ISO 9001:2015 AICTE-CII: GOLD Category Institute NAAC-'A' Grade Institute (CGPA:3.21) NIRF-2020 Rank Band: 201-250

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.
काकतीय प्रैद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ तेलंगाना, भारत
కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ – ౫౦౬ ౦౧౫ తెలంగాణా, భారతదేశము
(An Autonomous Institute under Kakatiya University, Warangal)
(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

B. TECH.CURRICULUM

ACADEMIC YEAR:2026–27

DEPARTMENTOFELECTRONICS & COMMUNICATION ENGINEERING

Revised Undergraduate Rules and Regulations-2026(URR26)
In accordance with the National Education Policy 2020
w.e.f AY 2026-27

Regulations Governing the
Choice Based Credit System and
Multiple Entry and Multiple Exit Options
with
Competency-Focused Outcome Based Curriculum (CF-OBC)

SCHEME OF INSTRUCTIONS

SEMESTER-WISECURRICULUM WITH SCHEME OF INSTRUCTIONS

Abbreviations

L	Lecture Hour	E	Total Engagement in Hours
T	Tutorial Hour	C	Credit Assigned
P	Practical Hour		

I SEMESTER (ForStream – I)

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
-	IKSC	U26IK100	AICTE Mandated Student Induction Programme (Universal Human Values - I)					-
1	BSC	U26MH101	Differential Calculus and Ordinary Differential Equations	2	1	-	3	3
2	BSC	U26PY102E	Engineering Physics	2	1	-	3	3
3	ESC	U26EC103	Programming for Problem Solving with C	2	1	-	3	3
4	ESC	U26EE104B	Basic Electrical Engineering	2	1	-	3	3
5	PCC	U26EC105	Basic Electronics	2	1	-	3	3
6	BSC	U26PY106E	Engineering Physics Laboratory	-	-	2	2	1
7	ESC	U26EC107	Programming for Problem Solving with C Laboratory	-	-	2	2	1
8	ESC	U26EE108B	Basic Electrical Engineering Laboratory	-	-	2	2	1
9	PCC	U26EC109	Basic Electronics Lab	-	-	2	2	1
10	AEC	U26AE110	IDEA Lab Makerspace	-	-	2	2	1
			Total:	**10**	**5**	**10**	**25**	**20**
Summer/ Inter-sem Bridge Courses (Approved by BoS and Dean,AA): 1 week to 10 days: 1 credit to each Bridge course under additional learning (will be printed on grade sheet)				**NIL**				

II SEMESTER (ForStream – I)

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
1	BSC	U26MH201	Matrix Theory and Vector Calculus	2	1	-	3	3
2	BSC	U26CY202X	Engineering Chemistry	2	1	-	3	3
3	ESC	U26EC203	Data Structures through C	2	1	-	3	3
4	HSMC	U26MH204	English Communication and Report Writing	2	1	-	3	3
5	PCC	U26EC205	Analog Electronic Circuits	2	1	-	3	3
6	BSC	U26CY206X	Engineering Chemistry Laboratory	-	-	2	2	1
7	ESC	U26EC207	Data Structures through C Laboratory	-	-	2	2	1
8	VAC	U26VA208	Sports & Yoga	-	-	2	2	1
9	PCC	U26EC209	Analog Electronic Circuits Lab	-	-	2	2	1
10	ESC	U26ME210	Engg. Graphics & CAD*	-	-	2	2	1
			Total:	**10**	**5**	**10**	**25**	**20**
Summer/ Inter-sem Bridge Courses (Approved by BoS and Dean,AA): 1 week to 10 days: 1 credit to each Bridge course under additional learning (will be printed on grade sheet)								

Bridge Courses for exit:

Successful completion of twosubjects (6-Credits)during 2-months internship at the institute
OR
Successful completion of twosuitable skill based courses (external) to qualify for Certification

A. After First Year: (UG Certificate in ECE)

(i) The candidate should pass any two of the following additional courses (ITI Level) during the 2-Months internship at institute

Exit Option to Qualify UG Certificate in ECE: Any Two (02) Courses during the 2 - Months internship									
S. No.	Category	Course Code	Course Title	L	T	P	O	E	C
1	PCC	U26EC212X	Industrial Electronics	2	-	2	-	4	3
2	PCC	U26EC213X	Electronic Measuring Instruments	2	-	2	-	4	3
3	PCC	U26EC214X	PCB Design and Fabrication	2	-	2	-	4	3
4	PCC	U26EC215X	Any other course approved by BoS Chair andDean AA	2	-	2	-	4	3

(OR)

(ii) Any two suitable skill based courses to qualify for Certification.

Exit Option to Qualify UG Certificate in ECE: Any Two (02) Skill based Courses -:									
S. No.	Category	Course Code	Course Title	L	T	P	O	E	C
1	SEC	U26SE212X	Consumer Electronics	-	-	6	-	6	3
2	SEC	U26SE213X	DTH set-top-Box Installer and Service technician	-	-	6	-	6	3

			https://nsdcindia.org/dth-set-top-box-installation-service-technician						
3	SEC	U26SE214X	CCTV Installation Technician –IT Hardware https://nsdcindia.org/cctv-installation-technician	-	-	6	-	6	3
4	SEC	U26SE215X	Electronics Servicing and Maintenance	-	-	6	-	6	3
5	SEC	U26SE216X	Any other skill-based course approved by BoS Chair and Dean AA	-	-	6	-	6	3

III SEMESTER

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
1	BSC	U26MH301X	Branch Specific Mathematics	2	1	-	3	3
2	PCC	U26EC302	Switching Theory and Logic Design	2	1	-	3	3
3	PCC	U26EC303	Integrated Circuits Applications	2	1	-	3	3
4	PCC	U26EC304	Signals and Systems	2	1	-	3	3
5	ESC	U26EC305	OOP through Java#	2	1	-	3	3
6	PCC	U26EC306	Wave shaping and Network synthesis	2	1	-	3	3
7	PCC	U26EC307	Electronics Simulation Lab	-	-	2	2	1
8	PCC	U26EC308	Integrated Circuits Applications Laboratory	-	-	2	2	1
9	ESC	U26EC309	OOP through Java Laboratory	-	-	2	2	1
			Total:	**12**	**6**	**6**	**24**	**21**
Summer/ Inter-semBridge Courses (Approved by BoS and Dean,AA): 1 week to 10 days: 1 credit to each Bridge course under additional learning (will be printed on grade sheet)				"Programming in C" bridge course for Non-CS/IT Lateral Entry students				

Branch Specific Mathematics (Pool - XIII)		
S. No.	**Course Code**	**Course Title**
1.	U26MH301A	Numerical and Statistical Methods***(for CE)***
2.	U26MH301B	Applied Mathematics***(for ME)***
3.	U26MH301C	Applied Mathematics ***(for ECI, EEE & ECE)***
4.	U26MH301D	Essential Mathematics and Statistics for Machine learning ***(for CSM)***
5.	U26MH301E	Essential Mathematics and Statistics for Data science ***(for CSD)***

IV SEMESTER

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
1	PCC	U26EC401	Digital Design	2	1	-	3	3
2	PCC	U26EC402	Communication Systems	2	1	-	3	3
3	PCC	U26EC403	Electromagnetic Waves and Transmission Lines	2	1	-	3	3
4	PCC	U26EC404	Computer Organization and Microprocessors	2	1	-	3	3
5	ESC	U26EC405	Python Programming	2	1	-	3	3
6	VAC	U26CY406	Environmental Studies	2	-	-	2	1
7	PCC	U26EC407	Digital Design Laboratory	-	-	2	2	1
8	PCC	U26EC408	Communication Systems Laboratory	-	-	2	2	1
9	ESC	U26EC409	Python Programming Laboratory	-	-	2	2	1
10	VAC	U26VA410	Soft & Interpersonal Skills	-	-	2	2	1
			Total:	**12**	**5**	**8**	**25**	**20**
Summer/ Inter-semBridge Courses (Approved by BoS and Dean,AA): 1 week to 10 days: 1 credit to each Bridge course under additional learning (will be printed on grade sheet)				NIL				

Bridge Courses for exit:

Successful completion of twosubjects (6-Credits)during 2-months internship at the institute

OR

Successful completion of twosuitable skill based courses (external) to qualify for Certification

B. After Second Year: (UG Diploma in ECE)

(i) The candidate should pass any two of the following additional courses (Diploma Level) during the 2-Months internship at institute

Exit Option to Qualify UG Diploma in ECE: Any Two (02) Courses during the 2 - Months internship									
S. No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**O**	**E**	**C**
1	PCC	U26EC412X	Basic Embedded Systems	2	-	2	-	4	3
2	PCC	U26EC413X	Fundamentals of IoT (Internet of Things)	2	-	2	-	4	3
3	PCC	U26EC414X	VLSI Design,Tools & Technology	2	-	2	-	4	3
4	PCC	U26EC415X	Any other course approved by BoS Chair andDean AA	2	-	2	-	4	3

(OR)

(ii) Any two suitable skill-based courses to qualify for Diploma.

Exit Option to Qualify UG Diploma in ECE: Any Two (02) Skill based Courses -:									
S. No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**O**	**E**	**C**
1	SEC	U26SE412X	Digital Cable TV Technician https://www.essc-india.org/images/QPs/Digital%20Cable%20Technician%20-%20Access%20-%20ELE_Q8106_v4.0.pdf	-	-	6	-	6	3
2	SEC	U26SE413X	Arduino Based Embedded System Design https://www.nielit.gov.in/sites/default/files/headquarter/Certificate%20Course%20in%20ARDUINO%20based%20Embedded%20System%20Design.pdf	-	-	6	-	6	3
3	SEC	U26SE414X	VLSI Design using EDA Tools https://www.nielit.gov.in/sites/default/files/Delhi/VLSI%20DESIGN%20AND%20TOOL.pdf	-	-	6	-	6	3
4	SEC	U26SE415X	Optical fiber Technicianhttps://rajshaladarpan.nic.in/sd2/Home/Public2/VocationalSchool/Curriculum/11th_12th_Telecom.pdf	-	-	6	-	6	3
5	SEC	U26SE416X	Any other skill based course approved by BoS Chair and Dean AA	-	-	6	-	6	3

B. Tech Honours with Research:

Students opting for B. Tech Honours with Research, shall undergo a 2-Month Mandatory Research Internship-I (5 Credits)at respective department during the summer vacation after IV Semester.

V SEMESTER

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
1	OE	U26OE501X-SE	Open Elective –SE	2	1	-	3	3
2	ESC	U26EC502	Linear Control Systems	2	1	-	3	3
3	PCC	U26EC503	VLSI Design	2	1	-	3	3
4	ESC	U26EC504	Artificial Intelligence and Machine Learning	2	1	-	3	3
5	PCC	U26EC505	Antennas and Wave Propagation	2	1	-	3	3
6	IKSC	U26IK506A	Universal Human Values – II	2	-	-	2	2
7	HSMC	U26MH507	English Language Lab	-	-	2	2	1
8	PCC	U26EC508	VLSI Design Lab	-	-	2	2	1
9	ESC	U26EC509	Artificial Intelligence and Machine Learning Lab	-	-	2	2	1
10	ELC	U26EC510	Seminar	-	-	2	2	1
			Total:	**12**	**5**	**8**	**25**	**21**
Additional Learning@: Maximum credits allowed for Honours/Minor				-	-	-	-	5
Total credits for Honours/Minor students:				-	-	-	-	26
Summer/ Inter-semBridge Courses (Approved by BoS and Dean,AA): 1 week to 10 days: 1 credit to each Bridge course under additional learning (will be printed on grade sheet)				**NIL**				

Pool -XV **Startups & Entrepreneurship Basket (OE - S&EB)**		
S. No.	**Course Code**	**Course Title**
1.	**U26OE501A-SE**	Design Thinking
2.	**U26OE501B-SE**	Innovative Product Design and Development
3.	**U26OE501C-SE**	Entrepreneurship
4.	**U26OE501D-SE**	Design Studio
5.	**U26OE501Z-SE**	Any other course approved by BoS Chair and Dean AA

VI SEMESTER

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
1	OE	U26OE601X-MB	Open Elective – MB	2	1	-	3	3
2	PEC	U26EC602	Program Elective –I / MOOCs-I	2	1	-	3	3
3	PCC	U26EC603	Digital Signal Processing and Applications	2	1	-	3	3
4	PCC	U26EC604	System Verilog for Design and Verification	2	1	-	3	3
5	PCC	U26EC605	Microcontrollers and Applications	2	1	-	3	3
6	IKSC	U26IK606B	Essence of Indian Traditional Knowledge	2	-	-	2	2
7	PCC	U26EC607	Digital Signal Processing and Applications Lab	-	-	2	2	1
8	PCC	U26EC608	System Verilog for Design and Verification Lab	-	-	2	2	1
9	PCC	U26EC609	Microcontrollers and Applications Lab	-	-	2	2	1
10	ELC	U26EC610	Mini Project	-	-	2	2	1
			Total:	**12**	**5**	**8**	**25**	**21**
Additional Learning@:Maximum credits allowed for Honours/Minor				-	-	-	-	5
Total credits for Honours/Minor students:				-	-	-	-	26
Summer/ Inter-semBridge Courses (Approved by BoS and Dean,AA): 1 week to 10 days: 1 credit to each Bridge course under additional learning (will be printed on grade sheet)				NIL				

Pool -XVII Management Courses Basket (OE-MB)		
S. No.	**Course Code**	**Course Title**
1.	U26OE601A-MB	Management Economics and Accountancy
2.	U26OE601B-MB	Engineering Finance
3.	U26OE601C-MB	OrganisationalBehaviour
4.	U26OE601D-MB	E-Commerce and Digital Marketing
5.	U26OE601Z-MB	Any other course approved by BoS Chair and Dean AA

Bridge Courses for exit:

Successful completion of twosubjects (6-Credits)during 2-months internship at the institute
OR
Successful completion of twosuitable skill based courses (external) to qualify for Certification

C. After Third Year: (B. Voc. in ECE)

(i) The candidate should pass any two of the following additional courses (Degree Level) during the 2-Months internship at institute

Exit Option to Qualify B. Voc in ECE: Any Two (02) Courses during the 2 - Months internship									
S. No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**O**	**E**	**C**
1	PCC	U26EC610X	VLSI Design, Tools & Technology	2	-	2	-	4	3
2	PCC	U26EC611X	5G and beyond 5G communications	2	-	2	-	4	3
3	PCC	U26EC612X	Real-Time Operating Systems (RTOS)	2	-	2	-	4	3
4	PCC	U26EC613X	Any other course approved by BoS Chair and Dean AA	2	-	2	-	4	3

(OR)

(ii) Any two suitable skill based courses to qualify forB. Voc in ECE Degree.

Exit Option to Qualify B. Voc in ECE: Any Two (02) Skill based Courses -:									
S. No.	**Category**	**Course Code**	**Course Title**	**L**	**T**	**P**	**O**	**E**	**C**
1	SEC	U26SE610X	Internet of Things (IOT) using Arduinohttps://www.nitttrchd.ac.in/imee/Labmanuals/manual%20Internet%20of%20Things%20I.pdf	-	-	6	-	6	3
2	SEC	U26SE611X	Embedded System Design using ARM/Cortex Micro Controller https://www.nielit.gov.in/aurangabad/content/certificate-course-embedded-system-design-using-arm-cortex-microcontroller-0	-	-	6	-	6	3
3	SEC	U26SE612X	Embedded System using 8051 and Arduinohttps://www.nielit.gov.in/sites/default/files/PDF/Training/EmbeddedSystemusing8051andArduino.pdf	-	-	6	-	6	3
4	SEC	U26SE613X	Any other skill-based course approved by BoS Chair and Dean AA	-	-	6	-	6	3

(Note to HoDs on PCC: Under PCC the departments shall plan appropriate courses upto 6th semester covering GATE syllabus).

VII SEMESTER

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
1	OE	U26OE701X-SD	Open Elective –SD	2	1	-	3	3
2	PEC	U26EC702	Program Elective - II/ MOOCs-II	2	1	-	3	3
3	PCC	U26EC703	Real Time Operating Systems	2	1		3	3
4	PCC	U26EC704	Internet of Things	2	1	-	3	3
5	PCC	U26EC705	Computer Vision and Image Processing	2	1	-	3	3
6	PCC	U26EC706	Real Time Operating Systems Lab	-	-	2	2	1
7	PCC	U26EC707	Internet of Things & Sensor Laboratory	-	-	2	2	1
8	ELC	U26EC708	Internship Evaluation	-	-	2	2	1
9	ELC	U26EC709	Major Project Phase-1 / Industrial Internship -1	-	-	8	8	4
			Total:	**10**	**5**	**14**	**29**	**22**
			Additional Learning@:Maximum credits allowed for Honours/Minor	-	-	-	-	4
			Total credits for Honours/Minor students:	-	-	-	-	26

Sustainable Development Goals Basket (OE - SDGB)		
S. No.	**Course Code**	**Course Title**
1.	U24OE701	Sustainable Waste Management and Circular Economy [CE]
2.	U24OE709	Sustainable AI [CSE(AI&ML)]
3.	U24OE716	Cyber Physical Systems [CSE(Networks)]
4.	U24OE718	Software Quality Assurance and Testing [CSE]
5.	U24OE727	Any other course approved by BoS Chair and Dean AA

List of courses for additional learning through MOOCs towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula

B. Tech Honours with Research

(i). Students opting for B. Tech Honours with Research, shall complete Research Methodology Course (4 Credits) through MOOCS (OR) a workshop / FDP of not less than one week on "Research Methodologies" (4 Credits).

(ii). Internship Evaluation for the students opting B. Tech Honours with Research,will be done on the 2-Month Research internship-II.

VIII SEMESTER

S. No.	Category	Course Code	Course Title	Lectures / week				Credits
				L	T	P	E	C
1	PEC	U26EC801	Program Elective - III / MOOCs-III	2	1	-	3	3
2	PEC	U26EC802	Program Elective - IV / MOOCs-IV	2	1	-	3	3
3	PCC	U26EC803	Radar and Satellite Communications	2	1	-	3	3
4	ELC	U26EC804	Major Project, Phase – 2 / Industrial Internship - 2	-	-	12	12	6
			Total:	6	3	12	21	15
Additional Learning@:Maximum credits allowed for Honours/Minor				-	-	-	-	4
Total credits for Honours/Minor students:				-	-	-	-	19

@ List of courses for additional learning through MOOCs towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula

B. Tech Honours with Research

Students opting for B. Tech Honours with Research, shall Publish a research paper in reputed journal indexed by SCI / SCOPUS/Web of Science (4 Credits).

SUMMARY

SEMESTER	I	II	III	IV	V	VI	VII	VIII	TOTAL
CREDITS	20	20	21	20	21	21	22	15	160

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROGRAM ELECTIVE COURSES (PEC)

There are six slots allotted to Program Elective Courses (PECs). An example for ECE is given below: Each major specialization of the B. Tech Programme is treated as a vertical.

VERTICAL/ PE	PE1	PE2	PE3	PE4
VERTICAL 1: VLSI	**U26EC602A:** Design for Testability	**U26EC702A:** VLSI Physical design	**U26EC801A:** Low power VLSI	**U26EC802A:** MEMS and NEMS
	(OR)			
	Equivalent MOOC approved by BoS Chair and Dean AA			
VERTICAL 2: Advanced Communications	**U26EC602B:** Data Communications and Computer Networks	**U26EC702B:** Wireless and Mobile Communications	**U26EC801B:** Free Space Optical Communications	**U26EC802B:** 5G and Beyond Wirelesss Communications (5G/6G)
	(OR)			
	Equivalent MOOC approved by BoS Chair and Dean AA			
VERTICAL3: Signal Processing	**U26EC602C:** Biomedical Signal Processing	**U26EC702C:** Advanced Signal Processing	**U26EC801C:** Digital Speech Processing	**U26EC802C:** DSP Processors and Architecture
	(OR)			
	Equivalent MOOC approved by BoS Chair and Dean AA			
VERTICAL 4: Embedded Systems	**U26EC602D:** Embedded system Design	**U26EC702D:** Embedded Linux Systems	**U26EC801D:** Embedded Automative Systems	**U26EC802D:** Robotics and Intelligent Systems
	(OR)			
	Equivalent MOOC approved by BoS Chair and Dean AA			
VERTICAL 5: AIML	**U26EC602E:** Deep Learning	**U26EC702E:** Generative Artificial Intelligence	**U26EC801E:** Natural Language Processing	**U26EC802E:** Predictive Analytics
	(OR)			
	Equivalent MOOC approved by BoS Chair and Dean AA			
VERTICAL 6: Internet of Things	**U26EC602E:** Sensors and Actuators for IoT	**U26EC702F:** IoT Architecture and Programming	**U26EC801F:** Cloud and Edge Computing for IoT	**U26EC802F:** Industrial IoT
	(OR)			
	Equivalent MOOC approved by BoS Chair and Dean AA			

OPEN ELECTIVE COURSES (OEC) SDG:

The following Courses will be offered by variousdepartment under OEC-SDGto the students of other branches:

VII SEMESTER		
1	U24OEX01	Sustainable Waste Management and Circular Economy (Offered by CE department)
2	U24OEX02	Carbon Reduction & Net Zero (Offered by EEE department)
3	U24OEX03	Sustainable Infrastructure (Offered by CE department)
4	U24OEX04	Introduction to Electric Vehicles (Offered by EEE department)
5	U24OEX05	Renewable Energy Systems(Offered by EEE department)
6	U24OEX06	Intelligent Imaging for Sustainable Engineering(Offered by ECE department)
7	U24OEX07	IoT based Precision Agriculture Technology for Crop Farming(Offered by CSE (Networks) department)
8	U24OEX08	Environment & Climate IoT(Offered by CSE(Networks)department)
9	U24OEX09	Sustainable AI(Offered by CSE(AI&ML)department)
10	U24OEX10	Smart Communication Systems for Sustainable Engineering(Offered by ECE department)
11	U24OEX11	Embedded Systems for Sustainable Innovation(Offered by ECE department)
12	U24OEX12	Sensors and Actuators for Sustainable Smart Cities and Healthcare(Offered by ECIEdepartment)
13	U24OEX13	Sustainable Embedded Solutions for Smart Cities and Healthcare(Offered by ECIE department)
14	U24OEX14	Internet of Medical Things(Offered by CSE(Networks) department)
15	U24OEX15	AI Ethics (Offered by CSE (AI&ML)department)
16	U24OEX16	Cyber Physical Systems (Offered by CSE(Networks) department)
17	U24OEX17	Cloud Computing(Offered by CSE Department)
18	U24OEX18	Software Quality Assurance &Testing(Offered by CSE department)
19	U24OEX19	Software Testing and Quality Assurance(Offered by ITdepartment)
20	U24OEX20	Object Oriented Programming through Java (Offered by ITdepartment)
21	U24OEX21	Web Technologies(Offered by IT Department)
22	U24OEX22	Internetworks and Virtualization(Offered by CSE (Networks)department)
23	U24OEX23	Network Automation(Offered by CSE (Networks)department)
24	U24OEX24	Smart and Sustainable Additive Manufacturing(Offered by ME department)
25	U24OEX25	Automotive Engineering for Sustainable Development(Offered by ME Department)
26	U24OEX26	Sustainable Heat and Energy Engineering(Offered by ME department)
27	U24OEX27	Any other course approved by BoS Chair and Dean AA