Hyderabad Karnataka Education Society's

POOJYA DODDAPPA APPA COLLEGE OF ENGINEERING

Aiwan-E-Shahi Area, Kalaburagi-585102, Karnataka
(An Autonomous Institution Affiliated to VTU, Belagavi.)
Grant-in- Aid Institution (Government of Karnataka) Accredited by NBA, New Delhi. Approved by AICTE, New Delhi.
Website: www.pdacek.ac.in Email ID: principal@pdaengg.com

SCHEME FOR 1ST YEAR

BACHELOR DEGREE IN ENGINEERING

(With effect from 2022 Academic Year)

Out Come Based Education With Choice Based Credit System

POOJYA DODDAPPA APPA COLLEGE OF ENGINEERING, KALABURAGI
SCHEME OF TEACHING AND EXAMINATION 2022
OUTCOME-BASED EDUCATION(OBE) AND CHOICE BASED CREDIT SYSTEM (CBCS)
(WITH EFFECT FROM THE ACADEMIC YEAR 2022-23)

I Semester CIVIL ENGJINEERING   **Chemistry Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	SDA (S)	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
1.	*ASC(IC)	22MATC11	Mathematics for Civil Engg. Stream-I	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22CHEC12	Chemistry for Civil Engg. Stream	Chemistry	3	0	2	0	03	50	50	100	04
3.	ESC	22CED13	Computer Aided Engineering Drawing	Civil/Mech Dept.	2	0	2	0	03	50	50	100	03
4.	ESC-I(IC)	22ESC145	Introduction to C Programming	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
5.	ETC	22ETC15X	Emerging Technology Courses	Any Engg. Dept.	3	0	0	0	03	50	50	100	03
6.	AEC	22ENG16	Communicative English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22ICO17	Indian Constitution	Humanities	1	0	0	0	1.0	50	50	100	01
8.	HSMS	22SFH18	Scientific Foundation of Health	Any Department	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

SDA-Skill Development Activities, **TD/PSB**- Teaching Department / Paper Setting Board, **ASC**-Applied Science Course, **ESC**- Engineering Science Courses, **ETC**-Emerging Technology Course, **AEC**- Ability Enhancement Course, **HSMS**-Humanity and Social Science and management Course, **SDC**- Skill Development Course, **CIE**–Continuous Internal Evaluation, **SEE**- Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course)

All 01 Credit- courses shall have the SEE of 01 hour 30 Minutes duration and the pattern of the question paper shall be MCQ

*-22MATS21 Shall have the 03 hours of theory examination(SEE), however, practical sessions question shall be included in the theory question papers

#-22CHES22- SEE shall have the 03 hours of theory examination and 02-03 hours of practical examination

ESC or ETC of 03 credits Courses shall have only a theory component (L:T :P:S=3:0:0:0) or if the nature the of course required experimental learning syllabus shall be designed as an Integrated course (L:T:P:S= 2:0:2:0),

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(WITH EFFECT FROM THE ACADEMIC YEAR 2022-23)

II Semester CIVIL ENGJINEERING **Physics Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATC21	Mathematics for Civil Engg. Stream-II	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22PHYC22	Physics for Civil Engg. Stream	Physics	3	0	2	0	03	50	50	100	04
3.	ESC	22CIV23	Engineering Mechanics	Civil Engg. Dept.	3	0	0	0	03	50	50	100	03
4.	ESC-II	22ESC242	Introduction to Electrical Engg.	Respective Engg. Dept.	3	0	0	0	03	50	50	100	03
5.	PLC (IC)	22PLC25X	Progrmming Language Courses	Any Engg. Dept.	2	0	2	0	03	50	50	100	03
6.	AEC	22PWS26	Professional Writing Skills in English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22KSK17/27 22KBK17/27	Samskrutika Kannada/ Balake Kannada	Humanities	1	0	0	0	1.5	50	50	100	01
8.	AEC/SDC	22IDT28	Innovation and Design Thinking	Any Department	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

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I Semester CERAMIC AND CEMENT TECHNOLOGY   **Chemistry Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
1.	*ASC(IC)	22MATC11	Mathematics for Civil Engg. Stream-I	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22CHEC12	Chemistry for Civil Engg. Stream	Chemistry	3	0	2	0	03	50	50	100	04
3.	ESC	22CED13	Computer Aided Engineering Drawing	Civil/Mech Dept.	2	0	2	0	03	50	50	100	03
4.	ESC-I(IC)	22ESC145	Introduction to C Programming	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
5.	ETC-I	22ETC15X	Emerging Technology Courses -I	Any Engg. Dept.	3	0	0	0	03	50	50	100	03
6.	AEC	22ENG16	Communicative English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22ICO17	Indian Constitution	Humanities	1	0	0	0	1.0	50	50	100	01
8.	HSMS	22SFH18	Scientific Foundation of Health	Any Department	1	0	0	0	1.5	50	50	100	01
			TOTAL							400	400	800	20

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II Semester CERAMIC AND CEMENT TECHNOLOGY **Physics Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Teaching Hours/Week				Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATC21	Mathematics for Civil Engg. Stream-II	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22PHYC22	Physics for Civil Engg. Stream	Physics	3	0	2	0	03	50	50	100	04
3.	ESC	22CIV23	Engineering Mechanics	Civil Engg. Dept.	3	0	0	0	03	50	50	100	03
4.	ESC-II	22ESC244	Introduction to Mechanical Engg.	Respective Engg. Dept.	3	0	0	0	03	50	50	100	03
5.	PLC (IC)	22PLC25X	Progrmming Language Courses	Any Engg. Dept.	2	0	2	0	03	50	50	100	03
6.	AEC	22PWS26	Professional Writing Skills in English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22KSK17/27 22BBK17/27	Samskrutika Kannada/ Balake Kannada	Humanities	1	0	0	0	1.5	50	50	100	01
8.	AEC/SDC	22IDT28	Innovation & Design Thinking	Any Department	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

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I Semester COMPUTER SCIENCE AND ENGINEERING STREAM (CSE/ISE/CSD/AIML)   **Physics Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Teaching Hours/Week				Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATS11	Mathematics for CSE Stream-I	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22PHYS12	Physics for CSE Stream	Chemistry	3	0	2	0	03	50	50	100	04
3.	ESC(IC)	22POP13	Principles of Programming using C	Respective Dept.	2	0	2	0	03	50	50	100	03
4.	ESC	22ESC143	Introduction to Electronics Engg.	Respective Engg. Dept.	3	0	0	0	03	50	50	100	03
5.	ETC-I	22ETC15X	Emerging Technology Courses	Any Engg. Dept.	3	0	0	0	03	50	50	100	03
6.	AEC	22ENG16	Communicative English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22KSK 17/27 22KBK 17/27	Samskrutika Kannada/ Balake Kannada	Humanities	1	0	0	0	1.5	50	50	100	01
8.	AEC/SDC	22IDT18	Innovation and Design Thinking	Humanities	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

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II Semester COMPUTER SCIENCE AND ENGINEERING (CSE/ISE/CSD/AIML)   **Chemistry Group**

Sl.No.	Course	Course Code	Course Title	Teaching Dept. / PSB	Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	SDA (S)	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
1.	*ASC(IC)	22MATS21	Mathematics for CSE Stream-II	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22CHE22	Chemistry for CSE Stream	Physics	3	0	2	0	03	50	50	100	04
3.	ESC	22CED23	Computer Aided Engineering Drawing	Civil Engg. Dept.	2	0	2	0	03	50	50	100	03
4.	ESC-II	22ESC242	Introduction to Electrical Engg.	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
5.	PLC	22PLC25X	Progrmming Language Courses	Any Engg. Dept.	2	0	2	0	03	50	50	100	03
6.	AEC	22PWS26	Professional Writing Skills in English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22ICO27	Indian Constitution	Humanities	1	0	0	0	1.0	50	50	100	01
8.	HSMS	22SFH28	Scientific Foundation of Health	Any Department	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

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I Semester MECHANICAL ENGINEERING STREAM/ ENERGY ENGG.   **Physics Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	**T**	**P**	**S**					
1.	*ASC(IC)	22MATM11	Mathematics for Mechanical Stream-I	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22PHYM12	Physics for Mechanical Stream	Physics	3	0	2	0	03	50	50	100	04
3.	ESC	22EME13	Elements of Mechanical Engg.	Civil / Mech Engg. Dept.	3	0	0	0	03	50	50	100	03
4.	ESC-I (IC)	22ESC145	Introduction to C Programming	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
5.	ETC	22ETC15X	Emerging Technology Courses	Any Engg. Dept.	3	0	0	0	03	50	50	100	03
6.	AEC	22ENG16	Communicative English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22KSK17 22KBK17	Samskrutika Kannada/ Balake Kannada	Humanities	1	0	0	0	1.5	50	50	100	01
8.	AEC/SDC	22IDT18	Innovation and Design Thinking	Humanities	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

SDA-Skill Development Activities, **TD/PSB**- Teaching Department / Paper Setting Board, **ASC**-Applied Science Course, **ESC**- Engineering Science Courses, **ETC**- Emerging Technology Course, **AEC**- Ability Enhancement Course, **HSMS**-Humanity and Social Science and management Course, **SDC**- Skill Development Course, **CIE**–Continuous Internal Evaluation, **SEE**- Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course)
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II Semester MECHANICAL ENGINEERING STREAM/ ENERGY ENGG.   **Chemistry Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Teaching Hours/Week				Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATM21	Mathematics for Mech Stream-II	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22CHEM22	Chemistry for Mechanical Stream	Chemistry	3	0	2	0	03	50	50	100	04
3.	ESC	22CED23	Computer Aided Engineering Drawing	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
4.	ESC-II	22ESC241	Introduction to Civil Engineering	Civil Engg. Dept.	3	0	0	0	03	50	50	100	03
5.	PLC(IC)	22PLC25X	Progrmming Language Courses	Any Engg. Dept.	2	0	2	0	03	50	50	100	03
6.	AEC	22PWS26	Professional Writing Skills in English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22ICO27	Indian Constitution	Humanities	1	0	0	0	1.0	50	50	100	01
8.	HSMS	22SFH28	Scientific Foundation of Health	Any Department	1	0	0	0	1.5	50	50	100	01
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I Semester INDUSTRIAL AND PRODUCTION ENGINEERING   **Physics Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Teaching Hours/Week				Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATM11	Mathematics for Mechanical Stream-I	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22PHYM12	Physics for Mechanical Stream	Physics	3	0	2	0	03	50	50	100	04
3.	ESC	22EME13	Elements of Mechanical Engg.	Civil / Mech Engg. Dept.	3	0	0	0	03	50	50	100	03
4.	ESC-I(IC)	22ESC145	Introduction to C Programming	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
5.	ETC	22ETC15X	Emerging Technology Courses	Any Engg. Dept.	3	0	0	0	03	50	50	100	03
6.	AEC	22ENG16	Communicative English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22KSK17 22KBK17	Samskrutika Kannada/ Balake Kannada	Humanities	1	0	0	0	1.5	50	50	100	01
8.	AEC/SDC	22IDT18	Innovation and Design Thinking	Humanities	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

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II Semester INDUSTRIAL AND PRODUCTION ENGINEERING　　　　　　　　　　　　　　　　　　**Chemistry Group**

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					L	T	P	S					
1.	*ASC(IC)	22MATM21	Mathematics for Mech Stream-II	Maths	3	0	2	0	03	50	50	100	04
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3.	ESC	22CED23	Computer Aided Engineering Drawing	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
4.	ESC-II	22ESC242	Introduction to Electrical Engineering	Civil Engg. Dept.	3	0	0	0	03	50	50	100	03
5.	PLC(IC)	22PLC25X	Progrmming Language Courses	Any Engg. Dept.	2	0	2	0	03	50	50	100	03
6.	AEC	22PWS26	Professional Writing Skills in English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22ICO27	Indian Constitution	Humanities	1	0	0	0	1.0	50	50	100	01
8.	HSMS	22SFH28	Scientific Foundation of Health	Any Department	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

SDA-Skill Development Activities, **TD/PSB**- Teaching Department / Paper Setting Board, **ASC**-Applied Science Course, **ESC**- Engineering Science Courses, **ETC**-Emerging Technology Course, **AEC**- Ability Enhancement Course, **HSMS**-Humanity and Social Science and management Course, **SDC**- Skill Development Course, **CIE**–Continuous Internal Evaluation, **SEE**- Semester End Examination, **IC** – Integrated Course (Theory Course Integrated with Practical Course)

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POOJYA DODDAPPA APPA COLLEGE OF ENGINEERING, KALABURAGI

SCHEME OF TEACHING AND EXAMINATION 2022

OUTCOME-BASED EDUCATION(OBE) AND CHOICE BASED CREDIT SYSTEM (CBCS)

(WITH EFFECT FROM THE ACADEMIC YEAR 2022-23)

I Semester ELECTRICAL AND ELECTRONICS ENGINEERING   **Chemistry Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Teaching Hours/Week				Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATE11	Mathematics for EEE Stream-I	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22CHEE12	Chemistry for EEE Stream	Chemistry	3	0	2	0	03	50	50	100	04
3.	ESC	22CED13	Computer Aided Engineering Drawing	Civil/Mech Dept.	2	0	2	0	03	50	50	100	03
4.	ESC-I(IC)	22ESC145	Introduction to C Programming	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
5.	ETC	22ETC15X	Emerging Technology Courses	Any Engg. Dept.	3	0	0	0	03	50	50	100	03
6.	AEC	22ENG16	Communicative English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22ICO17	Indian Constitution	Humanities	1	0	0	0	1.0	50	50	100	01
8.	HSMS	22SFH18	Scientific Foundation of Health	Any Department	1	0	0	0	1.5	50	50	100	01
			TOTAL							400	400	800	20

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OUTCOME-BASED EDUCATION(OBE) AND CHOICE BASED CREDIT SYSTEM (CBCS)
(WITH EFFECT FROM THE ACADEMIC YEAR 2022-23)

II Semester ELECTRICAL AND ELECTRONICS ENGINEERING **Physics Group**

Sl.No.	Course	Course Code	Course Title	Teaching Dept. / PSB	Theory Lecture L	Tutorial T	Practical/ Drawing P	SDA S	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
1.	*ASC(IC)	22MATE21	Mathematics for EEE Stream-II	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22PHYE22	Physics for EEE Stream	Physics	3	0	2	0	03	50	50	100	04
3.	ESC	22EEE23	Elements of Electrical Engineering	Elect Engg. Dept.	2	2	0	0	03	50	50	100	03
4.	ESC-II	22ESC243	Introduction to Electronics Engg.	Respective Engg. Dept.	3	0	0	0	03	50	50	100	03
5.	PLC (IC)	22PLC25X	Progrmming Language Courses	Any Engg. Dept.	2	0	2	0	03	50	50	100	03
6.	AEC	22PWS26	Professional Writing Skills in English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22KSK17/27 22KBK17/27	Samskrutika Kannada/ Balake Kannada	Humanities	1	0	0	0	1.5	50	50	100	01
8.	AEC/SDC	22IDT28	Innovation and Design Thinking	Any Department	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

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(WITH EFFECT FROM THE ACADEMIC YEAR 2022-23)

I Semester ECE/E&IE — **Chemistry Group**

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Teaching Hours/Week				Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATE11	Mathematics for EEE Stream-I	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22CHEE12	Chemistry for EEE Stream	Chemistry	3	0	2	0	03	50	50	100	04
3.	ESC	22CED13	Computer Aided Engineering Drawing	Civil/Mech Dept.	2	0	2	0	03	50	50	100	03
4.	ESC-I(IC)	22ESC145	Introduction to C Programming	Respective Engg. Dept.	2	0	2	0	03	50	50	100	03
5.	ETC	22ETC15X	Emerging Technology Courses	Any Engg. Dept.	3	0	0	0	03	50	50	100	03
6.	AEC	22ENG16	Communicative English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22ICO17	Indian Constitution	Humanities	1	0	0	0	1.0	50	50	100	01
8.	HSMS	22SFH18	Scientific Foundation of Health	Any Department	1	0	0	0	1.5	50	50	100	01
				TOTAL						400	400	800	20

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(WITH EFFECT FROM THE ACADEMIC YEAR 2022-23)

II Semester ECE/E&IE | | | | | | | | | | | | **Physics Group** | | |

Sl.No.	Course Course Code		Course Title	Teaching Dept. / PSB	Teaching Hours/Week				Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in Hours	CIE MARKS	SEE MARKS	TOTAL MARKS	Credits
					L	T	P	S					
1.	*ASC(IC)	22MATE21	Mathematics for EEE Stream-II	Maths	3	0	2	0	03	50	50	100	04
2.	#ASC(IC)	22PHYE22	Physics for EEE Stream	Physics	3	0	2	0	03	50	50	100	04
3.	ESC	22BEE23	Introduction to Electronics Engineering	Respective Engg. Dept.	3	0	0	0	03	50	50	100	03
4.	ESC-II	22ESC244	Introduction to Mechanical Engg.	Respective Engg. Dept.	3	0	0	0	03	50	50	100	03
5.	PLC (IC)	22PLC25X	Progrmming Language Courses	Any Engg. Dept.	2	0	2	0	03	50	50	100	03
6.	AEC	22PWS26	Professional Writing Skills in English	Humanities	1	0	0	0	1.5	50	50	100	01
7.	HSMS	22KSK17/27 22KBK17/27	Samskrutika Kannada / Balake Kannada	Humanities	1	0	0	0	1.5	50	50	100	01
8.	AEC/SDC	22IDT28	Innovation and Design Thinking	Any Department	1	0	0	0	1.5	50	50	100	01
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ESC-I - Engineering Science Courses - I

Code	Title	L	T	P
22ESC141	Introduction to Civil Engineering	3	0	0
22ESC142	Introduction to Electrical Engineering	3	0	0
22ESC143	Introduction to Electronics Engineering	3	0	0
22ESC144	Introduction to Mechanical Engineering	3	0	0
22ESC145	Introduction to C Programming	2	0	2

ETC-I - Emerging Technology Courses - I

Code	Title	L	T	P
22ETC15A	Green Buildings	3	0	0
22ETC15B	Introduction to Solar PV Systems	3	0	0
22ETC15C	Renewable Energy Sources	3	0	0
22ETC15D	Introduction to Internet of Things (IoT)	3	0	0
22ETC15E	Introduction to Cyber Security	3	0	0

PLC-I - Programming Language Courses - I

Code	Title	L	T	P
22PLC15A	Introduction to Web Programming	2	0	2
22PLC15B	Introduction to Python Programming	2	0	2
22PLC15C	Introduction to C++ Programming	2	0	2
22PLC15D	C and UNIX Programming	2	0	2
22PLC15E	Basics of JAVA Programming	2	0	2

The course 22ESC145/245, Introduction to C Programming and all courses under PLC and ETC groups can be taught by faculty of ANY DEPARTMENT

ESC-II - Engineering Science Courses - II		L	T	P
Code	**Title**	**L**	**T**	**P**
22ESC241	Introduction to Civil Engineering	3	0	0
22ESC242	Introduction to Electrical Engineering	3	0	0
22ESC243	Introduction to Electronics Engineering	3	0	0
22ESC244	Introduction to Mechanical Engineering	3	0	0
22ESC245	Introduction to C Programming	2	0	2

ETC-II - Emerging Technology Courses - II		L	T	P
Code	**Title**	**L**	**T**	**P**
22ETC25A	Green Buildings	3	0	0
22ETC25B	Introduction to Solar PV Systems	3	0	0
22ETC25C	Renewable Energy Sources	3	0	0
22ETC25D	Introduction to Internet of Things (IoT)	3	0	0
22ETC25E	Introduction to Cyber Security	3	0	0

PLC-II- Programming Language Courses - II		L	T	P
Code	**Title**	**L**	**T**	**P**
22PLC25A	Introduction to Web Programming	2	0	2
22PLC25B	Introduction to Python Programming	2	0	2
22PLC25C	Introduction to C++ Programming	2	0	2
22PLC25D	C and UNIX Programming	2	0	2
22PLC25E	Basics of JAVA Programming	2	0	2

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