



**CITY ENGINEERING COLLEGE**  
 Approved by AICTE New Delhi & Affiliated by VTU, Belagavi  
 Doddakallasandra, Off Kanakapura Main Road,  
 Next to Gokulam Apartment, Bangalore - 560 062.



Year / Semester: IV/VIII

Course Code/Course Name: 18AI81/Neural Networks and Deep Learning

Name of the Staff: Mrs. Vindhya

Scheme: 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-2024												
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment									
			CO1		CO2		CO3		CO4		CO5		Univ. Mark	Equiva- lent Grade	Attain- ment level	Course end survey									
S.No	USN No.	Name	100 IATI	Attain- ment level	100 IATI	Attain- ment level	100 IAT2	Attain- ment level	100 IAT3	Attain- ment level	100 IAT3	Attain- ment level				100 IAT3	Attain- ment level	3	3	3	3	3	CO1	CO2	CO3
1	1CE20AI001	Abdul faheem	78	3	80	3	82	3	100	3	100	3	59	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
2	1CE20AI002	Hajim Ahmed	88	3	90	3	90	3	90	3	90	3	79	3	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
3	1CE20AI003	Kedar Joshi	78	3	90	3	96	3	80	3	80	3	59	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
4	1CE20AI004	Kokila R	100	3	100	3	100	3	100	3	100	3	74	3	3	1	1	2	3	3	2.6	2.6	2.8	3	3
5	1CE20AI006	Sharon Carpenter Sebastian	82	3	69	2	70	3	100	3	100	3	63	2	2	3	3	3	3	3	2.36	2.2	2.36	2.36	2.36
6	1CE20AI007	Sharonam Sam	80	3	80	3	80	3	90	3	72	3	79	3	3	3	3	1	1	3	3	3	3	2.6	2.6
7	1CE20AI008	Suhag Gurusu	100	3	100	3	100	3	100	3	100	3	78	3	3	3	3	3	3	3	3	3	3	3	3
8	1CE20AI008	Syed Aiyash Baksh	95	3	98	3	100	3	86	3	68	2	77	3	3	3	3	1	1	3	3	2.6	2.6	2.84	2.84
<b>Total Strength</b>			8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
<b>Average Attainment</b>			3.00		2.88		3.00		3.00		2.88			2.38	2.75	2.75	2.63	2.50	2.75	2.55	2.53	2.53	2.50	2.53	
<b>Target : Class Average Attainment = 70% (2.1)</b>			-	Y	-	Y	-	Y	-	Y	-	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Course Outcome	Attainment Level	Level 1:
		Level 2:
	Level 3:	60-69% of students scored more than set target
CO1	2.65	Level 3: 70% and above of students scored more than set target
CO2	2.61	
CO3	2.63	
CO4	2.60	
CO5	2.61	
Average	2.62	

  

Tools	Weightage		Overall Weightage in Cos
	Internal	University	
Direct Assessment	60	40	80%
Course End Survey			20%

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.77	1.77	2.65	0.88	1.77	0.00	0.00	0.00	0.00	0.88	0.00	0.00	2.65	2.65	1.77
CO2	1.74	1.74	2.61	1.74	0.87	0.87	0.00	0.00	0.00	0.87	1.74	0.87	2.61	2.61	1.74
CO3	1.75	1.75	2.63	1.75	0.00	0.00	0.00	0.00	0.00	0.88	1.75	0.00	1.75	2.63	1.75
CO4	1.73	1.73	2.60	1.73	0.00	0.00	0.00	0.00	1.73	0.87	0.00	0.87	2.60	1.73	1.73
CO5	1.74	1.74	2.61	0.87	1.74	1.74	0.00	0.00	0.87	0.87	1.74	1.74	2.61	2.61	2.61
Average CO	1.75	1.75	2.62	1.40	1.40	1.31	0.00	0.00	1.31	0.87	1.75	1.13	2.44	2.44	1.75
Expected level	2.00	2.00	3.00	1.60	1.60	1.50	0.00	0.00	1.50	1.00	2.00	1.30	2.80	2.80	2.00
Target : Class Average Attainment = 70%	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	1	2	0	0	0	0	1	0	0	3	3	2
CO2	2	2	3	2	1	1	0	0	0	1	2	1	3	3	2
CO3	2	2	3	2	0	0	0	0	0	1	2	0	2	3	2
CO4	2	2	3	2	0	0	0	0	2	1	0	1	3	2	2
CO5	2	2	3	1	2	2	0	0	1	1	2	2	3	3	3
Average CO	2	2	3	1.6	1.6	1.5	0	0	1.04	1	2	1.3	2.8	2.8	2

*Prashant*  
Class Instructor

Dept of Artificial Intelligence & Machine Learning  
HoD *Vijay Kumar*

*Skalyan*  
PRINCIPAL  
CITY ENGINEERING COLLEGE  
Kanakapura Main Road, BANGALORE - 560 061



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Year / Semester: 4th / 8th

Course Code/Course Name: 18CS81/Internet of Things

Nmae of the Staff: Dr. Sowmya/Mrs. Shruthi B S

Scheme: 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-2024														
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment											
			CO1		CO2		CO3		CO4		CO5		Univ. Mark	Equiva lent Grade	Attain ment level	Course end survey											
S.No	USN No.	Name	IAT1	Attain ment level	IAT1	Attain ment level	IAT 2	Attain ment level	IAT3	Attain ment level	IAT3	Attain ment level	IAT3	Attain ment level				CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
					IAT2				IAT2									3	3	3	3	3					
1	1CE20CS001	ABHAY	38	1	65	2	55	1	32	1	32	1	53	1	1	3	3	3	3	3	3	1.4	1.56	1.4	1.4	1.4	
2	1CE20CS002	ABHINAV KUMAR SINGH	72	3	86	3	85	3	78	3	78	3	43	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72	
3	1CE20CS003	ABHISHEK VATS	72	3	86	3	85	3	78	3	78	3	55	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72	
4	1CE20CS004	ADARSH MISHRA S	62	2	81	3	79	3	78	3	78	3	60	2	2	2	2	2	3	3	3	2	2.16	2.16	2.16	2.36	2.36
5	1CE20CS005	ADITHI B	72	3	84	3	73	3	78	3	78	3	55	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72	
6	1CE20CS006	AFNAN AHMED	52	1	76	3	76	3	40	1	40	1	43	1	1	3	3	3	2	2	2	1.4	1.72	1.72	1.2	1.2	
7	1CE20CS007	AISHWARYA	72	3	86	3	85	3	78	3	78	3	75	3	3	3	3	3	3	3	3	3	3	3	3	3	
8	1CE20CS008	AJAY ANUPAM	29	1	64	2	73	3	78	3	78	3	48	1	1	3	3	2	2	3	3	1.4	1.56	1.52	1.52	1.72	
9	1CE20CS009	AMIR ANJUM	0	0	53	1	81	3	40	1	40	1	50	1	1	3	3	3	3	3	3	1.24	1.4	1.72	1.4	1.4	
10	1CE20CS010	AMULYA Y R	72	3	86	3	85	3	78	3	78	3	63	2	2	3	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36	
11	1CE20CS011	ANAND M	52	1	75	3	73	3	70	3	70	3	58	1	1	3	3	3	3	3	3	1.4	1.72	1.72	1.72	1.72	
12	1CE20CS012	ANANYA B C	72	3	86	3	85	3	78	3	78	3	58	1	1	3	3	3	3	3	3	1.4	1.72	1.72	1.72	1.72	
13	1CE20CS013	ANANYA BHAGAVAN	72	3	86	3	85	3	78	3	78	3	61	2	2	2	2	3	3	3	3	2.16	2.16	2.36	2.36	2.36	
14	1CE20CS014	ANURADHA SHARMA	72	3	85	3	79	3	78	3	78	3	56	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72	
15	1CE20CS016	ARAVIND V	72	3	86	3	83	3	78	3	78	3	65	2	2	3	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36	
16	1CE20CS017	ASTHA	72	3	86	3	85	3	78	3	78	3	58	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72	
17	1CE20CS018	B DHANALAKSHMI BAI	72	3	86	3	85	3	78	3	78	3	48	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72	
18	1CE20CS019	BENITTA HATHSIYAL X	72	3	86	3	85	3	78	3	78	3	88	3	3	3	3	3	3	3	3	3	3	3	3	3	
19	1CE20CS021	BHARGAVI N PRAKASH	62	2	82	3	85	3	78	3	78	3	48	1	1	3	3	3	3	3	3	1.56	1.72	1.72	1.72	1.72	
20	1CE20CS024	DANIYA KHANUM	72	3	86	3	85	3	78	3	78	3	63	2	2	3	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36	
21	1CE20CS025	DEEKSHA R GOWDA	72	3	86	3	85	3	78	3	78	3	63	2	2	3	3	3	3	3	1	2.36	2.36	2.36	2.36	1.96	
22	1CE20CS026	DEEPAK KUMAR R	69	2	86	3	85	3	78	3	78	3	70	3	3	3	3	3	3	3	3	2.84	3	3	3	3	
23	1CE20CS027	DEEPASHREE N	38	1	72	3	85	3	78	3	78	3	58	1	1	3	3	3	3	3	3	1.4	1.72	1.72	1.72	1.72	
24	1CE20CS028	DEEPTHI S	72	3	86	3	85	3	78	3	78	3	76	3	3	3	3	3	3	3	3	3	3	3	3	3	
25	1CE20CS029	DHANUSH KUMAR D	38	1	70	3	76	3	68	2	68	2	56	1	1	3	3	3	3	2	2	1.4	1.72	1.72	1.56	1.36	
26	1CE20CS030	DIVYASHREE S	72	3	86	3	85	3	78	3	78	3	90	3	3	3	3	3	3	3	3	3	3	3	3	3	
27	1CE20CS031	DR MOHAN KUMAR	52	1	72	3	63	2	78	3	78	3	53	1	1	3	3	3	3	3	3	1.4	1.72	1.56	1.72	1.72	
28	1CE20CS033	GANESH	29	1	64	2	73	3	56	1	56	1	42	1	1	3	3	3	3	3	3	1.4	1.56	1.72	1.4	1.4	
29	1CE20CS034	GIRIJA NARAYAN HEGDE	66	2	85	3	85	3	78	3	78	3	48	1	1	3	3	3	3	3	3	1.56	1.72	1.72	1.72	1.72	
30	1CE20CS035	GOWTHAM S V	56	1	80	3	85	3	78	3	78	3	53	1	1	3	3	3	3	3	3	1.4	1.72	1.72	1.72	1.72	
31	1CE20CS036	HALEEMA SULTANA	72	3	84	3	73	3	62	2	62	2	40	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.56	1.56	
32	1CE20CS037	IRAM SHAIKH	72	3	86	3	85	3	78	3	78	3	61	2	2	3	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36	
33	1CE20CS038	JUDAH A	44	1	69	2	59	1	62	2	62	2	35	1	1	3	3	3	3	3	3	1.4	1.56	1.4	1.56	1.56	
34	1CE20CS039	JYOTHI JR SAHANI	64	2	83	3	85	3	78	3	78	3	65	2	2	3	2	3	3	3	3	2.2	2.16	2.36	1.96	2.36	
35	1CE20CS040	K G DHANYA JOGI	38	1	70	3	73	3	62	2	62	2	58	1	1	3	3	3	3	3	3	1.4	1.72	1.72	1.56	1.56	



Scheme: 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-2024												
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment									
			CO1		CO2		CO3		CO4		CO5					Course end survey									
			100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level	Univ. Mark	Equiva lent Grade	Attain ment level	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3
S.No	USN No.	Name	IAT1		IAT1		IAT 2		IAT3		IAT3					3	3	3	3	3					
81	1CE20CS086	VISHWA V	64	2	81	3	73	3	78	3	78	3	61	2	2	3	3	3	3	3	2.2	2.36	2.36	2.36	2.36
82	1CE20CS087	VIVEK GAUTAM	72	3	86	3	85	3	78	3	78	3	65	2	2	3	2	2	2	3	2.36	2.16	2.16	2.16	2.36
83	1CE20CS088	YARUB BABA	29	1	58	1	52	1	0	0	0	0	0	0	0	1	2	2	2	3	0.36	0.56	0.56	0.4	0.6
84	1CE20CS089	YASHASHREE R	69	2	86	3	85	3	56	1	56	1	58	1	1	3	3	3	3	3	1.56	1.72	1.72	1.4	1.4
85	1CE20CS090	YASHASWINI R P	72	3	86	3	85	3	78	3	78	3	60	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36
86	1CE20CS091	SUJAY V	33	1	0	0	0	0	48	1	48	1	20	1	1	1	2	2	2	3	1	1.04	1.04	1.2	1.4
87	1CE19CS036	IMRAN KHAN N	43	1	70	3	72	3	78	3	78	3	45	1	1	3	3	3	3	3	1.4	1.72	1.72	1.72	1.72
<b>Total Strength</b>			<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>		<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>	<b>87</b>
<b>Average Attainment</b>				<b>1.97</b>		<b>2.54</b>		<b>2.41</b>		<b>2.37</b>		<b>2.37</b>			<b>1.47</b>	<b>2.84</b>	<b>2.82</b>	<b>2.87</b>	<b>2.82</b>	<b>2.92</b>	<b>1.82</b>	<b>1.91</b>	<b>1.90</b>	<b>1.88</b>	<b>1.90</b>
Target : Class Average Attainment = 70% (2.1)			-	N	-	Y	-	Y	-	Y	-	Y	-	-	N	Y	Y	Y	Y	Y	N	N	N	N	N

Course Outcome	Attainment Level	Level 1: 50-59% of students scored more than set target	
	Internal + External + Course End Assessment	Level 2: 60-69% of students scored more than set target	
CO1	1.90	Level 3: 70% and above of students scored more than set target	
CO2	2.08	Tools	
CO3	2.05	Weightage	
CO4	2.03	Overall Weightage in Cos	
CO5	2.05	Direct	Internal
Average	2.02	Assess	University
		ment	Course End Survey
			60
			40
			80%
			20%

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.90	0.63	0.63	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.90	0.63	1.90
CO2	1.39	0.69	2.08	2.08	1.39	1.39	0.00	0.00	1.39	0.69	0.00	2.08	2.08	1.39	0.69
CO3	1.37	0.68	1.37	0.68	0.68	1.37	0.00	0.00	1.37	1.37	0.00	1.37	2.05	2.05	0.68
CO4	2.03	0.68	0.68	1.35	0.68	0.68	0.00	0.00	0.68	2.03	0.00	1.35	2.03	0.68	0.68
CO5	0.68	0.68	0.68	0.68	0.68	0.68	0.00	0.00	0.68	0.68	2.05	2.05	2.05	0.68	2.05
Average CO	1.35	1.35	1.35	1.35	0.67	0.00	0.00	0.00	0.67	1.35	1.35	1.35	1.35	1.35	1.35
Expected level	2.00	2.00	2.00	2.00	1.00	0.00	0.00	0.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00
Target : Class Average Attainment = 70% (2.1)	N	N	N	N	N	Y	Y	Y	N	N	N	N	N	N	N

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	1	0	0	0	0	0	0	0	2	3	1	3
CO2	2	1	3	3	2	2	0	0	2	1	0	3	3	2	1
CO3	2	1	2	1	1	2	0	0	2	2	0	2	3	3	1
CO4	3	1	1	2	1	1	0	0	1	3	0	2	3	1	1
CO5	1	1	1	1	1	1	0	0	1	1	3	3	3	1	3
Average CO	2	2	2	2	1	0	0	0	1	2	2	2	2	2	2

Class Instructor

BS.

HoD

*[Signature]*

PRINCIPAL  
PRINCIPAL CITY ENGINEERING COLLEGE  
Kanakapura Main Road, BANGALORE - 560 061

*[Signature]*



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 Next to Gokulam Apartment, Bangalore - 560 062.



Year / Semester: 4th /8th

Course Code/Course Name:18CS822/ Storage Area Network

Nmae of the Staff: Mr.John Peter

Scheme: 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-2024												
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment									
			CO1		CO2		CO3		CO4		CO5		Univ. Mark	Equiva lent Grade	Attain ment level	Course end survey									
			100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level				CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
S.No	USN No.	Name	IAT1		IAT1		IAT 2		IAT3		IAT3					3	3	3	3	3					
1	ICE20CS001	ABHAY	74	3	83	3	59	1	92	3	92	3	53	1	1	3	3	3	3	3	1.72	1.72	1.4	1.72	1.72
2	ICE20CS002	ABHINAV KUMAR SINGH	86	3	97	3	100	3	100	3	100	3	43	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
3	ICE20CS003	ABHISHEK VATS	81	3	91	3	87	3	88	3	88	3	55	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
4	ICE20CS004	ADARSH MISHRA S	60	2	84	3	93	3	78	3	78	3	60	2	2	2	2	2	3	3	2	2.16	2.16	2.36	2.36
5	ICE20CS005	ADITHY B	83	3	96	3	96	3	100	3	100	3	55	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
6	ICE20CS006	AFNAN AHMED	72	3	90	3	97	3	94	3	94	3	43	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
7	ICE20CS007	AISHWARYA	87	3	98	3	97	3	100	3	100	3	75	3	3	3	3	3	3	3	1.72	1.72	1.72	1.52	1.52
8	ICE20CS008	AJAY ANUPAM	81	3	90	3	82	3	68	2	68	2	48	1	1	3	3	2	2	3	1.72	1.72	1.52	1.36	1.56
9	ICE20CS009	AMIR ANJUM	55	1	80	3	86	3	60	2	60	2	50	1	1	3	3	3	3	3	1.4	1.72	1.72	1.56	1.56
10	ICE20CS010	AMULYA Y R	73	3	91	3	97	3	100	3	100	3	63	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36
11	ICE20CS011	ANAND M	77	3	90	3	87	3	88	3	88	3	58	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
12	ICE20CS012	ANANYA B C	77	3	92	3	94	3	100	3	100	3	58	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
13	ICE20CS013	ANANYA BHAGAVAN	91	3	100	3	100	3	100	3	100	3	61	2	2	2	2	3	3	3	2.16	2.16	2.36	2.36	2.36
14	ICE20CS014	ANURADHA SHARMA	81	3	93	3	94	3	96	3	96	3	56	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
15	ICE20CS016	ARAVIND V	91	3	99	3	97	3	100	3	100	3	65	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36
16	ICE20CS017	ASTHA	82	3	96	3	100	3	100	3	100	3	58	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
17	ICE20CS018	B DHANALAKSHMI BAI	87	3	99	3	100	3	100	3	100	3	48	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
18	ICE20CS019	BENITTA HATHSIYAL X	87	3	99	3	100	3	100	3	100	3	88	3	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
19	ICE20CS021	BHARGAV N PRAKASH	82	3	95	3	94	3	100	3	100	3	48	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
20	ICE20CS024	DANIYA KHANUM	82	3	95	3	97	3	100	3	100	3	63	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36
21	ICE20CS025	DEEKSHA R GOWDA	91	3	99	3	97	3	100	3	100	3	63	2	2	3	3	3	3	1	2.36	2.36	2.36	2.36	1.96
22	ICE20CS026	DEEPAK KUMAR R	91	3	99	3	99	3	98	3	98	3	70	3	3	3	3	3	3	3	3	3	3	3	3
23	ICE20CS027	DEEPASHREE N	60	2	82	3	86	3	100	3	100	3	58	1	1	3	3	3	3	3	1.56	1.72	1.72	1.72	1.72
24	ICE20CS028	DEEPTHI S	91	3	100	3	100	3	100	3	100	3	76	3	3	3	3	3	3	3	3	3	3	3	3
25	ICE20CS029	DHANUSH KUMAR D	62	2	82	3	86	3	100	3	100	3	56	1	1	3	3	3	3	2	1.56	1.72	1.72	1.72	1.52
26	ICE20CS030	DIVYASHREE S	91	3	100	3	100	3	100	3	100	3	90	3	3	3	3	3	1	3	3	3	2.6	3	
27	ICE20CS031	DR MOHAN KUMAR	69	2	90	3	100	3	100	3	100	3	53	1	1	3	3	3	3	3	1.56	1.72	1.72	1.72	1.72
28	ICE20CS033	GANESH	56	1	81	3	86	3	100	3	100	3	42	1	1	3	3	3	3	3	1.4	1.72	1.72	1.72	1.72
29	ICE20CS034	GIRIJA NARAYAN HEGDE	91	3	95	3	79	3	80	3	80	3	48	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
30	ICE20CS035	GOWTHAM S V	59	1	80	3	80	3	100	3	100	3	53	1	1	3	3	3	3	3	1.4	1.72	1.72	1.72	1.72
31	ICE20CS036	HALEEMA SULTANA	77	3	92	3	96	3	100	3	100	3	40	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
32	ICE20CS037	IRAM SHAIKH	91	3	100	3	100	3	100	3	100	3	61	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36
33	ICE20CS038	JUDAH A	77	3	91	3	90	3	96	3	96	3	35	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
34	ICE20CS039	JYOTHI J R SAHANI	81	3	93	3	94	3	96	3	96	3	65	2	2	3	2	3	1	3	2.36	2.16	2.36	1.96	2.36
35	ICE20CS040	K G DHANYA JOGI	82	3	95	3	97	3	100	3	100	3	58	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72



Scheme: 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-2024													
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment					Course end survey					
			CO1		CO2		CO3		CO4		CO5					CO1	CO2	CO3	CO4	CO5						
			100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level	100	Attain ment level	Univ. Mark	Equiva lent Grade	Attain ment level	3	3	3	3	3	CO1	CO2	CO3	CO4
S.No	USN No.	Name	IAT1	IAT1 IAT2	IAT1 IAT2	IAT2	IAT2	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3	IAT3
80	ICE20CS084	VAISHNAVI K	82	3	95	3	94	3	98	3	98	3	66	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36	
81	ICE20CS086	VISHWA V	69	2	90	3	99	3	90	3	90	3	61	2	2	3	3	3	3	3	2.2	2.36	2.36	2.36	2.36	
82	ICE20CS087	VIVEK GAUTAM	73	3	89	3	89	3	68	2	68	2	65	2	2	3	2	2	2	3	2.36	2.16	2.16	2	2.2	
83	ICE20CS088	YARUB BABA	47	1	71	3	64	2	52	1	52	1	0	0	0	1	2	2	2	3	0.36	0.88	0.72	0.56	0.76	
84	ICE20CS089	YASHASHREE R	64	2	84	3	86	3	94	3	94	3	58	1	1	3	3	3	3	3	1.56	1.72	1.72	1.72	1.72	
85	ICE20CS090	YASHASWINI R P	91	3	99	3	97	3	100	3	100	3	60	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36	
86	ICE20CS091	SUJAY V	35	1	73	3	97	3	90	3	90	3	20	1	1	1	2	2	2	3	1	1.52	1.52	1.52	1.52	1.72
87	ICE19CS036	JMRAN KHAN N	69	2	89	3	96	3	50	1	50	1	45	1	1	3	3	3	3	3	1.56	1.72	1.72	1.4	1.4	
Total Strength			87	87	87	87	87	87	87	87	87	87		87	87	87	87	87	87	87	87	87	87	87	87	87
Average Attainment				2.40		2.97		2.92		2.78		2.78				1.47	2.84	2.82	2.87	2.82	2.92	1.89	1.98	1.98	1.95	1.97
Target : Class Average Attainment = 70% (2.1)			-	Y	-	Y	-	Y	-	Y	-	Y	-	-	N	Y	Y	Y	Y	Y	N	N	N	N	N	

Course Outcome	Attainment Level	Level 1:	50-59% of students scored more than set target						
	Internal + External + Course End Assessment	Level 2:	60-69% of students scored more than set target						
CO1	2.04	Level 3:	70% and above of students scored more than set target						
CO2	2.22	Tools	<table border="1"> <thead> <tr> <th>Weightage</th> <th>Overall Weightage in Cos</th> </tr> </thead> <tbody> <tr><td>60</td><td rowspan="3">80%</td></tr> <tr><td>40</td></tr> <tr><td>20%</td></tr> </tbody> </table>	Weightage	Overall Weightage in Cos	60	80%	40	20%
Weightage	Overall Weightage in Cos								
60	80%								
40									
20%									
CO3	2.22								
CO4	2.16								
CO5	2.18								
Average	2.16	Direct Assessment							

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0.68	0.68	0.68	0.68	1.36	0.68	0.00	0.00	0.68	0.00	0.00	2.04	0.68	0.68	2.04
CO2	0.74	2.22	0.74	0.74	1.48	0.00	0.00	0.00	0.74	0.74	0.00	1.48	0.74	1.48	1.48
CO3	0.74	1.48	0.74	0.74	1.48	0.00	0.00	0.00	0.00	0.74	0.74	1.48	0.74	0.74	1.48
CO4	0.72	2.16	0.00	0.72	0.72	0.00	0.00	0.00	0.00	2.16	2.16	1.44	0.72	0.72	0.72
CO5	0.73	1.45	0.00	0.73	0.73	0.00	0.00	0.00	0.00	0.00	0.00	2.18	0.73	1.45	2.18
Average CO	1.44	1.44	1.44	1.44	0.72	0.00	0.00	0.00	0.72	1.44	1.44	1.44	1.44	1.44	1.44
Expected level	2.00	2.00	2.00	2.00	1.00	0.00	0.00	0.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00
Target : Class Average Attainment = 70% (2.1)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	1	0	0	1	0	0	3	1	1	3
CO2	1	3	1	1	2	0	0	0	1	1	0	2	1	2	2
CO3	1	2	1	1	2	0	0	0	0	1	1	2	1	1	2
CO4	1	3	0	1	1	0	0	0	0	3	3	2	1	1	1
CO5	1	2	0	1	1	0	0	0	0	0	0	3	1	2	3
Average CO	2	2	2	2	1	0	0	0	1	2	2	2	2	2	2

*S. Kaulan*

PRINCIPAL

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Kanakapura Main Road, BANGALORE - 560 061

Class Instructor  
*K. Patel*

HoD  
*[Signature]*



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 Doddakallasandra, Off Kanakapura Main Road,  
 Next to Gokulam Apartment, Bangalore - 560 062.



Year / Semester: IV / VIII

Course Code/Course Name: 18EC81 - Wireless and Cellular Communication  
 Name of the Staff: Dr. Shalini Prasad

Scheme : 2018 - VTU , Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-24												
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment									
			CO1		CO2		CO3		CO4		CO5		Univ.M ark	Equival ent Grade	Attain ment level	Course end survey									
S.No	USN No.	Name	100 IAT1	Attainment level	100 IAT1 IAT2	Attainment level	100 IAT 2	Attainment level	100 IAT3	Attainment level	100 IAT3	Attainment level				CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5
1	1CE20EC001	Bhamu Chandan	64	2	64	2	82	3	86	3	86	3	64	2	2	3	3	3	3	3	2.2	2.2	2.36	2.36	2.36
2	1CE20EC002	Keerthi	74	3	74	3	84	3	94	3	94	3	56	1	1	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
3	1CE20EC003	Sukruth S.R	42	1	42	1	42	1	54	1	54	1	26	1	1	3	3	3	3	3	1.4	1.4	1.4	1.4	1.4
4	1CE20EC400	Md Touheed	40	1	40	1	42	1	52	1	52	1	35	1	1	3	3	3	3	3	1.4	1.4	1.4	1.4	1.4
5	1CE21EC401	Raghu T.H	80	3	80	3	86	3	90	3	90	3	72	3	3	3	3	3	3	3	1.4	1.4	1.4	1.4	1.4
Total Strength			5	5	5	5	5	5	5	5	5	5	72	3	3	3	3	3	3	3	1	1	1.2	1.4	1.4
Average Attainment			2.00		2.00		2.20		2.20		2.20		1.60	2.60	2.60	2.80	3.00	3.00	1.86	1.86	1.94	1.98	1.98	1.98	
Target : Class Average Attainment = 70% (2.1)			-	N	-	N	-	Y	-	Y	-	Y	-	-	N	Y	Y	Y	Y	Y	N	N	N	N	N
Course Outcome	Attainment Level		Level 1: 50-59% of students scored more than set target																						
	Internal + External + Course End Assessment		Level 2: 60-69% of students scored more than set target																						
CO1		1.93	Level 3: 70% and above of students scored more than set target																						
CO2		1.93																							
CO3		2.03																							
CO4		2.07																							
CO5		2.07																							
Average		2.01																							
Tools		Weightage		Overall Weightage in Cos																					
Direct Assessment		Internal	60																						
University		40	80%																						
Course End Survey		20%																							

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0.64	0.00	0.64	0.00	1.29	0.64	0.00	0.64	0.00	1.29	0.64	1.93	0.64	0.64	0.00
CO2	0.00	1.93	0.00	0.00	1.29	0.00	0.00	0.00	0.00	0.64	1.29	0.64	0.64	0.64	0.00
CO3	0.68	0.68	1.35	0.68	0.68	0.68	0.68	0.68	0.68	0.00	0.68	0.68	0.68	0.68	0.00
CO4	0.69	0.69	0.69	1.38	0.69	2.07	0.00	1.38	0.69	1.38	0.69	0.69	0.69	0.69	0.00
CO5	0.69	0.69	1.38	1.38	0.69	0.69	0.00	0.69	0.69	1.38	0.69	0.69	0.69	0.00	0.00
Average CO	0.54	0.80	0.80	0.67	0.94	0.80	0.13	0.67	0.69	0.69	0.69	2.07	1.38	1.38	0.00
Expected level	0.80	1.20	1.20	1.00	1.40	1.20	0.20	1.00	0.60	1.00	1.10	1.80	1.20	1.00	0.00
Target : Class Average Attainment = 70% (2.1)	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	0	1	0	2	1	0	1	0	2	1	3	1	1	0
CO2	0	3	0	0	2	0	0	0	0	1	2	1	1	1	0
CO3	1	1	2	1	1	1	1	1	1	0	1	1	1	1	0
CO4	1	1	1	2	1	3	0	2	1	2	1	1	1	1	0
CO5	1	1	2	2	1	1	0	1	1	1	1	1	1	0	0
Average CO	0.8	1.2	1.2	1	1.4	1.2	0.2	0.6	1	1	1	3	2	2	0

Class Instructor  
*B. Prasad*

*G. S. Manjunath*  
 HoD

*S. Karan*  
 PRINCIPAL





Year / Semester: IV / VIII

Course Code/Course Name: 18EC821 - Network Security  
 Name of the Staff: Mrs.Shylaja

Scheme : 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-24												
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment									
			CO1		CO2		CO3		CO4		CO5		Univ.Mark	Equivalent Grade	Attainment level	Course end survey									
			100	Attainment level	100	Attainment level	100	Attainment level	100	Attainment level	100	Attainment level				CO1	CO2	CO3	CO4	CO5					
S.No	USN No.	Name	IAT1		IAT1		LAT 2		IAT3		IAT3					3	3	3	3	3	CO1	CO2	CO3	CO4	CO5
1	1CE20EC001	Bhanu Chandan	88	3	88	3	85	3	95	3	95	3	72	3	3	3	3	3	3	3	3	3	3	3	3
2	1CE20EC002	Keerthi	90	3	90	3	85	3	95	3	95	3	62	2	2	3	3	3	3	3	3	3	3	3	3
3	1CE20EC003	Sukruth S.R	85	3	85	3	60	2	63	2	63	2	49	1	1	3	3	3	3	3	3	3	3	3	3
4	1CE20EC400	Md Touheed	90	3	90	3	70	3	70	3	70	3	53	1	1	1	1	1	2	3	3	3	3	3	3
5	1CE21EC401	Raghu TH	88	3	88	3	78	3	90	3	90	3	75	3	3	3	3	3	3	3	3	3	3	3	3
<b>Total Strength</b>			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
<b>Average Attainment</b>			3.00		3.00		2.80		2.80		2.80		2.00		2.00	2.60	2.60	2.80	3.00	3.00	2.28	2.28	2.29	2.33	2.33
Target : Class Average Attainment = 70% (2.1)			-	Y	-	Y	-	Y	-	Y	-	Y	-	-	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Course Outcome	Attainment Level	Level 1:
	Internal + External + Course End Assessment	Level 2:
CO1	2.44	Level 3:
CO2	2.44	70% and above of students scored more than set target
CO3	2.42	
CO4	2.46	
CO5	2.46	
Average	2.44	

  

Tools	Weightage		Overall Weightage in Cos	
	Direct Assessment	Internal University		60
	Course End Survey	University		40
		Course End Survey	20%	

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0.81	0.00	0.81	0.00	1.63	0.81	0.00	0.81	0.00	1.63	0.81	2.44	0.81	0.81	0.00
CO2	0.00	2.44	0.00	0.00	1.63	0.00	0.00	0.00	0.00	0.81	1.63	0.81	0.81	0.81	0.00
CO3	0.81	0.81	1.61	0.81	0.81	0.81	0.81	0.81	0.81	0.00	0.81	0.81	0.81	0.81	0.00
CO4	0.82	0.82	0.82	1.64	0.82	2.46	0.00	1.64	0.82	1.64	0.82	0.82	0.82	0.00	0.00
CO5	0.82	0.82	1.64	1.64	0.82	0.82	0.00	0.82	0.82	0.82	0.82	2.46	1.64	1.64	0.00
Average CO	0.81	1.22	1.22	1.30	1.14	1.22	0.16	1.02	0.49	1.22	0.98	1.46	0.98	1.02	0.00
Expected level	1.00	1.50	1.50	1.60	1.40	1.50	0.20	1.25	0.60	1.50	1.20	1.80	1.20	1.25	0.00
Target : Class Average Attainment = 70% (2.1)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	0	1	0	2	1	0	1	0	2	1	3	1	1	0
CO2	0	3	0	0	2	0	0	0	0	1	2	1	1	1	0
CO3	1	1	2	1	1	1	1	1	1	0	1	1	1	1	0
CO4	1	1	1	2	1	3	0	2	1	2	1	1	1	1	0
CO5	1	1	2	2	1	1	0	1	1	1	1	3	2	2	0
Average CO	1	1.5	1.5	1.6	1.4	1.5	0.2	1.25	0.6	1.5	1.2	1.8	1.2	1.25	0

Class Instructor

*S.S.K*

*C. S. Malleshwar*  
HOD

*S. Karan*  
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Year / Semester: IV / VIII

Course Code/Course Name: 18CS81 - Internet of Things  
 Name of the Staff: Dr.Sowmya Naik P T

Scheme : 2018 - VTU , Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-24															
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment												
			CO1		CO2		CO3		CO4		CO5		Course end survey															
			100	Attainment level	100	Attainment level	100	Attainment level	100	Attainment level	100	Attainment level	Univ.M	Equival	Attain	CO1	CO2	CO3	CO4	CO5								
S.No	USN No.	Name	IAT1	Attainment level	IAT1	Attainment level	IAT 2	Attainment level	IAT2	Attainment level	IAT3	Attainment level	IAT3	Attainment level	Univ.M	Equival	Attain	3	3	3	3	3	CO1	CO2	CO3	CO4	CO5	
1	1CE20IS001	Aayusha Kumari	90	3	90	3	90	3	90	3	100	3	78	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
2	1CE20IS002	Amaha Rashminathi	97	3	97	3	100	3	100	3	100	3	81	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
3	1CE20IS003	Likith R J	37	1	37	1	0	0	0	0	40	1	53	1	1	3	3	3	3	3	3	1.4	1.4	1.24	1.24	1.4	1.4	
<b>Total Strength</b>			<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	
<b>Average Attainment</b>			<b>2.33</b>		<b>2.33</b>		<b>2.00</b>		<b>2.00</b>		<b>2.33</b>				<b>2.33</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.47</b>	<b>2.47</b>	<b>2.41</b>	<b>2.41</b>	<b>2.47</b>		
Target : Class Average Attainment = 70% (2.1)			-	Y	-	Y	-	N	-	N	-	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Course Outcome	Attainment Level		Level 1: 50-59% of student's scored more than set target																									
	Internal + External + Course End Assessment		Level 2: 60-69% of student's scored more than set target																									
		Level 3: 70% and above of students scored more than set target																										
CO1	2.47																											
CO2	2.47																											
CO3	2.36																											
CO4	2.36																											
CO5	2.47																											
Average	2.42																											
	Tools	Weightage		Overall Weightage in Cos																								
	Direct Assessment	Internal	60	80%																								
		University	40																									
		Course End Survey	20%																									

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2.47	0.82	0.82	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	2.47	0.82	2.47
CO2	1.64	0.82	2.47	2.47	1.64	1.64	0.00	0.00	1.64	0.82	0.00	2.47	2.47	1.64	0.82
CO3	1.57	0.79	1.57	1.57	0.79	1.57	0.00	0.00	1.57	1.57	0.00	1.57	2.36	2.36	0.79
CO4	2.36	0.79	0.79	0.79	0.79	0.79	0.00	0.00	0.79	2.36	0.00	1.57	2.36	0.79	0.79
CO5	0.82	0.82	0.82	0.82	0.82	0.82	0.00	0.00	0.82	0.82	2.47	2.47	2.47	0.82	2.47
Average CO	1.78	0.81	1.29	3.23	0.97	1.21	0.00	0.00	1.21	1.37	2.42	1.94	2.42	1.29	1.45
Expected level	2.20	1.00	1.60	4.00	1.20	1.50	0.00	0.00	1.50	1.70	3.00	2.40	3.00	1.60	1.80
Target : Class Average Attainment = 70% (2.1)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	1	1	1	0	0	0	0	0	0	0	2	3	1	3
CO2	2	1	3	3	2	2	0	0	2	1	0	3	3	2	1
CO3	2	1	2	2	1	2	0	0	2	2	0	2	3	3	1
CO4	3	1	1	1	1	1	0	0	1	3	0	2	3	1	1
CO5	1	1	1	1	1	1	0	0	1	1	3	3	3	1	3
Average CO	2.2	1	1.6	4	1.2	1.5	0	0	1.5	1.7	3	2.4	3	1.6	1.8

Class Instructor

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 PRINCIPAL



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Year / Semester: IV / VIII

Course Code/Course Name: 18CS822 - Storage Area Networks

Name of the Staff: Mr.V.John Peter

Scheme : 2018 - VTU , Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-24													
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment										
			CO1		CO2		CO3		CO4		CO5		Univ.M ark			Course end survey										
			100	Attainment level	100	Attainment level	100	Attainment level	100	Attainment level	100	Attainment level	Univ.M ark	Equival ent Grade	Attain ment level	CO1	CO2	CO3	CO4	CO5						
S.No	USN No.	Name	IAT1	Attainment level	IAT1	Attainment level	IAT 2	Attainment level	IAT2 IAT3	Attainment level	IAT3	Attainment level	Univ.M ark	Equival ent Grade	Attain ment level	3	3	3	3	3	CO1	CO2	CO3	CO4	CO5	
1	1CE20IS001	Aayusha Kumari	92	3	92	3	72	3	72	3	96	3	74	3	3	3	3	3	3	3	3	3	3	3	3	3
2	1CE20IS002	Amisha Rashminath	70	3	70	3	90	3	90	3	90	3	66	2	2	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36	
3	1CE20IS003	Laksh R J	100	3	100	3	60	2	60	2	62	2	61	2	2	3	3	3	3	3	2.36	2.36	2.2	2.2	2.2	
<b>Total Strength</b>			<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	
<b>Average Attainment</b>			<b>3.00</b>		<b>3.00</b>		<b>2.67</b>		<b>2.67</b>		<b>2.67</b>				<b>2.33</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>2.57</b>	<b>2.57</b>	<b>2.52</b>	<b>2.52</b>	<b>2.52</b>	
Target : Class Average Attainment = 70% (2.1)			-	Y	-	Y	-	Y	-	Y	-	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	

Course Outcome	Attainment Level	Level 1:	50-59% of students scored more than set target.
	Internal + External + Course End Assessment	Level 2:	60-69% of students scored more than set target.
CO1	2.68	Level 3:	70% and above of students scored more than set target.
CO2	2.68		
CO3	2.57		
CO4	2.57		
CO5	2.57		
Average	2.62		

  

Tools	Weightage		Overall Weightage in Cos
	Direct Assessment	Internal University	
	Course End Survey		20%

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0.89	0.89	0.89	0.89	1.79	0.89	0.00	0.00	0.00	0.00	0.00	2.68	0.89	0.89	2.68
CO2	0.89	2.68	0.89	0.89	1.79	0.00	0.00	0.00	0.00	0.89	0.00	1.79	0.89	1.79	1.79
CO3	0.86	1.72	0.86	0.86	1.72	0.00	0.00	0.00	0.00	0.86	0.86	1.72	0.86	0.86	1.72
CO4	0.86	2.57	0.00	0.86	0.86	0.00	0.00	0.00	0.00	2.57	2.57	1.72	0.86	0.86	0.86
CO5	0.86	1.72	0.00	0.86	0.86	0.00	0.00	0.00	0.00	0.00	0.00	2.57	0.86	1.72	2.57
Average CO	0.87	1.92	0.87	0.87	1.40	0.87	0.00	0.00	0.00	1.40	1.74	2.09	0.87	1.22	1.92
Expected level	1.00	2.20	1.00	1.00	1.60	1.00	0.00	0.00	0.00	1.60	2.00	2.40	1.00	1.40	2.20
Target : Class Average Attainment = 70% (2.1)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	1	1	2	1	0	0	0	0	0	3	1	1	3
CO2	1	3	1	1	2	0	0	0	0	1	0	2	1	2	2
CO3	1	2	1	1	2	0	0	0	0	1	1	2	1	1	2
CO4	1	3	0	1	1	0	0	0	0	3	3	2	1	1	1
CO5	1	2	0	1	1	0	0	0	0	0	0	3	1	2	3
Average CO	1	2.2	1	1	1.6	1	0	0	0	1.6	2	2.4	1	1.4	2.2

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Class Instructor

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HOD

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PRINCIPAL



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Year / Semester:IV/VIII

Course Code/Course Name:18ME81/ENERGY ENGINEERING

Nmae of the Staff:ANIL KUMAR R

Regulation: 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-2024													
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment										
			CO1		CO2		CO3		CO4		CO5		Univ. Mark	Equiva lent Grade	Attain ment level	Course end survey										
S.No	USN No.	Name	100 IAT1	Attain ment level	100 IAT1 IAT2	Attain ment level	100 IAT 2	Attain ment level	100 IAT3	Attain ment level	100 IAT3	Attain ment level				3	3	3	3	3	CO1	CO2	CO3	CO4	CO5	
1	ICE20ME001	SUHAS B	86.66	3	87.3	3	87	3	87.5	3	90	3	66	2	2	3	3	3	3	3	3	2.36	2.36	2.36	2.36	2.36
2	ICE20ME002	ABHILASH A SUVAN	65	2	62.5	2	68	2	67.5	2	62	2	47	1	1	3	3	3	3	3	3	1.56	1.56	1.56	1.56	1.56
<b>Total Strength</b>			<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	
<b>Average Attainment</b>				<b>2.50</b>		<b>2.50</b>		<b>2.50</b>		<b>2.50</b>		<b>2.50</b>				<b>1.50</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>1.96</b>	<b>1.96</b>	<b>1.96</b>	<b>1.96</b>	<b>1.96</b>
<b>Target : Class Average Attainment = 70% (2.1)</b>			-	Y	-	Y	-	Y	-	Y	-	Y	-	-	N	Y	Y	Y	Y	Y	Y	N	N	N	N	N

Course Outcome	Attainment Level	Level 1:
		Internal + External + Course End Assessment
CO1	2.12	Level 3:
CO2	2.12	
CO3	2.12	
CO4	2.12	
CO5	2.12	
<b>Average</b>	2.12	

  

Tools	Weightage	Overall Weightage in Cos
Direct Assessment	Internal University	60
	Course End Survey	40
		80%
		20%

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	0.71	0.71	0.00	0.00	0.00	0.71	1.41	0.00	0.00	0.00	0.00	1.41	0.71	0.00	1.41
CO2	2.12	1.41	1.41	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.71	0.71	0.00	1.41
CO3	1.41	1.41	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	1.41	0.71	0.00	1.41
CO4	1.41	0.71	0.00	0.00	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.00	1.41
CO5	1.41	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.71	0.00	1.41
<b>Average CO</b>	1.41	1.13	1.41	0.00	0.00	1.20	1.41	0.00	0.00	0.00	0.00	0.99	0.71	0.00	1.41
<b>Expected level</b>	2.00	1.60	2.00	0.00	0.00	1.70	2.00	0.00	0.00	0.00	0.00	1.40	1.00	0.00	2.00
<b>Target : Class Average Attainment = 70%</b>	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	1	0	0	0	1	2	0	0	0	0	2	1	0	2
CO2	3	2	2	0	0	0	2	0	0	0	0	1	1	0	2
CO3	2	2	0	0	0	2	0	0	0	0	0	2	1	0	2
CO4	2	1	0	0	0	2	0	0	0	0	0	1	1	0	2
CO5	2	1	0	0	0	0	0	0	0	0	0	1	1	0	2
<b>Average CO</b>	2	1.6	2	0	0	1.7	2	0	0	0	0	1.4	1	0	2

Class Instructor

*Anil R*

*Skandan*  
HOD

*Skandan*  
PRINCIPAL



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Year / Semester:IV/VIII

Course Code/Course Name:18ME82/TRIBOLOGY

Nmae of the Staff:Dr.MD MATHENULLA SHARIFF

Regulation: 2018 - VTU, Belgavi			BATCH: 2020-2024										ACADEMIC YEAR: 2023-2024													
Course outcomes/Program outcomes			Internal Assessment										Ext. Assessment			Indirect Assessment										
			CO1		CO2		CO3		CO4		CO5		Univ. Mark	Equiva lent Grade	Attain ment level	Course end survey										
S.No	USN No.	Name	100 IAT1	Attain ment level	100 IAT1 IAT2	Attain ment level	100 IAT 2	Attain ment level	100 IAT3	Attain ment level	100 IAT3	Attain ment level				3	3	3	3	3	CO1	CO2	CO3	CO4	CO5	
1	ICE20ME001	SUHAS B	87.5	3	86.25	3	85	3	88.75	3	80	3	57	1	1	3	3	3	3	3	3	1.72	1.72	1.72	1.72	1.72
2	ICE20ME002	ABHILASH A SUVAN	62.5	2	70	3	61	2	60	2	67.5	2	33	1	1	3	3	3	3	3	3	1.56	1.72	1.56	1.56	1.56
<b>Total Strength</b>			<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	
<b>Average Attainment</b>				<b>2.50</b>		<b>3.00</b>		<b>2.50</b>		<b>2.50</b>		<b>2.50</b>				<b>1.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>3.00</b>	<b>1.64</b>	<b>1.72</b>	<b>1.64</b>	<b>1.64</b>	<b>1.64</b>
<b>Target : Class Average Attainment = 70% (2.1)</b>			-	Y	-	Y	-	Y	-	Y	-	Y	-	-	N	Y	Y	Y	Y	Y	Y	N	N	N	N	N

Course Outcome	Attainment Level	Level 1: 50-59% of students scored more than set target	
	Internal + External + Course End Assessment	Level 2: 60-69% of students scored more than set target	
CO1	1.88	Level 3: 70% and above of students scored more than set target	
CO2	2.04		
CO3	1.88		
CO4	1.88		
CO5	1.88		
<b>Average</b>	<b>1.91</b>	<b>Direct Assessment</b>	<b>Overall Weightage in Cos</b>
		<b>Internal</b>	<b>80%</b>
		<b>University</b>	<b>40%</b>
		<b>Course End Survey</b>	<b>20%</b>

Set attainment level : 70%

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1.88	0.00	0.00	0.00	0.00	0.63	0.00	0.63	0.00	1.25	0.00	1.25	0.63	0.00	1.25
CO2	2.04	0.68	0.68	0.00	0.00	0.00	0.00	0.68	0.00	1.36	0.00	1.36	0.68	0.68	0.68
CO3	1.88	1.25	0.63	0.00	0.00	0.00	0.00	0.63	1.25	0.63	0.00	0.63	1.25	0.63	0.63
CO4	1.88	1.25	0.63	0.00	0.00	0.00	0.00	0.63	1.25	0.63	0.00	0.63	1.25	0.00	0.63
CO5	1.88	0.63	0.63	0.00	0.00	0.63	0.00	0.63	0.00	0.63	0.00	0.63	1.25	0.63	0.63
<b>Average CO</b>	<b>1.91</b>	<b>0.96</b>	<b>1.27</b>	<b>0.00</b>	<b>0.00</b>	<b>0.64</b>	<b>0.00</b>	<b>0.64</b>	<b>1.27</b>	<b>0.89</b>	<b>0.00</b>	<b>0.89</b>	<b>1.02</b>	<b>0.64</b>	<b>0.89</b>
<b>Expected level</b>	<b>3.00</b>	<b>1.50</b>	<b>2.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.00</b>	<b>0.00</b>	<b>1.00</b>	<b>2.00</b>	<b>1.40</b>	<b>0.00</b>	<b>1.40</b>	<b>1.60</b>	<b>1.00</b>	<b>1.40</b>
<b>Target : Class Average Attainment = 70%</b>	N	N	N	Y	Y	N	Y	N	N	N	Y	N	N	N	N

Mapping Details

Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	0	0	0	0	1	0	1	0	2	0	2	1	0	2
CO2	3	1	1	0	0	0	0	1	0	2	0	2	1	1	1
CO3	3	2	1	0	0	0	0	1	2	1	0	1	2	1	1
CO4	3	2	1	0	0	0	0	1	2	1	0	1	2	0	1
CO5	3	1	1	0	0	1	0	1	0	1	0	1	2	1	1
<b>Average CO</b>	<b>3</b>	<b>1.5</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>1.4</b>	<b>0</b>	<b>1.4</b>	<b>1.6</b>	<b>1</b>	<b>1.4</b>

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Class Instructor

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