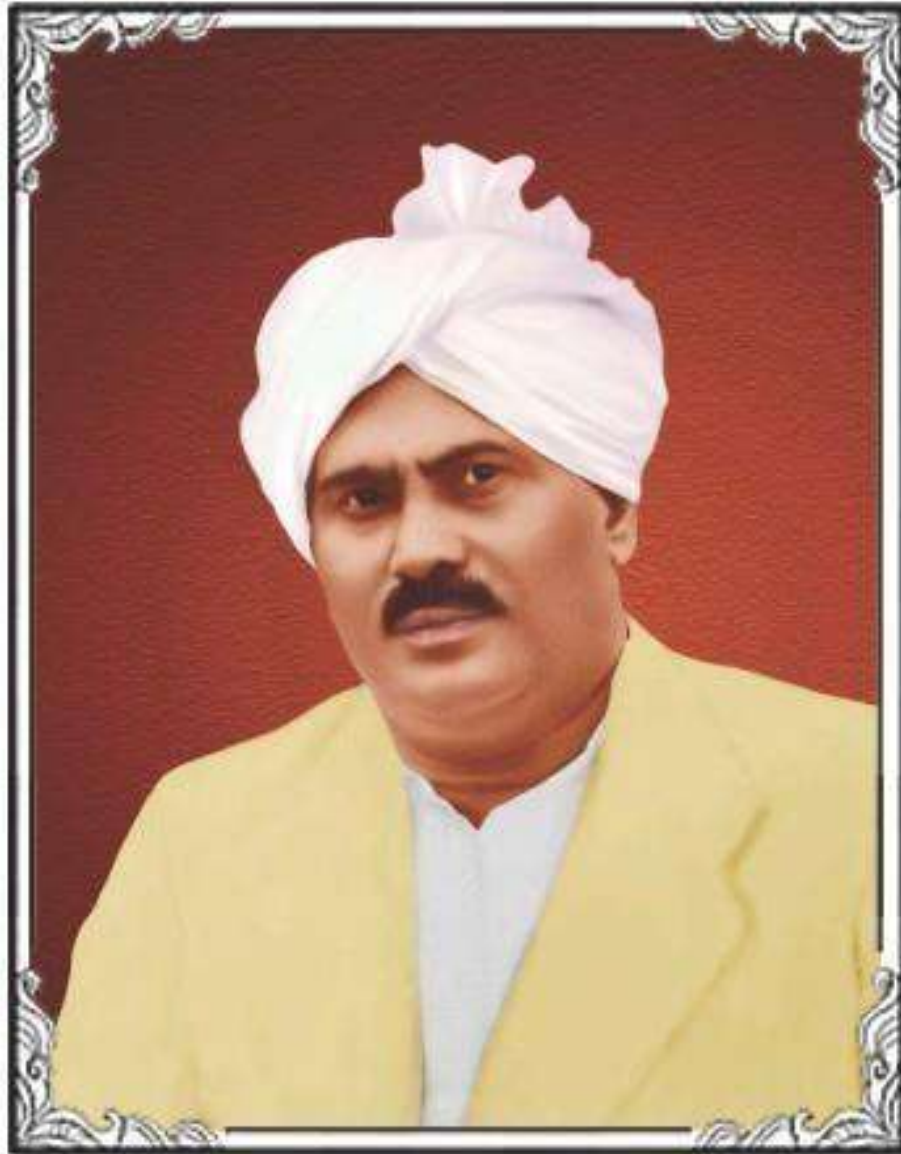
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**MINUTES OF MEETING**

4<sup>th</sup> ACADEMIC COUNCIL MEETING

25<sup>TH</sup> JANUARY 2024

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*‘When the mind begins to experience the sensation of physical comfort, joy or satisfied desires; the intelligence has to act as a judge with consciousness as the mediator’*

**4<sup>th</sup> ACADEMIC COUNCIL MEETING**  
**of**  
**TKM College of Engineering**

The Fourth Academic Council Meeting was held on January 25, 2024 at 11 a.m. in the Council Hall. Among the 37 members, two were absent and nine members attended the meeting online.

**Agenda of Meeting**

1. Welcome and Introductory Remarks by the Chairman
2. Previous minutes and action taken report
3. Approval of Syllabus recommended by BoS
  - 3.1 Third to Eighth Semester 2023 Scheme B.Tech Syllabus
  - 3.2 Third to Tenth Semester 2023 Scheme B.Arch Syllabus
  - 3.3 Third to Fourth Semester 2023 Scheme MCA Syllabus
  - 3.4 Third to Fourth Semester 2022 Scheme M.Tech Industrial Safety and Engineering Syllabus
4. Proposal to approve the amendments recommended by BoS in the UG curriculum and first & second semester syllabus
5. Proposal to approve the amendments in UG and PG regulations of 2023 Scheme
6. Proposal to approve the modifications in the Examination Manual 2022
7. Proposal to effect the modifications made by KTU in 2022 Scheme
8. Academic Calendar: 2023 – 24 Even Semester
9. Proposal of special chance for students involved in sports activities to re-appear for End Semester Examinations
10. Any Other item

**Members Present**

1. Dr. T. A. Shahul Hameed, Chairman
2. Sri S. Kasthuriangan, Professor (Retired), IISC, Bangalore
3. Dr. Sameer S. M., Dean (Academics), NIT Calicut
4. Sri. P H Kurian., IAS (Rtd)
5. Sri. Chandra Koduru., Vice President & Head, India Operations at eClinical Solutions
6. Sri. Afsal Musaliar., Managing Director, Supreme Group of Companies, Kollam
7. Sri. Anwar Musaliar., Program Manager, Ernst and Young
8. Dr. K M Suceendran, Global Head, TCS Academic Interface Programme

9. Dr. Ajayan K. R., Professor & Head , Department of Electronics & Communication, College of Engineering, Thiruvananthapuram
10. Dr. Salim A., Professor, Department of Computer Science and Engineering, Government Engineering College, Thrissur
11. Dr. Hari V. S., Professor, Department of Electronics & Communication, College of Engineering, Chengannur
12. Dr. Sajeeb R., HoD, Civil Engg. Dept.
13. Dr. Dileep P. N., HoD, Mechanical Engg. Dept.
14. Dr. Sabeena Beevi K., HoD, Electrical and Electronics Engg. Dept
15. Prof. Shabeer S., HoD, Electronics and Communication Engg. Dept.
16. Dr. Saibi R., HoD, Chemical Engineering Dept.
17. Dr. Dimple A. Shajahan., HoD, Computer Science and Engineering Dept.
18. Dr. Annie John., HoD, Architecture Dept.
19. Dr. Fousia M. Shamsudeen., HoD, MCA Dept.
20. Dr. Habeeb Muhammed M. A., HoD, Chemistry Dept.
21. Dr. Manesh Rasheed., HoD, Physical Education Dept.
22. Dr. Imthias Ahammed., HoD, Self-Financing PG Programs
23. Dr. Ansamma John., Dean, Research
24. Dr. Adarsh S., Dean, Academics
25. Dr. Shafi K A., Dean, Strategic Planning
26. Dr. Nishanth N, Dean, Student Affairs
27. Dr. Sadiq A., Dean, Industry connect, Entrepreneurship & Business Development
28. Dr. Reby Roy K E., Dean, Placement & Training and International Collaborations
29. Dr. Sudheer A., Dean, Alumni Affairs
30. Dr. Anu V. Thomas., Controller of Examinations
31. Dr. Bijuna Kunju K., Professor, Electrical and Electronics Engg. Dept
32. Dr. Ashfak A., Professor, Mechanical Engineering Department
33. Dr. Santhosh Kumar K G., Associate Professor, Department of Architecture
34. Dr. Anzar S M., Assistant Professor, Electronics and Communication Engg. Dept.
35. Dr. Fazil A., Member Secretary, IQAC Coordinator

## Minutes of the Meeting

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### **Agenda item: 1**

#### **Welcome and Introductory remarks by the Chairman**

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The meeting started with a silent prayer. A moment of silence was observed in memory of Janab Thangal Kunju Musaliar, the founder. The Chairman welcomed all members of the Academic Council and briefed the meeting about the important happenings of the Institution, including the felicitation of 139 Alumni members at ISRO who were instrumental in the success of Chandrayaan-3 mission.

#### **Resolution of Agenda item No. 1**

**Noted**

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### **Agenda Item: 2**

#### **Previous minutes and Action taken report**

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Previous minutes and the action taken report were presented before the Academic Council.

#### **Resolution of Agenda item No. 2**

**The Academic Council approved the previous minutes and the action taken report of the Third Academic Council Meeting.**

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### **Agenda Item: 3**

#### **Approval of Syllabus Recommended by BoS**

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##### **3.1 Third to Eighth Semester 2023 Scheme B.Tech Syllabus**

The third Academic Council advised all BoS to prepare the detailed syllabus of higher semesters and to get recommendations from the respective BoS. Accordingly, all the BoS meetings were

held as listed:

- a) BoS Civil Engineering meeting held on 21/12/2023*
- b) BoS Mechanical Engineering meeting held on 04/12/2023*
- c) BoS Electrical and Electronics Engineering meeting held on 15/12/2023*
- d) BoS Electronics and Communication Engineering meeting held on 08/12/2023*
- e) BoS Computer Science and Engineering meeting held on 03/01/2024*
- f) BoS Chemical Engineering meeting held on 05/01/2024*

All BoS discussed the matter and recommended their syllabus. The detailed syllabus from third to eighth semester of the following B.Tech programs were considered by the Academic council:

***3.1.1 Civil Engineering***

***3.1.2 Mechanical Engineering***

***3.1.3 Electrical and Electronics Engineering***

***3.1.4 Electrical and Computer Engineering***

***3.1.5 Electronics and Communication Engineering***

***3.1.6 Computer Science and Engineering***

***3.1.7 Chemical Engineering***

The members of the Academic Council commented that the prepared syllabus is finely crafted and well documented. Further, the members of the Council appreciated the good amount of work done by BoS. The third to eighth semester syllabus of 2023 Scheme of all the above listed B.Tech programs were approved by the Academic Council.

**Resolution of Agenda item 3.1:**

**The Academic Council resolved to approve the third to eighth semester syllabus of 2023 Scheme of the below mentioned B.Tech programs:**

*1 Civil Engineering*

*2 Mechanical Engineering*

*3 Electrical and Electronics Engineering*

*4 Electrical and Computer Engineering*

*5 Electronics and Communication Engineering*

*6 Computer Science and Engineering*

*7 Chemical Engineering*

**The Academic Council resolved to authorize the Chairman to make minor corrections including the typographical and syntax corrections in the approved syllabus, if any, before notifying the approved syllabus.**

**3.2 Third to Tenth Semester 2023 Scheme B.Arch Syllabus**

The third Academic Council advised BoS Architecture to prepare the detailed syllabus of higher semesters and to get recommendations from the BoS Architecture. Accordingly BoS Architecture meeting was held on 15<sup>th</sup> November 2023 and discussed the matter and recommended the syllabus for B.Arch program. The members of the Academic Council commented that the prepared syllabus is finely crafted and well documented. Further, the members of the Council appreciated the good amount of work done by BoS. The third to tenth semester syllabus of 2023 Scheme B.Arch program was approved by the Academic Council.

**Resolution of Agenda item 3.2:**

**The Academic Council resolved to approve the third to tenth semester syllabus of 2023 Scheme B.Arch program. Further, the Academic Council resolved to authorize the Chairman to make minor corrections including the typographical and syntax corrections in the approved syllabus, if any, before notifying the approved syllabus.**

### **3.3 Third to Fourth Semester 2023 Scheme MCA Syllabus**

The third Academic Council advised BoS MCA to prepare the detailed syllabus of higher semesters and to get recommendations from the BoS MCA. Accordingly, BoS MCA meeting was held on 11<sup>th</sup> December 2023 and discussed the matter and recommended the syllabus for MCA program. The detailed syllabus from third to fourth semester of the MCA program was considered by the Academic Council. The members of the Academic Council commented that the prepared syllabus is finely crafted and well documented. Further, the members of the Council appreciated the good amount of work done by BoS. The third to fourth semester syllabus of 2023 Scheme MCA program was approved by the Academic Council.

#### **Resolution of Agenda item 3.3:**

**The Academic Council resolved to approve the third to fourth semester syllabus of 2023 Scheme MCA program. Further the Academic Council resolved to authorize the Chairman to make minor corrections including the typographical and syntax corrections in the approved syllabus, if any, before notifying the approved syllabus.**

### **3.4 Third to Fourth Semester 2022 Scheme M.Tech Industrial Safety and Engineering Syllabus**

The third Academic Council advised BoS Chemical Engineering to prepare the detailed syllabus of higher semesters and to get recommendations from BoS Chemical Engineering. Accordingly, BoS Chemical Engineering meeting was held on 5<sup>th</sup> January 2024 and discussed the matter and recommended the syllabus for M.Tech Industrial Safety and Engineering program. The detailed syllabus from third to fourth semester of the 2022 Scheme M.Tech Industrial Safety and Engineering program was considered and approved by the Academic Council.



**Resolution of Agenda item 3.4:**

**The Academic Council resolved to approve the third to fourth semester syllabus of 2022 Scheme M.Tech Industrial Safety and Engineering program. Further the Academic Council resolved to authorize the Chairman to make minor corrections including the typographical and syntax corrections in the approved syllabus, if any, before notifying the approved syllabus.**

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**Agenda Item: 4****Proposal to approve the amendments recommended by BoS in the UG Curriculum and first and second semester syllabus**

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**4.1 Proposal from the Department of Civil Engineering**

The BoS Civil Engineering has recommended the following changes in the 2023 Scheme B.Tech Civil Engineering curriculum:

**4.1.1 Change in Course Name**

<b>Semester</b>	<b>Course Code</b>	<b>Existing Course Name</b>	<b>Revised Course Name recommended by BoS</b>
3	23MAT301	Mathematics III	Probability Distributions and Complex Analysis

**4.1.2 Change in Course Code**

<b>Semester</b>	<b>Course Name</b>	<b>Existing code</b>	<b>Revised Course code recommended by BoS</b>
3	Life Skills and Professional Ethics	23HUT306	23HUT310
4	Disaster Management and Resilient Infrastructure	23HUT405	23HUT410

5	Management for Engineers	23HUT505	23HUT510
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**Resolution of Agenda item No. 4.1:**

**The Academic council approved all the corrections noted in the Agenda item No. 4.1**

**4.2 Proposal from the Department of Mechanical Engineering**

**4.2.1** The BoS Mechanical Engineering has recommended the following changes in the 2023 Scheme B.Tech Mechanical Engineering curriculum:

No	The clause in the Approved curriculum	Proposed amendments recommended by BoS
1	Page No.17, Section “Third Semester” Title “Mathematics III”	The title “Mathematics III” shall be changed to “Probability, Distributions and Complex Analysis”
2	Page No.17, Section “Fourth Semester” SI No.8, Code: 23MEM309 / 23MEH309	SI No.8, Code: 23MEM309 / 23MEH309 shall be changed to SI No.8, Code : 23MEM409 / 23MEH409
3	Page No.20, Section 1. Professional Electives  List of Professional electives	The list of Professional electives shall be replaced with the list provided in Table 1.
4	Page No.22, Section Micro Specialization Domain & Electives  List of micro specialization	The list of Micro Specialization Domain & Elective shall be replaced with the list provided in Table 2.
5	Page No. 22, Section Industrial Electives  List of Industrial Electives	The list of Industrial Electives shall be replaced with the list provided in Table 3.

6	Page No. 23, Section Minor , Table column headings BASKET-1, BASKET-2, BASKET-3	Table column headings BASKET-1, BASKET-2, BASKET-3 shall be replaced with BASKET-1 (Specialization: Machine Design), BASKET-2 (Specialization: Thermal Engineering), BASKET-3 (Specialization: Manufacturing Engineering) BASKET -4 (Specialization: Management)
7	Page No. 23, Section Minor, Add a New BASKET - 4 (Specialization: Management)	A new BASKET - 4 (Specialization: Management) shall be added with the following courses for Semesters S3 to S7 S3 - 23MEM312 Industrial Engineering and Management S4 - 23MEM412 Human Resource Management S5 - 23MEM512 Quality Management S6-23MEM612 Marketing Management S7 - 23MEH807 Project in Minor
8	Page No. 23, Section Minor In Semester 5, Code - 23MEM509, Course Title: Dynamics of Machines	The Course Title Dynamics of Machines shall be changed to Material Testing and Characterization
9	Page No. 23, Section Minor in Semester 6, Code - 23MEM611, Course Title: Industrial Engineering	The Course Title Industrial Engineering shall be changed to Automated Manufacturing Systems
10	Page No. 24, Section Honors Semester 6, BASKET - 2, Course Title: Compressible Fluid Flow	The Course Title Compressible Fluid Flow shall be changed to Advanced Heat and Mass Transfer

Table 1

<b>PROFESSIONAL ELECTIVES</b>		
<b>STREAM</b>	<b>PROFESSIONAL ELECTIVE I (S6)</b>	<b>PROFESSIONAL ELECTIVE II (S6)</b>
<b>Thermal</b>	23MEE614 Computational Fluid Dynamics 23MEE624 Hybrid and Electric Vehicle Technology 23MEE634 Heat Transfer Equipment Design	23MEE615 Compressible Fluid Flow 23MEE625 Renewable Engineering and its Utilisation <b>23MEI635 HVAC Systems &amp; Applications (IE)</b>
<b>Design</b>	23MEE644 Mechanical Behaviour of Materials 23MEE654 Engineering Failure Analysis 23MEE664 Control Systems Engineering	<b>23MEI645 Finite Element Analysis.(IE)</b> 23MEE655 Biomaterials and Engineering 23MEE665 Tribology.
<b>Manufacturing</b>	23MEE674 Advanced Metal Joining 23MEE684 Micro and nano manufacturing 23MEE694 NDT of Materials	23MEE675 Advanced Metal Forming <b>23MEI685 Additive manufacturing (IE)</b> 23MEE695 Composite materials & Advanced Materials
<b>Management</b>	23MEE6104 Project Planning & Management 23MEE6114 Marketing Management 23MEE6124 Human Resource Management	<b>23MEI6105 Industrial Quality Control (IE)</b> 23MEE6115 Product and Brand Management 23MEE6125 Financial Institutions and Markets
	<b>PROFESSIONAL ELECTIVE III (S7)</b>	<b>PROFESSIONAL ELECTIVE IV (S8)</b>
<b>Thermal</b>	23MEE713 Gas Turbines and Jet Propulsion 23MEE723 Power Plant Engineering 23MEE733 Industrial Refrigeration	23MEE811 Aerospace Engineering 23MEE821 Energy Engineering and Management 23MEE831 Cryogenic Engineering
<b>Design</b>	23MEE743 Advanced Mechanics of Solids. 23MEE753 Fundamentals of Biomechanics 23MEE763 Robotics.	23MEE841 Mechanics of Composite Materials 23MEE851 Automotive Systems 23MEE861 Engineering Fracture Mechanics
<b>Manufacturing</b>	23MEE773 Advanced Metal Casting 23MEE783 Data Analytics for Manufacturing 23MEE793 Fracture and Failure analysis of Materials	23MEE871 Advanced Machining 23MEE881 Design for Manufacturing 23MEE891 Biomaterials and Nanomaterials
<b>Management</b>	23MEE7103 Facilities Planning 23MEE7113 Consumer Behavior 23MEE7123 Corporate Finance and Portfolio Management	23MEE8101 Supply Chain and Logistics Management 23MEE8111 Advertising and Sales Promotion 23MEE8121 Industrial Psychology and Organizational Behaviour

IE - INDUSTRIAL ELECTIVE

Table 2

**MICRO SPECIALIZATION DOMAIN & ELECTIVES**

<b>Micro specialization</b>	<b>Foundation Course</b>	<b>Electives</b>
Manufacturing	23MEP403 Manufacturing Processes	<ul style="list-style-type: none"> <li>• 23MEE674 Advanced Metal Joining</li> <li>• 23MEE675 Advanced Metal Forming</li> </ul>
Production and Operations Management	23MET501 Production & Operations Management	<ul style="list-style-type: none"> <li>• 23MEE6104 Project Planning &amp; Management</li> <li>• Marketing Management</li> </ul>
Materials Testing and Applications	23MEJ303 Engineering Materials & Applications	<ul style="list-style-type: none"> <li>• 23MEE694 NDT of Materials</li> <li>• 23MEE695 Composite materials &amp; Advanced Materials</li> </ul>
Energy Engineering	23MEJ404 Heat Transfer & Thermal Machines	<ul style="list-style-type: none"> <li>• 23MEE625 Renewable Engineering and its Utilisation</li> <li>• 23MEE821 Energy Engineering and Management</li> </ul>
Mechanical Design	23MET401 Mechanics of Deformable Solids	<ul style="list-style-type: none"> <li>• 23MEE644 Mechanical Behaviour of Materials</li> <li>• 23MEE743 Advanced Mechanics of Solids.</li> </ul>

Table 3

**INDUSTRIAL ELECTIVES**

<b>Sl No</b>	<b>Code</b>	<b>Title</b>
1.	23MEI635	HVAC Systems & Applications
2.	23MEI645	Finite Element Analysis.
3.	23MEI685	Additive manufacturing
4.	23MEI6105	Industrial Quality Control

**4.2.2** The Department of Mechanical Engineering has proposed the following changes in the 2023 Scheme B.Tech Mechanical Engineering curriculum subject to the ratification of BoS Mechanical Engineering:

### Change in Course Category

Semester	Course Name	Existing Course Category	Revised Course Category
6	Computer Aided Design & Analysis	PBC	PCC

### Change in Course Code

Semester	Course Name	Existing code	Revised Course Code
3	Applied Thermodynamics	23MEP305	23MET305

#### **Resolution of Agenda item No. 4.2.1 and 4.2.2:**

**The Academic council approved all the corrections noted in the Agenda item No. 4.2.1 and 4.2.2**

### 4.2.3 Change in the course content

The third Academic council had approved the curriculum of B.Tech of S1-S2 Mechanical Engineering. The third meeting of the BoS of Mechanical Engineering held on 7<sup>th</sup> December 2023 resolved to recommend the Academic Council for minor corrections in the syllabus of the course 23ESP118 Computer Aided Drafting and Modelling in the Semester 1 of the UG Mechanical Engineering. The syllabus is attached separately. Since the course assessment is to be completed before the end semester examination to be held in January 2024, approval has been accorded by the Chairman Academic council to the proposed changes subject to the ratification of the Academic Council. The Academic Council ratified the approval.

#### **Resolution of Agenda item No. 4.2.3:**

**The Academic Council approved the decision of Chairman on the corrections noted in Agenda item No. 4.2.3**

### 4.3 Proposal from the Department of Electrical and Electronics Engineering

The BoS Electrical and Electronics Engineering has recommended the following changes in the 2023 Scheme B.Tech Electrical and Electronics Engineering curriculum:

#### 4.3.1 Change in Course Name

Semester	Course code	Existing course name	Revised course name recommended by BoS
3	23MAP301	Mathematics III	Advanced Linear Algebra, Complex Analysis and Partial Differential Equations
3	23HUT306	Professional Ethics and Life Skills for Engineers	Life Skills and Professional Ethics
7	23EEE703	Switchgear and Protective Relays	Numerical Relays for Power System Protection

#### 4.3.2 Change in Course Code

Semester	Course name	Existing course code	Revised course code recommended by BoS
3	Life Skills and Professional Ethics	23HUT306	23HUT310
4	Industrial Engineering and Management	23HUT505	23HUT512

#### 4.3.3 Change in Electives

The following are the electives offered in various semesters:

Semester	Course Name	Microspecialisation
S6-PEC I	Electric Power Utilization and Illumination	Power and Energy Systems

	Insulation and High Voltage Engineering	Computing and AI	
	Renewable and Distributed Energy Sources		
	Computer Organization and Architecture		
	<b>Probability and Random Process</b>		
	Data Structure and Algorithm		
	Advanced Electro-mechanics		Electric Vehicle Technology
	Electric Drives and Control		
			Instrumentation & Control
	Digital Control Systems		
	Biology for Engineers		
S6-IE	Industry Elective:Power systemCommunication and SCADA (KSEB)	Power and Energy Systems	
	Electric Vehicle System Design (BoSCH)	Electric Vehicle Technology	
S6-PEC II	Electrical Power Quality and Reliability	Power and Energy Systems	
	Smart Grid Technology		
	High Voltage Transmission		
	Object Oriented Programming	Computing and AI	
	<b>Embedded Systems</b>		
	<b>Multimedia Design and Development</b>		
	Artificial Intelligence with Python		
	<b>Generalized Theory of Electrical Machines</b>	Electric Vehicle Technology	
	<b>Modelling and Simulation of EHV</b>		



	Autonomous Vehicles	
	Modern Control Systems	Instrumentation &
	VLSI Circuits and Systems	Control

Semester	Course Name	SG
S7-PEC III	Switchgear and Protective Relays	Power and Energy Systems
	Power Electronics for Renewable Energy Systems	
	HVDC and Flexible AC Transmission Systems	
	Operating Systems	Computing and AI
	Fuzzy Logic and Neural Networks	
	Advanced Electrical Drives	Electric Vehicle Technology
	Dynamics and Control of EVs	
	Automotive Diagnostics	
	<b>Multivariable Control Theory</b>	Instrumentation & Control
	Advanced control systems	

Semester	Course Name	SG
S8-PEC IV	Operation and Planning of Power Distribution Systems	Power and Energy Systems
	Grid Integration of Renewable Energy Systems	
	Energy Storage Systems	
	Networks and Systems Security	Computing and AI
	<b>Pattern Recognition and Machine Learning</b>	
	<b>Automotive Embedded Systems</b>	Electric Vehicle Technology
	<b>In Vehicle Networking</b>	
	Testing and Certification of Electric and Hybrid Vehicles	

	<b>Industrial Instrumentation</b>	Instrumentation & Control
	<b>Autonomous Systems</b>	

The BoS Electrical and Electronics Engineering has recommended a reorder of the electives of B.Tech Electrical and Electronics Engineering program after removing courses having similar contents. The courses Probability and Random Process, Embedded Systems, Multimedia Design and Development, Generalized Theory of Electrical Machines, Modelling and Simulation of EHV, Multivariable Control Theory, Pattern Recognition and Machine Learning, Automotive Embedded Systems, In Vehicle Networking and Autonomous Systems are recommended for the removal from the curriculum. The proposed list of electives is as follows:

ELECTIVE LIST AFTER REORDERING FOR EEE		
Professional Elective Course I		
CODE	TITLE	Micro-specialisation
23EEE614	Electric Power Utilization and Illumination	Power and Energy Systems
23EEE624	Insulation and High Voltage Engineering	
23EEE634	Renewable and Distributed Energy Sources	
23EEE644	Computer Organization and Architecture	Computing and AI
23EEE654	Data Structure and Algorithm	
23EEE664	Advanced Electro-mechanics	Electric Vehicle Technology
23EEE674	Electric Drives and Control	
23EEE684	Digital Control Systems	Instrumentation & Control
23EEE694	Biology for Engineers	
Professional Elective Course II		
23EEE615	Electrical Power Quality and Reliability	Power and Energy Systems
23EEE625	Smart Grid Technology	
23EEE635	High Voltage Transmission	
23EEE645	Object Oriented Programming	Computing and AI
23EEE655	Autonomous Vehicles	Electric Vehicle Technology
23EEE665	Modern Control Systems	Instrumentation & Control
23EEE675	VLSI Circuits and Systems	
23EEE685	Artificial Intelligence with Python	Computing and AI
Professional Elective Course III		
23EEE713	Numerical Relays for Power System Protection	Power and Energy Systems
23EEE723	Power Electronics for Renewable Energy Systems	
23EEE733	HVDC and Flexible AC Transmission Systems	
23EEE743	Operating Systems	Computing and AI

23EEE753	Fuzzy Logic and Neural Networks	
23EEE763	Advanced Electrical Drives	Electric Vehicle Technology
23EEE773	Dynamics and Control of EVs	
23EEE783	Automotive Diagnostics	Instrumentation & Control
23EEE793	Advanced control systems	
<b>Professional Elective Course IV</b>		
23EEE811	Operation and Planning of Power Distribution Systems	Power and Energy Systems
23EEE821	Grid Integration of Renewable Systems	
23EEE831	Energy Storage Systems	
23EEE841	Networks and Systems Security	Computing and AI
23EEE851	Testing and Certification of Electric and Hybrid Vehicles	Electric Vehicle Technology
23EEE861	Medical Instrumentation	Instrumentation & Control
<b>Industry Elective</b>		
23EEI615	Power system Communication and SCADA (KSEB)	Power and Energy Systems
23EEI625	Electric Vehicle System Design (BoSCH)	Electric Vehicle Technology
<b>Open Elective</b>		
23EEO714	Renewable Energy Systems (Industry Elective - ANERT)	
23EEO812	Energy Conservation and Management	
23EEO822	Engineering Applications of Blockchain Technology	
23EEO813	Artificial Intelligence with Python	
23EEO823	Introduction to Electric and hybrid vehicles	

The BoS Electrical and Electronics Engineering has recommended the following changes in the 2023 Scheme B.Tech Electrical and Computer Engineering curriculum:

#### 4.3.4 Change in Course Name

Semester	Course code	Existing course name	Revised course name recommended by BoS
3	23MAP301	Mathematics III	Advanced Linear Algebra, Complex Analysis and Partial Differential Equations
3	23HUT306	Professional Ethics and Life Skills for	Life Skills and Professional Ethics

		Engineers	
4	23ERP407	OOPS with JAVA	Object Oriented Programming using JAVA
7	23ERP702	Industrial Instrumentation and Automation	Energy Systems

#### 4.3.5 Change in Course Code

Semester	Course name	Existing code	Revised course code recommended by BoS
3	Life Skills and Professional Ethics	23HUT306	23HUT310
4	Engineering Economics	23HUT405	23HUT415
5	Project Management and Finance	23HUT505	23HUT515

**4.3.6** The BoS Electrical and Electronics Engineering has recommended to add the Micro specialization “Power and Energy Systems” in the curriculum of B.Tech Electrical and Computer Engineering program, which is already approved for B.Tech Electrical and Electronics Engineering 2023 Scheme. The courses in Power and Energy Systems are as follows:

- Renewable and distributed energy systems
- Electrical power quality and reliability
- Power electronics for renewable energy system
- Grid integration of renewable energy systems

**Resolution of Agenda item No. 4.3.1 to 4.3.6:**

**The Academic council approved all the corrections noted in the Agenda item No. 4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6**

#### 4.3.7 Nomination of a subject expert in BoS Electrical and Electronics Engineering

Dr. Abdul Nazeer K A, Professor, Department of Computer Science Engineering, NIT Calicut is nominated to the BoS Electrical and Electronics Engineering as a subject expert for Electrical & Computer Program.

Academic council ratified the nomination of the subject expert.

**Resolution of Agenda item No. 4.3.7:**

**The Academic council ratified the decision of the chairman regarding the agenda item no. 4.3.7**

**4.4 Proposal from the Department of Electronics and Communication Engineering**

The BoS Electronics and Communication Engineering has recommended the following changes in the 2023 Scheme B.Tech Electronics and Communication Engineering curriculum:

**4.4.1 Change in Course Code**

Present Code	Category	Title	Required Code
23ECP304	PCC	Semiconductor Devices	23ECT304
23ECP305	PCC	Network Theory	23ECT305
23HUT306	HSMC	Life Skills and Professional Ethics	23HUT310
23HUT405	HSMC	Industrial Economics and Management	23HUT413
23HUT505	HSMC	Entrepreneurship and Startups	23HUT513

**4.4.2 Change in Course Name**

Semester	Code	Category	Present Title	Required Title
Semester 3	23MAP301	BSC	Mathematics III	Advanced Linear Algebra, Complex Analysis and Partial Differential Equations
Semester 3	23HUT306	HSMC	Professional Ethics	Life Skills and Professional Ethics
Semester 8	23ECO813	Open Elective III	Computer Vision	Introduction to Computer Vision
Semester 5	23ECM510	Minor Basket II Singal Processing	Digital Image Processing	Multimedia Processing and Forensics
Semester 4	23ECH410	Honor Basket II	Artificial Intelligence with Python	Artificial Intelligence
Semester 6	23ECH610	Honor Basket II	Artificial Intelligence for Robotics	Robotics and Artificial Intelligence

#### 4.4.3 Course Swapping:

Exchange the positions of the two credit courses '23ECP608 Machine Intelligence Methods and Applications' with '23ECP407 Data Science and Analytics'.

Semester	Code	Category	Present Title	Required Code and Title
Semester 4	23ECP407	BSC	Data Science and Analytics	23ECP407 Machine Intelligence Methods and Applications
Semester 6	23ECP608	BSC	Machine Intelligence Methods and Applications	23ECP608 Data Science and Analytics

#### 4.4.4 Course Rearrangement:

In order to align with prerequisite requirements, Courses in Honors Basket 1 and 2 are to be rearranged as follows:

<b>Honor's Basket 1:</b>	
<b>Present Order</b>	<b>Required Order</b>
23ECH409 Biosensors and Bioelectronics 23ECH509 Medical Imaging Systems 23ECH609 Biomedical signal processing 23ECH709 Medical Device Design	23ECH409 Biosensors and Bioelectronics 23ECH509 Medical Device Design 23ECH609 Biomedical signal processing 23ECH709 Medical Imaging Systems
<b>Honor's Basket 2:</b>	
<b>Present Order</b>	<b>Required Order</b>
23ECH410 Artificial Intelligence with Python 23ECH510 Deep Learning 23ECH610 Natural Language Processing 23ECH710 Artificial Intelligence for Robotics	23ECH410 Artificial Intelligence 23ECH510 Natural Language Processing 23ECH610 Robotics and Artificial Intelligence (Note the Change in Name) 23ECH710 Deep Learning

#### **Resolution of Agenda item No. 4.4:**

**The Academic council approved all the corrections noted in the Agenda item No. 4.4**

#### 4.5 Proposal from the Department of Computer Science and Engineering

The BoS Computer Science and Engineering has recommended the following changes in the 2023 Scheme B.Tech Computer Science and Engineering curriculum:

#### 4.5.1 Modifications to be made in the Course Name and Course Code

Semester	Current Course Code	Current Course Name	Required Course Code	Required Course Name
S3	23MAP301	Engineering Mathematics III	23MAP301	Advanced Linear Algebra, Complex Analysis and Partial Differential Equations
S3	23HUT306	Professional Ethics	23HUT310	Life Skills and Professional Ethics
S4	23HUT405	Management –I	23HUT414	Management I (Organizational Behavior)
S5	23HUT505	Finance and Accounting	23HUT514	Finance and Accounting
S6	23CSE6145	Medical Imaging	23CSE6145	Medical Image Analysis
S7	23CSM710	Advanced Computer Architecture	23CSH710	Advanced Computer Architecture
S7	23CSM711	Time Series Analysis and Forecasting	23CSH711	Time Series Analysis and Forecasting
S3	23CSM309	No change in the course name of the minor subjects in all baskets	23CSM3xx	No change in the course name of the minor subjects in all baskets
S4	23CSM409/ 23CSH409		23CSM4xx/23CSH4xx	
S5	23CSM509/ 23CSH509		23CSM5xx/23CSH5xx	
S6	23CSM609/ 23CSH609		23CSM6xx/23CSH6xx	
S7	23CSM709/ 23CSH709		23CSM709/ 23CSH7xx	

#### 4.5.2 Modification in the L-T-P-J structure

Semester	Current Course Code	Current Course Name	Current L-T-P-J structure	Required L-T-P-J structure
S7	23CSM709/ 23CSH709	PROJECT IN MINOR/HONORS/ REMEDIAL	0-0-0-4	0-0-0-4/4-0-0-0

#### Resolution of Agenda item No. 4.5:

The Academic council approved all the corrections noted in the Agenda item No. 4.5.1 and 4.5.2

#### 4.6 Proposal from the Department of Chemical Engineering

The BoS Chemical Engineering has recommended the following changes in the 2023 Scheme B.Tech Chemical Engineering curriculum:

##### 4.6.1 Change in Course Name

Semester	Course code	Existing course name	Revised course name recommended by BoS
3	23MAT301	Mathematics III	Probability Distributions and Complex Analysis
3	23EST302	Overview of Indian Chemical Industries	Overview of Chemical Industries

##### 4.6.2 Change in Course Code

Semester	Course name	Existing course code	Revised course code recommended by BoS
3	Material & Energy Balance Computations	23CHP305	23CHT305
3	Entrepreneurship and Startups	23HUT306	23HUT411
4	Life Skills and Professional Ethics	23HUT405	23HUT310
5	Economics & Management for Chemical Industries	23HUT505	23HUT515



#### 4.6.3 Change in Course Category

Semester	Course name	Existing course category	Revised course category recommended by BoS
5	Kinetics & Reactor Design	PCC	PBC

#### 4.6.4 Other Changes

Semester	Course Code & Name	Proposed change recommended by BoS
7	23CHP702 Biology & Biochemical Engineering	Total hours specified as 4 is to be modified to 5
7	23CHM709 / 23CHH709 Project in Minor / Honours / Remedial	Mark distribution for CIA and ESE to be modified as follows. CIA – 100 / 40 / 0 ESE – 0 / 60 / 0 The L-T-P-J pattern to be modified as 0/4 – 0 – 4/0 – 4/4

The course codes for different courses under Basket II and Basket III (Page Number 30, B Tech Curriculum 2023 & Syllabus Semester 1 and Semester 2) need to be modified as shown below:

Semester	BASKET I (Advanced Chemical Engineering)		BASKET II (Energy Engineering)		BASKET III (Process Control)	
	Course No.	Course Name	Course No.	Course Name	Course No.	Course Name
4	23CHH409	Computational Methods in Chemical Engineering	23CHH410	Biomass Conversion and Biorefinery	23CHH411	Modern Methods of Instrumentation

5	23CHH509	Advanced Heat Transfer	23CHH510	Technologies for Clean and renewable energy production	23CHH511	Soft Computing Techniques
6	23CHH609	Advanced Fluid Mechanics	23CHH610	Energy conservation and waste heat recovery	23CHH611	Modern Control Theory
7	23CHH709	Process Integration & Intensification	23CHH710	Energy Economics and Policy	23CHH711	Advanced Process Control
8	23CHH809	Project	23CHH810	Project	23CHH811	Project

**Resolution of Agenda item No. 4.6:**

**The Academic council approved all the corrections noted in the Agenda item No. 4.6**

**4.7 Proposal from the Department of Architecture**

The BoS Architecture has recommended the following changes in the 2023 Scheme B.Arch curriculum:

**4.7.1** The table on page 3 to be corrected as:

Sl. No	Knowledge Segment	Category description	Code	Credits
1.	Professional Courses (PC)			<b>139</b>
1.a		Architectural Design	ARD	<b>90</b>
1.b		Architectural Studies Architectural Theory	ARS	49
2.	Building Science and Applied Engineering (BS)			<b>63</b>
2.a		Building Construction	ARB	<b>31</b>
2.b		Basic and Building Sciences Applied Engineering	ARC	32
3.	Elective Course (EC)		ARE	<b>24</b>

4.	Professional Ability Enhancement Courses (PAC)	ARP	<b>26</b>
5.	Skill Enhancement Courses (SEC)	ARK	<b>08</b>
<b>Total Mandatory Credits</b>			<b>260</b>

**4.7.2** Fifth semester curriculum to be corrected as:

<b>FIFTH SEMESTER</b>													
Sl. No.	Slot	Code	Category	Title	L	T	P	S	No. of Hours	Credits	Total Marks		
											CIA	ESE	
1	S	23ARD501	PC	Architectural Design- IV	0	0	8	8	8	8	100	100	
2	A	23ARS502	PC	History of Architecture and Culture - IV	3	0	0	3	3	3	40	60	
3	B	23ARS503	PC	Interior Design	1	0	1	2	2	2	50	50	
4	C	23ARB504	BS	Building Materials and Construction Techniques- V	1	0	2	3	3	3	50	50	
5	D	23ACC505	BS	Theory of Structures - V	2	1	0	2	3	3	40	60	
6	E	23AMC506	BS	Building Services - III	2	0	1	3	3	3	40	60	
7	F	23ARE507	EC	Elective I	3	0	0	3	3	3	40	60	
8	T	23ARB508	BS	Working drawings	0	0	3	3	3	3	100	-	
<b>TOTAL</b>									<b>27</b>	<b>28</b>	<b>28</b>		

**PC- 13; BS -12; EC-3(PE- 3); PAC- 0; SEC- 0**

**4.7.3** The hours per week for Architectural Design per week to be decreased to 8 and credits for the course will be 8. The hours per week for working drawings to be increased to 3, and credits for Working drawings to be increased to 3. The total credits for the B.Arch program remains the same at 260 credits. This therefore will bring a corresponding correction in the syllabus where the hours and credits for Architectural Design IV to be changed to 8 and hours and credits for Working drawings to be changed to 3.

**4.7.4** The elective Tropical Architecture to be replaced by Sustainable Architecture and

syllabus for Sustainable Architecture is included.

**4.7.5** The Elective 23ARE903.5 Disaster Risk Management is to be renamed as Disaster Mitigation and Management.

**Resolution of Agenda item No. 4.7:**

**The Academic council approved all the corrections noted in the Agenda item No. 4.7**

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**Agenda Item: 5**

**Proposal to approve the amendments in UG and PG regulations of 2023 Scheme**

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**5.1** The following proposals received from the Dean Academics for the amendments in UG and PG regulations are placed before the Academic Council:

**5.1.1 Modification in B.Tech Regulation of 2023 Scheme**

- As per the existing regulation 23R8.5, “The main eligibility criteria for registering to the End Semester Examination for each course is 75% attendance in the course and no pending disciplinary action. Students who do not meet these eligibility criteria are awarded an FE grade”. This may be modified as “The main eligibility criteria for registering to the End Semester Examination for each course is 75% attendance in the course, **40 % marks for CIA** and no pending disciplinary action. Students who do not meet these eligibility criteria are awarded an FE grade”
- In the clause 23R8.3 it is suggested to incorporate one more evaluation pattern as “Pattern 3”. In pattern 3, there will be two questions, out of which one question is to be answered. Each question can have a maximum of 2 sub-divisions. Each question carries 40 marks. Total Marks: (1 x 40 = 40 Marks). ESE: 40 marks.

**5.1.2 Modification in MCA Regulation of 2023 Scheme**

As per the existing regulation 23R8.5, “The main eligibility criteria for registering to the ESE are attendance in the course and no pending disciplinary action. The minimum attendance for

appearing for the ESE is 75% in each course. Students who do not meet these eligibility criteria are awarded an FE grade”. This may be modified as “The main eligibility criteria for registering to the ESE are attendance, **minimum mark in CIA** in the course and no pending disciplinary action. The minimum attendance for appearing for the ESE is 75% **and 40 % marks for CIA** in each course. Students who do not meet these eligibility criteria are awarded an FE grade”.

**Resolution of Agenda item No. 5.1:**

**The Academic council approved all the modifications noted in the Agenda item No. 5.1**

**5.2** The following proposals received from the BoS Architecture for the amendments in B.Arch regulations of 2023 Scheme are placed before the Academic Council:

<b>23R3.7.2</b>	Existing Clause: Elective Courses (EC) Professional Elective: Refers to a set of courses that are more advanced or applied to a specialized sub-area than the basic courses a student studies as part of program core courses. Open Elective course: Refers to the course that the student shall mandatorily opt from the departments other than the one he/she is pursuing for the under graduate studies. It is intended to encourage cross and multidisciplinary learning.
	Modification suggested: Elective Courses (EC) Professional Elective: Refers to a set of courses that are more advanced or applied to a specialized sub-area than the basic courses a student studies as part of program core courses. Open Elective course: Refers to the course that the student shall mandatorily opt from the departments other than the one he/she is pursuing for the under graduate studies. It is intended to encourage cross and multidisciplinary learning. It can be a MOOC course also. The candidate shall produce the

	certification issued by the MOOC conducting agency in proof of credit attainment before the commencement of the ESE of the 9 <sup>th</sup> semester.
<b>23R3.7.5</b>	Existing Clause: Internship/ Practical Training: During their tenure in the institution, students get exposure to an academic environment that is different from their future work environment, viz. industry, wherein they are expected to be placed. To get this exposure, every B. Arch student shall have to mandatorily undergo six months of internship, with atleast 100 working days, in a reputed architectural firm with no less than five years of existence, under a registered architect, in the seventh semester. The organization for Internship shall be selected/decided by the students in consultation with the senior faculty advisor.
	Modification Suggested: Internship/ Practical Training: During their tenure in the institution, students get exposure to an academic environment that is different from their future work environment, viz. industry, wherein they are expected to be placed. To get this exposure, every B. Arch student shall have to mandatorily undergo six months of internship, or one semester of approximately 16 working weeks in a reputed architectural firm with no less than five years of existence, under a registered architect, in the seventh semester. The organization for Internship shall be selected/decided by the students in consultation with the senior faculty advisor.
<b>23R3.10.1</b>	Existing Clause: The MOOCs shall have a minimum duration of 8/12 weeks and the content of the syllabus shall be enough for at least 36/48 hours of teaching for a 3 or 4/5 credit course respectively.
	Modification Suggested: The MOOCs shall have a duration of 8/12 weeks and the content of the syllabus shall be enough for at least 36 hours of teaching for a 3 credit course.
<b>23R3.10.2</b>	Existing Clause: The students can undergo the MOOCs at their convenience, but shall complete it before the registration of end semester examination of 10th semester.
	Modification Suggested: The students can undergo the MOOCs at their convenience, but shall complete

	<p>it before the registration of end semester examination of the corresponding semester.</p>
<b>23R3.10.4</b>	<p>Existing Clause:</p> <p>The MOOCs for the tenth semester EC shall be approved for earning credits if its contents do not have more than 40% of overlap with any of the core/elective courses in the concerned discipline or with any of the open elective course the student has opted during the B. Arch program</p>
	<p>Modification Suggested:</p> <p>The MOOCs for the ninth and tenth semester EC shall be approved for earning credits if its contents do not have more than 40% of overlap with any of the core/elective courses in the concerned discipline or with any of the open elective course the student has opted during the B. Arch program.</p>
<b>23R6.1</b>	<p>Existing Clause:</p> <p>There shall be one senior faculty advisor (SFA) for a batch in the department and a faculty advisor (FA) each for 25 to 35 students. The Principal shall assign a regular faculty member with minimum of five years of experience as the SFA, as recommended by Head of Department.</p>
	<p>Modification Suggested:</p> <p>There shall be one senior faculty advisor (SFA) for a batch in the department and a faculty advisor (FA) each for 40 students. The Principal shall assign a regular faculty member with minimum of five years of experience as the SFA, as recommended by Head of Department.</p>
<b>23R8.2.1</b>	<p>Existing Clause:</p> <p>Group V (ii) Practical Training, Critical analysis, Material study/ Market survey As per the B. Arch curriculum, students shall undergo practical training for one semester i.e., in the seventh semester of the B. Arch program. The training shall be under a registered architect having a minimum of five years of experience and approved by the institution. The duration of practical training shall be a minimum of 100 working days. Only those who have completed the practical training successfully will be permitted to register for the 8th semester of the B. Arch degree course. Those students who fail to obtain 50% marks have to repeat the practical training.</p>

	<p>Modification Suggested:</p> <p>Group V (ii) Practical Training, Critical analysis, Material study/ Market survey</p> <p>As per the B. Arch curriculum, students shall undergo practical training for one semester i.e., in the seventh semester of the B. Arch program. The training shall be under a registered architect having a minimum of five years of experience and approved by the institution. The duration of practical training shall be six months or a semester of sixteen working weeks. . Only those who have completed the practical training successfully will be permitted to register for the 8th semester of the B. Arch degree course. Those students who fail to obtain 50% marks have to repeat the practical training.</p>
<b>23R8.3.1</b>	<p>Existing Clause:</p> <p>The students with the result declared as ‘Failed due to less CIA’ are required to secure a minimum of 40% for the Continuous Internal Assessment (CIA) to become eligible to appear for Supplementary Jury.</p> <hr/> <p>Modification Suggested:</p> <p>The students with the result declared as ‘Failed due to less CIA’ and registered for supplementary chance shall attend the additional studio hours conducted in the institution and improve the assignments and portfolio under the guidance of the faculty member assigned.</p> <p>The following to be deleted:</p> <p>The Jury marks for supplementary chance will be limited to the minimum required for a passing Grade (i.e.50% of CIA and Final Jury assessment put together).</p>
<b>23R8.3.2</b>	<p>Existing Clause:</p> <p>One External examiner: An Architect registered with the Council of Architecture with not less than 10 years of experience from the approved panel issued by the University.</p> <hr/> <p>Modification Suggested:</p> <p>One External examiner: An Architect registered with the Council of</p>



	Architecture with not less than 10 years of experience from the approved panel issued by the Institution.
<b>23R8.13.1</b>	Equivalent percentage mark shall be = 10 * CGPA In place of Equivalent percentage mark shall be = 10 * CGPA -2.5
<b>23R8.19</b>	Equivalent percentage mark shall be = 10 * CGPA In place of Equivalent percentage mark shall be = 10 * CGPA -2.5
<b>23R9.1</b>	Existing Clause: Students who want to initiate a start-up venture or a product development, have to funding details and future plans to the college Principal. Modification Suggested: Students who want to initiate a start-up venture or a product development, have to provide funding details and future plans to the college Principal.
<b>23R8.5</b>	Existing Clause: The main eligibility criteria for registering to the End Semester Examination for each course is 75% attendance in the course and no pending disciplinary action. Students who do not meet these eligibility criteria are awarded an FE grade Modification Suggested: The main eligibility criteria for registering to the End Semester Examination for each course is 75% attendance in the course, <b>40 % marks for CIA</b> and no pending disciplinary action. Students who do not meet these eligibility criteria are awarded an FE grade

**Resolution of Agenda item No. 5.2:**

**The Academic council approved all the modifications noted in the Agenda item No. 5.2**

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## **Agenda Item: 6**

### **Proposal to approve the modifications in the Examination Manual 2022**

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Following modifications in the examination manual received from the Controller of Examination (CoE) Office are considered by the Academic Council

**i. Clause 3.4 ASSISTANT CONTROLLER OF EXAMINATIONS (ACoE)**

**Clause 3.4.1 Qualification and term of office**

Clause 3.4.1 says “ACoE should be a permanent faculty of the College with above 10 years of total experience. The term of his/her office will be for two academic years.”

**Modification proposed in Clause 3.4.1**

“ACoE should be a permanent faculty of the College faculty at a level of Associate Professor/ permanent faculty of the College with above 10 years of total experience. The term of his/her office will be for two academic years.”

**ii. Clause 4.3 SETTING OF QUESTION PAPERS**

In the last paragraph of the clause it is said that “CoE shall do a random selection of one QP from the three approved QPs, 90 minutes prior to the commencement of the examination, and hand it over to ACoE.” A sentence shall be added to the last paragraph of the Clause 4.3 as follows: “Under unavoidable circumstances, the CoE shall do a random selection of one QP from the three approved QPs on the previous day of the examination and hand it over to the ACoE.”

**iii. Clause 6.11.2.9** says “In case the student does not pass all the registered theory courses, after distributing the total moderation among the registered theory courses, no moderation shall be given to any course.”

**Modification proposed in Clause 6.11.2.9:** “In case the student does not pass all the registered theory courses, after distributing the total moderation among the registered theory courses, no more moderation shall be given to any course.”

The Academic Council resolved to approve the modifications of clause 3.4.1 and clause 6.11.2.9 in the examination manual. The members expressed concern over the modification of the clause

4.3 in the examination manual. However, due to the compulsion of the situation, the Council resolved to approve the modification of clause 4.3 in the examination manual for a period of two years. Hence the suggested modification in the clause 4.3 will be read as “Under unavoidable circumstances, the CoE shall do a random selection of one QP from the three approved QPs on the previous day of the examination and hand it over to the ACoE, for a period of two years from the date of this academic council meeting ie. 25<sup>th</sup> January 2025.”

**Resolution of Agenda item No. 6:**

**The Academic Council resolved to approve the modifications of clause 3.4.1 and clause 6.11.2.9 in the examination manual. The Academic Council resolved to approve the modification of clause 4.3 in the examination manual as follows: “Under unavoidable circumstances, the CoE shall do a random selection of one QP from the three approved QPs on the previous day of the examination and hand it over to the ACoE, for a period of two years from the date of this academic council meeting ie. 25<sup>th</sup> January 2025.”**

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**Agenda Item: 7**

**Proposal to effect the modifications made by KTU in 2022 Scheme**

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A proposal is placed before the Academic Council to permit the Chairman of Academic Council to effect the changes in the Regulations, Curriculum and Syllabus of 2022 Scheme B.Tech, B.Arch, MCA and M.Tech in accordance with the modifications made by APJ Abdul Kalam Technological University from time to time. The Academic Council approved the aforementioned proposal.

**Resolution of Agenda item No. 7:**

**The academic council resolved to approve the agenda item no. 7**

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**Agenda Item: 8****Academic Calendar: 2023 – 24 Even Semester**

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Academic calendar for the 2023-24 Even Semester was approved by the Chairman, Academic Council subject to the approval of Academic Council. The decision of the Chairman on the above item was ratified by the Academic Council.

**Resolution of Agenda item No. 8:**

**The Academic Council ratified the Chairman's approval of the 2023-24 Even semester academic calendar.**

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**Agenda Item: 9****Proposal of special chance for students involved in sports activities to re-appear for End Semester Examinations**

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A proposal was received from the Head of Physical Education Department to grant a special chance to the 2022 onwards admitted UG and PG students, who have participated in various sports activities representing the University to re-appear for the examinations for which they could not appear due to coincidence of examinations and sports activities. The following are the details of the proposal:

- Period of participation in the National / International sports and Republic Day parades (including attending coaching / training camps) representing the University or State, shall be considered as special leaves. However, minimum attendance of 50% of the hours engaged, is required to become eligible for appearing for End Semester Examination for such students
- Alternate chances, shall be given to the students who are not able to appear for internal examinations / complete other requirements such as assignments due to participation in the National / International and Republic Day parades, representing the University or State

- If the participation in the National / International events and Republic Day parades, representing the University or State is during the End Semester Examinations, the next available chance shall be considered as the first chance.

**Resolution of Agenda item No. 9:**

**The academic council resolved to approve the agenda item no. 9**

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**Agenda Item: 10**

**Any other matter**

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Any other matter permitted by the Chairman. Academic Council

**10.1 Value-added courses for imparting transferable and life skills**

The following Add-on courses imparting transferable and life skills, offered by various Departments are submitted before the Academic Council.

<b>Name of Department / Program</b>	<b>Name of Course</b>	<b>Course Duration (hours)</b>
Department of Mechanical Engineering	MET FFA-A course on Fluid Flow Analysis using ANSYS	40
	Add-on course on MEM AM-Advanced course on 3D modeling and 3D printing	40
	MET RAC-Refrigeration and Air conditioning	40
	MED AFB-ARDUINO for Beginners	40
Department of Civil Engineering	Introduction to PLAXIS and MATLAB	35
	Geometric Design	30
Department of	Add-on Course and Hands-on Workshop on LATEX	30

Mathematics		
Department of Architecture	6 day Skilling program - Product design	30
	Role of Bamboo in Architecture	30
	BIM Course- REVIT in Architecture	30
Department of Chemical Engineering	Bridging Academics with Chemical Industry Operations	30
	Introduction to Python and Data Science	30
	Introduction to Electrochemistry	30
Centre for Artificial Intelligence	Deep Learning for Beginners	30
	Python Programming	30
Department of Electrical and Electronics Engineering	Add on course on Engineering Workshop including Arduino Programming	30
	Add on course on Simulation Practices using LT spice and MATLAB	30
	Add on Course on CAD Training	30
	Add on course on Engineering Skills	30
Department of Computer Applications	Introduction to Programming	30
	Introduction to Scripting Languages	30
Department of Computer Science	AI Gamification and Metaverse	30
	Full Stack Technologies	30
	Geo Spatial Data Processing using ML Techniques	30
Department of Electronics and Communication	Introduction to Python Programming	30

The Departments have conducted the above mentioned courses and certificates were issued to the participants. The Academic Council ratified the above listed courses.

**Resolution of Agenda item No. 10:**

**The academic council resolved to ratify the approval of all courses listed in the agenda item no. 10.1**

The Chairman thanked all members for active participation and valuable suggestions given.  
Meeting ended at 12 Noon.

Chairman  
Academic Council  
TKM College of Engineering