Even Sem

Session 2022-23

CO Statement and CO-PO Mapping

Course Name/code: Technical Communication (KAS 401) **Session:2022-23** **Sem: IV Even Semester**			
S.No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Analyze the nature and objective of Technical Communication relevant for the workplace as Engineers.	BL 4 (Analyze)	K1, K2
2	Utilize the technical writing for the purposes of Technical Communication and its exposure in various dimensions.	BL 3 (Apply)	K2, K3
3	Imbibe presentation strategies inputs by presentation skills to enhance confidence in facing diverse audience in required situations at workplace.	BL 3 (Apply)	K2, K3, K4
4	Create a vast know-how of the application of the technical communicate to promote their competence for Report generation, Resume design, GD and Interview etc.	BL 6 (Create)	K2, K3, K4
5	Evaluate voice-dynamics and select appropriate cues for their own efficacy as fluent & efficient communicators.	BL 5 (Evaluate)	K2, K3

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1									**2**	**3**		**3**		
CO2									**2**	**3**		**3**		
CO3									**2**	**3**		**3**		
CO4									**2**	**3**		**3**		
CO5									**2**	**3**		**3**		
Target Level									**2**	**3**		**3**		

Course Name/code: Communication Engineering (KEC-401) Session:2022-23 Sem: IV Even Semester			
S. No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Apply the knowledge of signals and systems for different types of amplitude modulation systems	BL-3	Factual, Conceptual
2	Analyze frequency domain analysis for angle modulation systems.	BL-4	Conceptual
3	Evaluate the impact of AWGN Additive White Gaussian Noise for different analog modulation.	BL-5	Conceptual, Procedural
4	Integrate the concept of analog to digital baseband modulation techniques.	BL-5	Conceptual, Procedural
5	Apply the concept of digital baseband transmission to relate it with bandpass transmission techniques.	BL-3	Conceptual

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**-**	**1**	**1**	**2**
CO2	**3**	**3**	**3**	**1**	**2**	**-**	**-**	**-**	**-**	**2**	**-**	**1**	**2**	**_**
CO3	**3**	**3**	**2**	**2**	**1**	**-**	**-**	**-**	**-**	**1**	**-**	**1**	**2**	**_**
CO4	**3**	**3**	**3**	**2**	**2**	**-**	**-**	**-**	**-**	**2**	**-**	**1**	**_**	**_**
CO5	**3**	**2**	**1**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**-**	**1**	**2**	**_**
Target Level	**3**	**2.8**	**2.2**	**1.4**	**1.4**	**-**	**-**	**-**	**-**	**1.4**	**-**	**1**	**1.75**	**2**

Course Name/code: Analog Circuits/KEC-402 Session:2022-23 Sem: IV Even Semester			
S.No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Analyze various diode and amplifier circuits.	4	Conceptual & Procedural
2	Analyze various power amplifier circuits and feedback topologies	4	Conceptual & Procedural
3	Analyze sinusoidal and non-sinusoidal oscillators.	4	Conceptual & Procedural
4	Analyze Current mirror and Differential amplifier circuits	4	Conceptual & Procedural
5	Analyze Opamp based amplifiers and filters	4	Conceptual & Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**	**3**	**-**
CO2	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**	**3**	**-**
CO3	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**	**3**	**-**
CO4	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**	**3**	**-**
CO5	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**	**3**	**-**
Target Level	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**	**3**	

Course Name/code: Signals and Systems/ KEC403		**Session:2022-23**
Sem: IV Even Semester		
S.No	**Course Outcomes**	
Students will be able to	**Bloom Level**	**Knowledge Dimension**
1	Analyse different types of signals and systems.	4	Conceptual, procedural
2	Analyse linear shift-invariant (LSI) systems and its representation through differential and difference equation.	2	Conceptual, procedural
3	Analyse continuous and discrete systems in time and frequency domain using transform domain.	4	Conceptual, procedural
4	Analyse discrete time signals in z-domain.	4	Conceptual, procedural
5	Apply sampling theorem to continuous time signal.	3	Conceptual, procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO-	**3**	**3**	**2**	**2**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**-**		_
CO2	**2**	**2**	**3**	**3**	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
CO3	**2**	**3**	**3**	**3**	**1**	**2**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
CO4	**3**	**3**	**3**	**2**	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
CO5	**3**	**2**	**2**	**2**	**3**	**2**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
Target Level	**2.6**	**2.6**	**2.6**	**2.4**	**2.2**	**1.6**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**

Course Name/code: Communication Engineering Lab/ KEC-451 Session:2022-23 Sem: IV Even Semester			
S. No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Analyze different analog modulation schemes for their modulation factor and power	3	Conceptual, Procedural
2	Study pulse amplitude modulation	6	Conceptual, Procedural
3	Analyze different digital modulation schemes to compute the bit error performance	6	Conceptual, Procedural
4	Study of Phase shift keying.	4	Conceptual, Procedural
5	Design a front end BPSK modulator and demodulator	3	Conceptual, Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**2**	**3**	**2**		**1**	**1**	**-**	**-**	**-**	**2**	**1**			
CO2	**3**		**2**	**2**	**1**	**1**	**-**	**-**	**-**		**1**	**1**	**2**	
CO3		**3**	**2**		**2**	**1**	**-**	**-**	**-**		**2**			
CO4	**1**	**3**	**2**	**1**	**1**	**3**	**-**	**-**	**-**	**1**	**1**	**3**	**1**	
CO5	**3**		**2**	**2**	**1**	**1**	**-**	**-**	**-**	**2**	**1**	**1**	**1**	
Target Level	**2.2**	**3**	**2**	**1.6**	**1.2**	**1.4**	**-**	**-**	**-**	**1.6**	**1.2**	**1.6**	**1.3**	

Course Name/code: Analog circuit Lab (KEC-452)		**Session:2022-23**
Sem: IV Even Semester		
S.No	**Course Outcomes**	
Students will be able to	**Bloom Level**	**Knowledge Dimension**
1	Understand the characteristics of transistors.	2	Factual
2	Design and analyze various configurations of amplifier circuits	4	Conceptual
3	Design sinusoidal and non-sinusoidal oscillators.	4	Conceptual
4	Understand the functioning of OP-AMP and design OP-AMP based circuits.	4	Conceptual
5	Design ADC and DAC.	4	Conceptual

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**3**	**3**	**1**	**3**	**2**	**1**	**2**	**-**	**-**	**-**	**1**	**2**	**3**	
CO2	**3**	**2**	**1**	**3**	**1**	**2**	**2**	**-**	**-**	**-**	**3**	**3**	**3**	
CO3	**3**	**3**	**2**	**3**	**3**	**1**	**1**	**-**	**-**	**-**	**3**	**3**	**3**	
CO4	**2**	**3**	**1**	**2**	**3**	**1**	**1**	**-**	**-**	**-**	**1**	**3**	**3**	
CO5	**3**	**2**	**2**	**3**	**3**	**1**	**1**	**-**	**-**	**-**	**3**	**3**	**3**	
Target Level	**3**	**2.6**	**1.4**	**2.8**	**2.4**	**1.2**	**1.4**	**-**	**-**	**-**	**2.2**	**2.8**	**3**	

Course Name/code: Signal System LAB/ KEC453		**Session:2022-23**
Sem: IV EVEN Semester		
S.No	**Course Outcomes**	
Students will be able to	**Bloom Level**	**Knowledge Dimension**
1	Understand the basic functions of MATLAB.	2	Conceptual, Factual
2	Analyse various operations on signals using MATLAB.	4	Conceptual
3	Implement the concept of Fourier series and Fourier transforms.	3	Procedural
4	Analyse the stability of system using pole-zero and bode diagram.	4	Conceptual
5	Analyse the electrical circuit using SIMULINK.	4	Conceptual

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**3**	**3**	**2**	**2**	**3**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**-**
CO2	**3**	**2**	**3**	**3**	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**-**	**2**	**-**
CO3	**2**	**3**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**-**	**-**	**1**	**1**	**-**
CO4	**3**	**3**	**3**	**2**	**2**	**-**	**-**	**-**	**-**	**-**	**-**	**1**	**1**	**-**
CO5	**3**	**3**	**2**	**3**	**3**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
Target Level	**2.8**	**2.8**	**2.6**	**2.6**	**2.6**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**1.6**	**-**

Course Name/code: Digital communication/ KEC-601
Session:2022-23
Sem: VI Even Semester

S.N.	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Apply the concepts of probability theory for random variables and random process for digital communication.	Apply	Conceptual
2	Evaluation of PSDs and Pulse shaping theory for digital communication.	Analyze	Factual, Conceptual
3	Apply the concepts of digital modulation theory on various digital transmission schemes.	Apply	Conceptual
4	Analyze the theory of Matched filter and spread spectrum for digital wireless transmission.	Analyze	Conceptual
5	Apply the concept of information theory for data transmission.	Apply	Conceptual

Course:														
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO 1**	**PSO 2**
CO1	**1**	**-**	**-**	**2**	**-**	**1**	**-**	**-**			**-**	**1**	**1**	**1**
CO2	**1**	**2**	**2**	**-**	**-**	**1**	**-**	**-**			**1**	**1**	**2**	**2**
CO3	**2**	**2**	**2**	**2**	**3**	**2**	**-**	**-**			**2**	**3**	**2**	**2**
CO4	**2**	**2**	**2**	**3**	**2**	**2**	**-**	**-**			**2**	**2**	**2**	**2**
CO5	**2**	**3**	**2**	**3**	**2**	**3**	**-**	**-**			**2**	**1**	**3**	**3**
Target Level	**1.6**	**2.25**	**2**	**2.5**	**2.3**	**1.8**	**-**	**-**			**1.75**	**1.6**	**2**	**2**

Course Name/code: Control Systems/ KEC-602 Session:2022-23 Sem: VI Even Semester			
S. No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Determination of overall transfer function of a control system using block diagram, signal flow graph method & mathematical modelling of systems.	3	Conceptual, Procedural
2	Explain the concept of state variables for the representation of LTI system.	6	Conceptual, Procedural
3	Interpret the time domain response analysis for various types of inputs along with the time domain specifications	6	Conceptual, Procedural
4	Distinguish the concepts of absolute and relative stability for continuous data systems along with different methods	4	Conceptual, Procedural
5	Interpret the concept of frequency domain response analysis and their specifications.	3	Conceptual, Procedural

Mapping of Course outcomes with Program Outcomes														
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO 1**	**PSO 2**
CO1	**3**	**3**	**2**	**2**	**1**	**1**				**1**			**-**	**-**
CO2	**2**	**1**	**3**	**3**	**1**	**1**		**2**					**1**	**-**
CO3	**3**	**2**	**2**	**2**	**2**	**1**							**2**	**-**
CO4	**2**	**3**	**3**	**3**	**1**	**3**		**1**					**-**	**-**
CO5	**3**	**3**	**2**	**2**	**1**	**1**					**2**		**3**	**-**
Target Level	**2.6**	**2.4**	**2.4**	**2.4**	**1.2**	**1.4**		**1.5**		**1**	**2**		**2**	**-**

Course Name/code: Antenna & Wave Propagation/KEC-603 -23		**Session:2022**
Sem: VI Even Semester		
S.No	**Course Outcomes**	
Students will be able to	**Bloom Level**	**Knowledge Dimension**
1	Analyze coordinate system and vector calculus	4	Conceptual & Procedural
2	Analyze static electric field and magnetic field and current	4	Conceptual & Procedural
3	Analyze antenna fundamentals and radiation mechanism of the antenna	4	Conceptual & Procedural
4	Analyze and design different types of basic antennas	4	Conceptual & Procedural
5	Analyze the basic concepts of ground, space, sky wave propagation mechanism	4	Conceptual & Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO 1**	**PSO 2**
CO1	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**		**3**
CO2	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**1**		**0**
CO3	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**2**		**3**
CO4	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**3**		**3**
CO5	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**3**		**3**
Target Level	**3**	**3**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**1**	**1**	**2**		**2.4**

Course Name/code: Satellite Communication (KEC-062) Session:2022-23 Sem: VI Even Semester			
S.No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	**Understand the basics of satellite communication**	**2**	**Conceptual**
2	**Analyze the principles of orbital mechanics and various orbital effects**	**4**	**Procedural**
3	**Analyze the various subsystems and design satellite link for given specifications**	**4**	**Procedural**
4	**Understand the new technologies of satellite communication systems**	**2**	**Conceptual**
5	**Understand the advanced technologies in satellite communication and the Indian Satellite System**	**2**	**Conceptual**

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**1**	**-**	**-**	**1**	**-**								**1**	
CO2	**1**	**1**	**1**	**1**	**-**								**1**	
CO3	**1**	**1**	**2**	**2**	**2**								**2**	
CO4	**1**	**-**	**-**	**1**	**1**								**1**	
CO5	**-**	**-**	**-**	**1**	**1**								**1**	
Target Level	**1**	**1**	**1.5**	**1.2**	**1.3**								**1.4**	

Course Name/sub code : Microcontroller and Embedded Systems KEC 061 **Session: 2022-23 (Even Semester)**			**Sem: 6**
S.No	**Course Outcomes**		
Students will able to		**Bloom Level**	**Knowledge Dimension**
1	Understand the basic concepts in design of Embedded Systems	2	C
2	Understand the various aspects of Microcontrollers	3	P
3	Understand the various Communication Protocol	3	C
4	Understand the various Timer operations	2	C
5	Analyse the smaple embedded system on MSP 430.	3	C

Mapping of Course outcomes with Program Outcomes															
Course:															**CO wise Target Level**
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**	
CO1	2	2	3	3	1	2	-	-	-	1	-	1	3	2	
CO2	1	1	2	3	3	1	-	-	-	-	-	1	2	3	
CO3	3	2	1	2	1	1	-	-	-	-	-	1	2	3	
CO4	1	2	3	3	1	1	-	-	-	-	-	1	2	2	
CO5	2	2	2	3	1	1	-	-	-	-	-	1	2	2	
Target Level															

Course Name/code: Data Communication Networks/KEC-063 Session:2022-23 Sem: VI Even Semester			
S.No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Understand the basic concepts in design of Data communication networks	2	Conceptual
2	Understand the various aspects of physical layer and data link layer	2	Conceptual
3	Understand the various multiple Access technique and various IEEE standards	2	Factual
4	Understand the various protocols, IP addresses utilized in network layer and connecting devices	2	Conceptual
5	Analyze the protocols utilized in transport layer and application layer	3	Conceptual

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**2**	**2**	**3**	**3**	**1**	**2**	**-**	**-**	**-**	**1**	**-**	**1**	**3**	**-**
CO2	**1**	**2**	**2**	**3**	**3**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
CO3	**3**	**2**	**2**	**2**	**1**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
CO4	**2**	**2**	**3**	**3**	**2**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**2**
CO5	**2**	**2**	**2**	**3**	**1**	**1**	**-**	**-**	**-**	**-**	**-**	**1**	**2**	**-**
Target Level	**2**	**2**	**2.4**	**2.8**	**1.6**	**1.2**				**1**		**1**	**2.2**	**2**

Course Name/code : COI/ KNC-601 Session:2022-23 Sem: Odd Semester			
S.No	**Course Outcomes**		
Students will able to		**Bloom Level**	**Knowledge Dimension**
1	Identify and explore the Basic features and modalities about the Indian constitution.	Remember, Understand (1,2)	Conceptual
2	Differentiate and relate the functioning of Indian parliamentary system at the center and state level	Remember, Understand (1,2)	Conceptual
3	Differentiate different aspects of the Indian Legal System and its related bodies.	Remember, Understand (1,2)	Conceptual
4	Discover and apply different laws and regulations related to engineering practices.	Remember, Understand (1,2)	Conceptual, Procedural
5	Correlate role of engineers with different organizations and governance models	Remember, Understand (1,2)	Conceptual

Course Code:	**Programme Outcome (PO)**												**PSO**	**PSO**
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**1**	**2**
CO-1	-	-	-	-	-	**1**	**1**	-	-	-	-	-	-	-
CO-2	-	-	-	-	-	**1**	**1**	-	-	-	-	-	-	-
CO-3	-	-	-	-	-	**2**	**1**	**1**	-	-	-	-	-	-
CO-4	**1**	-	-	-	-	**2**	**2**	**1**	-	**1**	-	-	-	-
CO-5	**1**	-	-	-	-	**1**	**1**	**1**	**1**	**1**	**1**	**1**	-	-
Target Level	**1**	-	-	-	-	**1.4**	**1.2**	**1**	**1**	**1**	**1**	**1**	-	-

Course Name/code: Digital Communication Lab/KEC-651		**Session: 2022-2023**	**Sem: VI Even Semester**
S. No.	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Apply fundamental theories of digital communication system	BL-3	Conceptual & Procedural
2	Analyze mathematical aspects of communication theory using hardware tools.	BL-4	Conceptual & Procedural
3	Apply the knowledge of linear block codes for secure data transmission.	BL-3	Conceptual & Procedural
4	Analyze different techniques in modern digital communications using MATLAB tools.	BL-3	Conceptual & Procedural
5	Measure the performance of different modulation and demodulation techniques using virtual tools.	BL-5	Conceptual & Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO 1**	**PSO 2**
CO1	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO2	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO3	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO4	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO5	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
Target Level	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	

Course Name/code : Control system Lab/KEC-652 Sem:VI EVEN Semester			Session:2022-23
S.No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Demonstrate different tools in MATLAB along with the basic matrix operations used in MATLAB.	Apply	Factual, Conceptual, Procedural
2	Evaluate the poles and zeros on s-plane along with transfer function of a given system.	Evaluate	Conceptual, Procedural
3	Evaluate the various specifications of time domain response of a given system.	Evaluate	Conceptual, Procedural
4	Analyze the steady state error of a given transfer function.	Analyze	Conceptual, Procedural
5	Examine the relative stability of a given transfer function using various methods such as root locus, Bode plot and Nyquist plot.	Analyze	Conceptual, Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**1**	**2**	**2**	**2**	**3**	**1**	**-**	**-**	**3**	**1**	**2**	**2**	**1**	**2**
CO2	**1**	**3**	**1**	**-**	**3**	**1**	**-**	**-**	**2**	**2**	**1**	**2**	**2**	**-**
CO3	**2**	**3**	**2**	**3**	**3**	**2**	**-**	**-**	**2**	**2**	**1**	**2**	**2**	**-**
CO4	**2**	**2**	**2**	**3**	**3**	**1**	**-**	**-**	**2**	**2**	**2**	**2**	**3**	**-**
CO5	**2**	**3**	**3**	**3**	**3**	**1**	**-**	**-**	**3**	**2**	**2**	**3**	**3**	**-**
Target Level	**1.6**	**2.6**	**2**	**2.2**	**3**	**1.2**	**0**	**0**	**2.4**	**1.8**	**1.6**	**2.2**	**2.2**	**2**

Course Name/code: Cad for Electronics Lab/KEC-653B			**Session: 2021-22**
Sem: VI Even Semester			
S.No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Analyze the performance of different type of inverters using PSPICE.	4	Conceptual & Procedural
2	Analyze the performance of the CMOS based logic gates using PSPICE.	4	Conceptual & Procedural
3	Analyze the performance of CMOS based memory circuits using PSPICE.	4	Conceptual & Procedural
4	Analyze the performance of the different MOS based amplifier configurations using PSPICE.	4	Conceptual & Procedural
5	Analyze the performance of different digital circuits using VHDL	4	Conceptual & Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO2	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO3	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO4	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
CO5	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	**-**
Target Level	**2**	**2**	**3**	**3**	**3**	**-**	**-**	**-**	**-**	**3**	**1**	**2**	**3**	

Course Name/code: RD / KHU 801 Session: 2021-22 Sem:VIII Even Semester			
S.No	**Course Outcomes**		
Students will able to		**Bloom Level**	**Knowledge Dimension**
1	Understand the concepts , basics and importance of rural development.	2	Factual
2	Recognize and acquire knowledge of pre and post-independence rural development programs.	3	Factual
3	Understand the importance, structure, significance of Panchayati raj and rural administration.	2	Procedural
4	Understand about the need and importance of human resource development in rural sector.	2	Factual
5	Analyze the importance of rural industrialization and Entrepreneurship.	4	Conceptual, Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**1**	**1**	**-**	**-**	**-**	**3**	**-**	**2**	**3**	**-**	**-**	**2**	**-**	**-**
CO2	**-**	**1**	**-**	**-**	**-**	**3**	**-**	**1**	**1**	**-**	**-**	**1**	**-**	**-**
CO3	**-**	**1**	**-**	**-**	**-**	**3**	**-**	**1**	**2**	**-**	**-**	**2**	**-**	**-**
CO4	**-**	**2**	**-**	**-**	**-**	**3**	**1**	**2**	**2**	**-**	**-**	**2**	**-**	**-**
CO5	**1**	**2**	**-**	**-**	**1**	**3**	**2**	**2**	**2**	**-**	**2**	**3**	**-**	**-**
Target Level	**0.4**	**1.4**	**-**	**-**	**0.2**	**3**	**0.6**	**1.6**	**2**	**-**	**0.4**	**2**	**-**	**-**

Course Name / Code: Entrepreneurship Development / KOE-083		**Session: 2021-22**	
Sem: VIII Even Semester			
S. No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Understand the theories of entrepreneurship and Entrepreneurial Development Programmes.	2	Factual
2	Understand the importance of Project Management and Project's life cycle.	5	Conceptual, Procedural
3	Analyze the concept of Accountancy and Preparation of balance sheets.	4	Conceptual, Procedural
4	Understand the importance of Project Planning and control	4	Conceptual, Procedural
5	Analyze Social Sector Perspectives and Social Entrepreneurship regarding laws concerning entrepreneur.	4	Conceptual, Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	-	-	-	-	-	**1**	**1**	**2**	**2**	**-**	**3**	**1**	-	-
CO2	-	-	-	-	-	**2**	**2**	**3**	**3**	**-**	**3**	**2**	-	-
CO3	-	-	-	-	-	**3**	**3**	**2**	**3**	**-**	**3**	**2**	-	-
CO4	-	-	-	-	-	**2**	**3**	**2**	**3**	**-**	**3**	**2**	-	-
CO5	-	-	-	-	-	**2**	**3**	**3**	**2**	**-**	**3**	**3**	-	-
Target Level	-	-	-	-	-	**2**	**2.4**	**2.4**	**2.6**	-	**3**	**2**	-	-

Course Name/code: DSMM / KOE 094	Session: 2022-23	Sem: EVEN Semester

S.No	Course Outcomes		
	Students will able to	**Bloom Level**	**Knowledge Dimension**
1	Gain knowledge about basic concepts of Digital Marketing	2	Factual
2	Identify Social Media Marketing techniques suitable for a business.	3	Factual
3	Identify Multimedia Marketing and its uses in Digital Marketing.	2	Procedural
4	Apply Digital Marketing in an organization to make it a Digital Success	2	Factual
5	Design innovative ideas and trends to make business and marketing attractive.	4	Conceptual, Procedural

Mapping of Course outcomes with Program Outcomes

Course:															**CO wise Target Level**
PO	**PO 1**	**PO 2**	**PO 3**	**PO 4**	**PO 5**	**PO 6**	**PO 7**	**PO 8**	**PO 9**	**PO 10**	**PO 11**	**PO 12**	**PSO 1**	**PSO 2**	
CO1	1	1	-	-	-	3	-	2	3	-	-	2	-	-	
CO2	-	**2**	-	-	-	3	-	1	**1**	-	-	1	-	-	
CO3	-	1	-	-	-	3	-	1	2	-	-	**1**	-	-	
CO4	-	2	-	-	-	2	1	2	2	-	-	2	-	-	
CO5	1	2	-	-	**2**	2	2	2	2	-	2	3	-	-	
Target Level	**1**	**1.6**	**-**	**-**	**2**	**2.6**	**1.5**	**1.6**	**2**	**-**	**2**	**1.8**	**-**	**-**	

Course Name / Code: Project / KEC-854			**Session: 2021-22**
Sem: VIII Even Semester			
S. No	**Course Outcomes**		
Students will be able to		**Bloom Level**	**Knowledge Dimension**
1	Apply knowledge of fundamentals of Electronics, Programming and Communication Engineering to the analysis and design of a given problem.	3	Conceptual, Procedural
2	Identify and formulate the problem or project and find its solution which is practically feasible.	3	Conceptual, Procedural
3	Use the techniques, skills, and modern engineering tools such as logic works, VHDL, Cadence, MAT Lab necessary for engineering practice	3	Conceptual, Procedural
4	Function on multi-disciplinary teams through effective communication and team behavior.	5	Conceptual, Procedural
5	Accomplish the project to meet desired needs within realistic constraints of environment, economy and manufacturability	6	Conceptual, Procedural

Mapping of Course outcomes with Program Outcomes														
Course:														
PO	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO 10**	**PO 11**	**PO 12**	**PSO1**	**PSO2**
CO1	**1**	**3**	**2**	**-**	**1**	**2**	**2**	**1**	**3**	**2**	**3**	**1**	**1**	**1**
CO2	**2**	**3**	**3**	**2**	**-**	**-**	**-**	**3**	**-**	**-**	**1**	**-**	**1**	**-**
CO3	**2**	**2**	**3**	**1**	**2**	**2**	**2**	**-**	**3**	**-**	**-**	**3**	**2**	**1**
CO4	**-**	**3**	**2**	**3**	**2**	**1**	**1**	**-**	**2**	**2**	**2**	**2**	**-**	**1**
CO5	**3**	**3**	**3**	**2**	**3**	**2**	**2**	**2**	**1**	**-**	**1**	**1**	**2**	**3**
Target Level	**2**	**2.80**	**2.60**	**2**	**2**	**1.75**	**1.75**	**2**	**2.25**	**2**	**1.75**	**1.75**	**1.50**	**1.50**