

B.Tech. (Electronics & Communication Engg.)

Semester III

Sr. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
	KOE031-38/ KAS302	Engg. Science Course /Maths IV	3	1	0	30	20	50		100		150	4
1.	KAS301/ KVE301	Technical Communication /Universal Human values	2	1	0	30	20	50		100		150	3
			3	0	0								
2.	KEC301	Electronic Devices	3	1	0	30	20	50		100		150	4
3.	KEC302	Digital System Design	3	1	0	30	20	50		100		150	4
4.	KEC303	Network Analysis and Synthesis	3	0	0	30	20	50		100		150	3
6.	KEC351	Electronics Devices Lab	0	0	2				25		25	50	1
7.	KEC352	Digital System Design Lab	0	0	2				25		25	50	1
8.	KEC353	Network Analysis and Synthesis lab	0	0	2				25		25	50	1
9.	KEC354	Mini Project or Internship Assessment	0	0	2			50				50	1
10.	KNC301 /KNC302	Computer System Security /Python Programming	2	0	0	15	10	25		50			0
11.		MOOCs (Essential for Hons. Degree)											
		TOTAL										950	22

*The Mini Project or internship (3-4 weeks) conducted during summer break after II semester and will be assessed during III semester.

Semester IV

Sr. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1.	KAS402/ KOE041-48	Maths-IV / Engg. Science Course	3	1	0	30	20	50		100		150	4
2.	KVE401/ KAS401	Universal Human Values/ Technical Communication	3	0	0	30	20	50		100		150	3
			2	1	0								
3.	KEC401	Communication Engineering	3	0	0	30	20	50		100		150	3
4.	KEC402	Analog Circuits	3	1	0	30	20	50		100		150	4
5.	KEC403	Signal System	3	1	0	30	20	50		100		150	4
6.	KEC451	Communication Engineering Lab	0	0	2				25		25	50	1
7.	KEC452	Analog Circuits Lab	0	0	2				25		25	50	1
8.	KEC453	Signal System Lab	0	0	2				25		25	50	1
9.	KNC402/ KNC401	Python Programming/ Computer System Security	2	0	0	15	10	25		50			0
10.		MOOCs (Essential for Hons. Degree)											
		TOTAL										900	21

ELECTRONICS AND COMMUNICATION ENGINEERING

B.Tech. V Semester Electronics and Communication Engineering

S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1	KEC-501	Integrated Circuits	3	1	0	30	20	50		100		150	4
2	KEC-502	Microprocessor & Microcontroller	3	1	0	30	20	50		100		150	4
3	KEC-503	Digital Signal Processing	3	1	0	30	20	50		100		150	4
4	KEC-051-054	Department Elective-I	3	0	0	30	20	50		100		150	3
5	KEC-055-058	Department Elective-II	3	0	0	30	20	50		100		150	3
6	KEC-551	Integrated Circuits Lab	0	0	2				25		25	50	1
7	KEC-552	Microprocessor & Microcontroller Lab	0	0	2				25		25	50	1
8	KEC-553	Digital Signal Processing Lab	0	0	2				25		25	50	1
9	KEC-554	Mini Project/Internship **	0	0	2				50			50	1
10	KNC501/KNC502	Constitution of India, Law and Engineering / Indian Tradition, Culture and Society	2	0	0	15	10	25		50			NC
11		MOOCs (Essential for Hons. Degree)											
Total												950	22

**The Mini Project or Internship (4weeks) conducted during summer break after IV Semester and will be assessed during Vth Semester.

Course Code

Course Title

Department Elective-I

KEC-051	Computer Architecture and Organization
KEC-052	Industrial Electronics
KEC-053	VLSI Technology
KEC-054	Advance Digital Design using Verilog

Department Elective-II

KEC-055	Electronics Switching
KEC-056	Advance Semiconductor Device
KEC-057	Electronics Measurement & Instrumentation
KEC-058	Optical Communication

**B.Tech. VI Semester
Electronics and Communication Engineering**

S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1	KEC-601	Digital Communication	3	1	0	30	20	50		100		150	4
2	KEC-602	Control System	3	1	0	30	20	50		100		150	4
3	KEC-603	Antenna and Wave Propagation	3	1	0	30	20	50		100		150	4
4		Department Elective-III	3	0	0	30	20	50		100		150	3
5		Open Elective-I	3	0	0	30	20	50		100		150	3
6	KEC-651	Digital Communication Lab	0	0	2				25		25	50	1
7	KEC-652	Control System Lab	0	0	2				25		25	50	1
8	KEC-653	Elective Lab	0	0	2				25		25	50	1
9	KNC601/ KNC602	Constitution of India, Law and Engineering / Indian Tradition, Culture and Society	2	0	0	15	10	25		50			NC
10		MOOCs (Essential for Hons. Degree)											
		Total										900	21

Course Code

Course Title

Department Elective-III

KEC-061	Microcontroller & Embedded System Design
KEC-062	Satellite Communication
KEC-063	Data Communication Networks
KEC-064	Analog Signal Processing
KEC-065	Random Variables & Stochastic Process

Course Code

Elective Lab

KEC-653A	Measurement & Instrumentation Lab
KEC-653B	Cad for Electronics Lab
KEC-653C	Microcontroller & Embedded System Design Lab

ELECTRONICS AND COMMUNICATION ENGINEERING

B.Tech. VII Semester Electronics and Communication Engineering

S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semester		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1.	KHU701/KHU702	HSMC -1 #/HSMC-2 #	3	0	0	30	20	50		100		150	3
2.	KEC-071-074	Department Elective –IV	3	0	0	30	20	50		100		150	3
3.	KEC-075-076	Department Elective –V	3	0	0	30	20	50		100		150	3
4.		Open Elective-II	3	0	0	30	20	50		100		150	3
5.	KEC-751X	Lab for Department Elective -	0	0	2					25	25	50	1
6.	KEC-752	Mini Project or Internship Assessment**	0	0	2					50		50	1
7.	KEC-753	Project I	0	0	8					150		150	4
		MOOCs (Essential for Hons. Degree)											
		Total										850	18

Course Code

Course Title

Department Elective-IV

KEC-071	Digital Image Processing
KEC-072	VLSI Design
KEC-073	Optical Network
KEC-074	Microwave & Radar Engineering

Department Elective-V

KEC-075	Information Theory & Coding
KEC-076	Wireless & Mobile Communication
KEC-077	Micro & Smart Systems
KEC-078	Speech Processing

Course Code

***Elective Lab

KEC751A	Digital Image Processing Lab
KEC751B	VLSI Design Lab
KEC751C	Optical System and Networking Lab
KEC751D	Microwave & Radar Engineering Lab

***Students will opt one subject from the list of Department Elective-IV with its corresponding lab. i.e. if someone has opted Digital Image Processing (KEC071) from Department Elective-IV then it will be mandatory to opt the DIP Lab (KEC751A).

ELECTRONICS AND COMMUNICATION ENGINEERING

B.Tech. VIII Semester

Electronics and Communication Engineering

S. No.	Course Code	Course Title	Periods			Evaluation Scheme				End Semeste		Total	Credits
			L	T	P	CT	TA	Total	PS	TE	PE		
1.	KHU801/KHU802	HSMC -1 #/HSMC-2 #	3	0	0	30	20	50		100		150	3
2.		Open Elective –III	3	0	0	30	20	50		100		150	3
3.		Open Elective –IV	3	0	0	30	20	50		100		150	3
4.	KEC-851	Project II	0	0	18				100		300	400	9
		MOOCs (Essential for Hons.											
		Total										850	18

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ACADEMIC CALENDAR FOR ODD SEMESTER : SESSION 2023-24 (AS PER AKTU CALENDAR)

For B.Tech, MBA & MCA (EXCEPT FIRST YEAR)

S.No.	Holidays	Date
1	Independence Day	15-Aug-2023
2	Raksha Bandhan	31-Aug-2023
3	Janmashtami	07-Sep-2023
4	Milad un-Nabi/Id-e-Milad	28-Sep-2023
5	Gandhi Jayanti,	02-Oct-2023
6	Maha Navmi	23-Oct-2023
7	Dussehra	24-Oct-2023
8	Dipawali (Mid Semester Break)	11-Nov-2023 to 19-Nov-2023
9	Christmas Day	25-Dec-2023
10	Guru Nanak Jayanti, Kartik Purnima	27-Dec-2023
Academic Activities		
1	Registration & Commencement of Class B.Tech (4 th Year)	16-Aug-2023
2	HOD Feedback of Class B.Tech (4 th Year)	30-Aug-2023
3	Registration & Commencement of Class B.Tech (2 nd & 3 rd Year)	01-Sep-2023
4	HOD Feedback of Class B.Tech (2 nd & 3 rd Year)	11-Sep-2023
5	Director Feedback of Class B.Tech (4 th Year)	11-Sep-2023
6	Director Feedback of Class B.Tech (2 nd & 3 rd Year)	20-Sep-2023
7	First C.R Meeting	25-Sep-2023
8	Registration & Commencement of Class MBA & MCA (2 nd Year)	03-Oct-2023
9	Compilation of Attendance Sessional I of Class B.Tech (2 nd , 3 rd & 4 th Year)	05-Oct-2023
10	Detention List & Dispatch of Detention Letter Sessional I of Class B.Tech (2 nd , 3 rd & 4 th Year)	06-Oct-2023
11	Sessional I Exams. Of Class B.Tech (2 nd , 3 rd & 4 th Year)	09-Oct-2023 to 11-Oct-23
12	HOD Feedback of Class MBA & MCA (2 nd Year)	11-Oct-2023
13	Dispatch of progress report Sessional I of Class B.Tech (2 nd , 3 rd & 4 th Year)	17-Oct-2023
14	Director Feedback of Class MBA & MCA (2 nd Year)	19-Oct-2023
15	Second C.R Meeting	26-Oct-2023
16	PTM	27-Oct-2023
17	Compilation of Attendance Sessional I of MBA & MCA (2 nd Year)	02-Nov-2023
18	Detention List & Dispatch of Detention Letter Sessional I of Class MBA & MCA (2 nd Year)	03-Nov-2023
19	Sessional I Exams. Of Class MBA & MCA (2 nd Year)	06-Nov-2023 to 09-Nov-2023
20	Course Revision & Model Paper Discussion of Class B.Tech(3 rd & 4 th year) & MBA, MCA(2 nd year)*	29-Nov-2023 to 30-Nov-2023
21	Internal Practical Viva-Voce of Class B.Tech(3 rd & 4 th year) & MBA, MCA(2 nd year)*	01-Dec-2023

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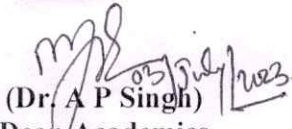
ACADEMIC CALENDAR FOR ODD SEMESTER : SESSION 2023-24 (AS PER AKTU CALENDAR)

For B.Tech, MBA & MCA (EXCEPT FIRST YEAR)

22	Compilation of Attendance Sessional II (PUT) of Class B.Tech(3 rd & 4 th year) & MBA, MCA(2 nd year)*	01-Dec-2023
23	Detention List (Sessional II) of Class B.Tech(3 rd & 4 th year) & MBA, MCA(2 nd year)*	01-Dec-2023
24	Sessional II Exams (PUT Exams.)of Class B.Tech(3 rd & 4 th year) & MBA, MCA(2 nd year)*	04-Dec-2023 to 09-Dec-2023
25	Course Revision & Model Paper Discussion of Class B.Tech (2 nd Year)*	12-Dec-2023 to 13-Dec-2023
26	Internal Practical Viva-Voce of Class B.Tech (2 nd year)*	15-Dec-2023
27	Compilation of Attendance Sessional II (PUT) of Class B.Tech (2 nd year)*	15-Dec-2023
28	Detention List (Sessional II) of Class B.Tech (2 nd year)*	15-Dec-2023
29	Sessional II Exams (PUT Exams.)of Class B.Tech (2 nd year)*	18-Dec-2023 to 22-Dec-2023
30	Preparation Holidays*	AS PER AKTU CALENDAR (2023-24)
31	Last Date of submitting internal sessional marks*	AS PER AKTU CALENDAR (2023-24)
32	University Exam - Practicals/Theory*	AS PER AKTU CALENDAR (2023-24)
33	Winter Vacation*	AS PER AKTU CALENDAR (2023-24)
34	*Subject to AKTU Guidelines	

INFORMATION FOR THE FACULTY

1	Prepare date-wise lecture plan and submit to the respective head of Department.
2	The attendance should be uploaded in the AKTU Web Portal on Daily basis
3	Answer Copies of Sessional Test/PUT should be evaluated and shown to the students within four days and ensure
4	No class should be left unattended as per the time table but if inevitable then proper intimation in this regard to


(Dr. A P Singh)
Dean Academics


03.07.2023
(Dr. S S Tyagi)
Director