



**DEPARTMENT OF CHEMISTRY**

**COURSE OUTCOME**

- CO1.** Use of free energy equilibria rationalize bulk properties and process of using thermodynamic consideration, electrochemical energy of systems.
- CO2.** Causes and effects of corrosion of metals and control of corrosion modification of surface properties of metals to develop resistance to corrosion, wear and tear impact etc by electroplating and electroless plating.
- CO3.** Production and consumption of energy for industrialisation of country and living standards of people. Electrochemical and concentration cells. Classical, modern batteries and fuel cells. Utilization of solar energy for different useful forms of energy.
- CO4.** Environmental pollution, waste management and water chemistry.
- CO5.** Different techniques of instrumental methods of analysis. Fundamental principle of Nanomaterials.

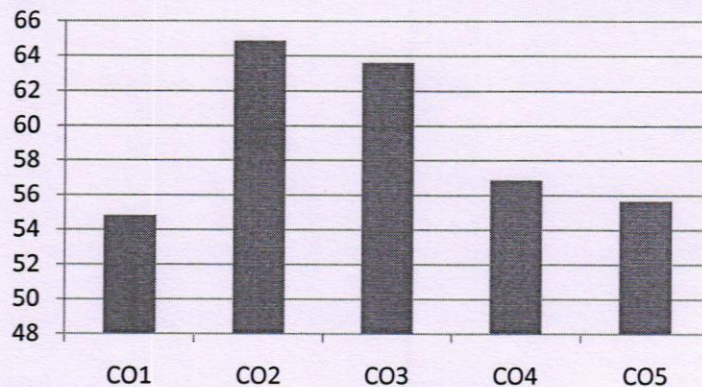
**PROGRAM OUTCOMES**

- PO1** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- PO2** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- PO3** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- PO4** Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- PO5** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- PO6** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- PO7** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO8** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- PO9** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- PO10** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- PO11** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- PO12** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU										
FACULTY NAME		Dr. CHANDRASEKHAR. N										
BRANCH		EC/EE/CV/ME			ACADEMIC YEAR				2020-21			
COURSE	B.E	SEMESTER			I	SECTION			C			
SUBJECT	ENGINEERING CHEMISTRY					SUBJECT CODE			18CHE12			
CO & PO MAPPING												
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	3	2	1	2	1	1	1	2	1	1	1	2
CO2	3	2	1	2	-	1	1	1	1	1	-	2
CO3	3	1	1	1	-	2	3	1	1	1	1	2
CO4	3	2	1	3	1	2	3	1	1	1	-	2
CO5	3	1	1	1	1	2	2	1	1	1	1	2
AVERAGE	3	1.6	1	1.8	1	1.6	2	1.2	1	1	1	2
OVERALL MAPPING OF SUBJECT												1.52

#### CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	54.82	1.64	1.09	0.55	1.09	0.55	0.55	0.55	1.09	0.55	0.55	0.55	1.09
CO2	64.87	1.95	1.3	0.65	1.3	-	0.65	0.65	0.65	0.65	0.65	-	1.3
CO3	63.62	1.91	0.64	0.64	0.64	-	1.3	1.91	0.64	0.64	0.64	0.64	1.3
CO4	56.87	1.71	1.14	0.57	1.71	0.57	1.14	1.71	0.57	0.57	0.57	-	1.14
CO5	55.66	1.67	0.56	0.56	0.56	0.56	1.11	1.11	0.56	0.56	0.56	0.56	1.11
AVERAGE	59.16	1.776	0.946	0.594	1.06	0.56	0.95	1.186	0.702	0.594	0.594	0.58	1.188
FINAL ATTAINMENT LEVEL													0.89



*Dr. Chandrasekhar N*  
FACULTY

*Dr. Chandrasekhar N*  
HOD

*Principals*  
PRINCIPAL  
PRINCIPAL  
SIET, TUMAKURU



**DEPARTMENT OF CHEMISTRY**

<b>SUBJECT</b>	<b>ENGINEERING CHEMISTRY</b>	<b>SUBJECT CODE</b>	<b>18CHE22</b>
----------------	------------------------------	---------------------	----------------

**COURSE OUTCOME**

- CO1.** Use of free energy equilibrium rationalize bulk properties and process of using thermodynamic consideration, electrochemical energy of systems.
- CO2.** Causes and effects of corrosion of metals and control of corrosion modification of surface properties of metals to develop resistance to corrosion, wear and tear impact etc by electroplating and electroless plating.
- CO3.** Production and consumption of energy for industrialisation of country and living standards of people. Electrochemical and concentration cells. Classical, modern batteries and fuel cells. Utilization of solar energy for different useful forms of energy.
- CO4.** Environmental pollution, waste management and water chemistry.
- CO5.** Different techniques of instrumental methods of analysis. Fundamental principle of Nanomaterials.

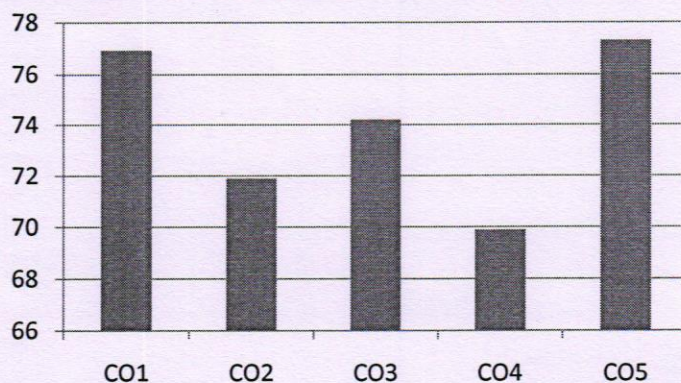
**PROGRAM OUTCOMES**

- P01** Engineering knowledge: An ability to apply knowledge of mathematics (including probability, statistics and discrete mathematics), science, and engineering for solving Engineering problems and Knowledge.
- P02** Problem analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- P03** Design / development of solutions: An ability to design solution for engineering problems and design system components or process to meet desired specifications and needs.
- P04** Conduct investigations of complex Problem: An ability to identify, formulate, comprehend, analyze, design synthesis of the information to solve complex engineering problems and provide valid conclusions.
- P05** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling to complex engineering activities.
- P06** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues.
- P07** Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- P08** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- P09** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- P010** Communication: Communicate effectively on complex engineering activities with the engineering community and with the society.
- P011** Project management and finance: An ability to use the modern engineering tools, techniques, skills and management principles to do work as a member and leader in a team, to manage projects in multidisciplinary environments.
- P012** Life-long learning: A recognition of the need for, and an ability to engage in, to resolve contemporary issues and acquire lifelong learning.

NAME OF THE COLLEGE		SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY, TUMAKURU											
FACULTY NAME		Dr. CHANDRASEKHAR. N											
BRANCH		CSE/ISE			ACADEMIC YEAR				2020-21				
COURSE	B.E	SEMESTER			II		SECTION			A & B			
SUBJECT	ENGINEERING CHEMISTRY					SUBJECT CODE			18CHE22				
CO & PO MAPPING													
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	3	2	1	2	1	1	1	2	1	1	1	2	
CO2	3	2	1	2	-	1	1	1	1	1	-	2	
CO3	3	1	1	1	-	2	3	1	1	1	1	2	
CO4	3	2	1	3	1	2	3	1	1	1	-	2	
CO5	3	1	1	1	1	2	2	1	1	1	1	2	
AVERAGE	3	1.6	1	1.8	1	1.6	2	1.2	1	1	1	2	
OVERALL MAPPING OF SUBJECT												1.52	

#### CO AND PO ATTAINMENT

	CO%	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	76.91	2.28	1.52	0.77	1.52	0.77	0.77	0.77	1.52	0.77	0.77	0.77	1.52
CO2	71.90	2.15	1.44	0.72	1.44	-	0.72	0.72	0.72	0.72	0.72	-	1.44
CO3	74.20	2.22	0.74	0.74	0.74	-	1.5	2.22	0.74	0.74	0.74	0.74	1.5
CO4	69.89	2.06	1.4	0.7	2.06	0.7	1.4	2.06	0.7	0.7	0.7	-	1.4
CO5	77.30	2.31	0.77	0.77	0.77	0.77	1.54	1.54	0.77	0.77	0.77	0.77	1.54
AVERAGE	74.04	2.204	1.174	0.74	1.306	0.75	1.186	1.462	0.89	0.74	0.74	0.76	1.48
FINAL ATTAINMENT LEVEL													1.12



*[Signature]*  
FACULTY

*[Signature]*  
HOD

*[Signature]*  
PRINCIPAL  
PRINCIPAL  
SIET., TUMAKURU.

Academic year	2020-21		SEM I		SEM II		Total strength					69					Engineering Chemistry					Subject Code 18CHEE12									
SEM I, SEC: A&B	IA TEST 1 (30M)			IA TEST 2 (30M)			IA TEST 3 (30M)			ASSIGNMENT (10M)+10 Gr					SEE MARKS (50M)					Total Cos ATTAINMENT					Avg of individual CO						
USN	CO1=15	CO5=15	TOTAL	CO2=15	CO3=15	TOTAL	CO3	CO4=15	TOTAL	CO1=4	CO2=4	CO3=4	CO4=4	CO5=4	CO1=10	CO2=10	CO3=10	CO4=10	CO5=10	CO1=29	CO2=29	CO3=44	CO4=29	CO5=29	CO1	CO2	CO3	CO4	CO5		
ISV20CS001	14	13	27	15	14	29	15	10	25	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	23.2	24.2	38.2	19.2	22.2	80	83.45	86.82	38	76.55		
ISV20CS002	14	15	29	15	14	29	15	15	30	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	24.2	25.2	39.2	25.2	25.2	83.45	86.9	89.09	86.9	86.9		
ISV20CS003	15	14	29	15	14	29	15	15	30	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	26.8	26.8	40.8	26.8	25.8	92.41	92.41	92.73	92.41	88.97		
ISV20CS004	10	15	25	15	14	29	14	15	29	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	20.2	25.2	38.2	25.2	25.2	69.66	86.9	86.82	86.9	86.9		
ISV20CS005	14	14	28	15	15	30	15	15	30	4	4	4	4	4	8.2	8.2	8.2	8.2	8.2	26.2	27.2	42.2	27.2	26.2	90.34	93.79	95.91	93.79	90.34		
ISV20CS006	14	10	24	15	15	30	15	15	30	4	4	4	4	4	7.6	7.6	7.6	7.6	7.6	25.6	26.6	41.6	26.6	21.6	88.28	91.72	94.55	91.72	74.48		
ISV20CS007	10	15	25	14	10	24	15	10	25	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	19.8	23.8	34.8	19.8	24.8	68.28	82.07	79.09	68.28	85.52		
ISV20CS008	11	14	25	15	15	30	14	15	29	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	20.8	24.8	38.8	24.8	23.8	71.72	85.52	88.18	85.52	82.07		
ISV20CS009	15	15	30	15	14	29	14	15	29	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	26.2	26.2	39.2	26.2	26.2	90.34	90.34	89.09	90.34	90.34		
ISV20CS010	9	15	24	11	14	25	13	15	28	4	4	4	4	4	7	7	7	7	7	20	22	38	26	26	68.97	75.86	86.36	89.66	89.66		
ISV20CS011	9	9	18	8	12	20	9	7	16	4	4	4	4	4	3.8	3.8	3.8	3.8	3.8	16.8	15.8	28.8	14.8	16.8	57.93	54.48	65.45	51.03	57.93		
ISV20CS012	15	14	29	11	14	25	12	12	24	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	24.8	20.8	35.8	21.8	23.8	85.52	71.72	81.36	75.17	82.07		
ISV20CS013	10	10	20	13	15	28	15	15	30	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	21.2	24.2	41.2	26.2	21.2	73.1	83.45	93.64	90.34	73.1		
ISV20CS014	13	13	26	15	15	30	15	15	30	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	23.2	26.2	41.2	26.2	24.2	83.45	90.34	93.64	90.34	83.45		
ISV20CS015	13	14	27	15	10	25	12	13	25	4	4	4	4	4	6.8	6.8	6.8	6.8	6.8	23.8	25.8	32.8	23.8	24.8	82.07	88.97	74.55	82.07	85.52		
ISV20CS016	14	14	28	14	14	28	14	15	29	4	4	4	4	4	6.4	6.4	6.4	6.4	6.4	24.4	24.4	38.4	25.4	24.4	84.14	84.14	87.27	87.59	84.14		
ISV20CS017	13	13	26	14	14	28	12	10	22	4	4	4	4	4	6	6	6	6	6	23	24	36	20	23	79.31	82.76	81.82	68.97	79.31		
ISV20CS018	11	12	23	14	8	22	14	15	29	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	21.2	24.2	32.2	25.2	22.2	73.1	83.45	73.18	86.9	76.55		
ISV20CS019	14	14	28	7	7	14	0	0	0	4	4	4	4	4	4.2	4.2	4.2	4.2	4.2	22.2	15.2	15.2	8.2	22.2	76.55	52.41	34.55	28.28	76.55		
ISV20CS020	13	13	26	15	15	30	14	7	21	4	4	4	4	4	4.2	4.2	4.2	4.2	4.2	21.2	23.2	37.2	15.2	21.2	73.1	80	84.55	52.41	73.1		
ISV20CS021	15	15	30	14	8	22	8	15	23	4	4	4	4	4	6.2	6.2	6.2	6.2	6.2	25.2	24.2	26.2	25.2	25.2	86.9	83.45	59.55	86.9	86.9		
ISV20CS022	13	14	27	14	11	25	9	7	16	4	4	4	4	4	6.4	6.4	6.4	6.4	6.4	23.4	24.4	30.4	17.4	24.4	80.69	84.14	69.09	60	84.14		
ISV20CS023	11	11	22	14	14	28	13	8	21	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	20.8	23.8	36.8	17.8	20.8	71.72	82.07	83.64	61.38	71.72		
ISV20CS024	10	7	17	15	15	30	15	15	30	4	4	4	4	4	6.6	6.6	6.6	6.6	6.6	20.6	25.6	40.6	25.6	17.6	71.03	88.28	92.27	88.28	60.69		
ISV20CS025	10	12	22	4	8	12		0	0	4	4	4	4	4	3.4	3.4	3.4	3.4	3.4	17.4	11.4	15.4	7.4	19.4	60	39.31	35	25.52	66.9		
ISV20CS026	13	10	23	0	0	0	5	0	5	4	4	4	4	4	3.2	3.2	3.2	3.2	3.2	20.2	7.2	12.2	7.2	17.2	69.66	24.83	27.73	24.83	59.31		
ISV20CS027	12	11	23	9	9	18	14	15	29	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	20.6	17.6	31.6	23.6	19.6	71.03	60.69	71.82	81.38	67.59		
ISV20CS028	15	15	30	15	8	23	11	7	18	4	4	4	4	4	5.4	5.4	5.4	5.4	5.4	24.4	24.4	28.4	16.4	24.4	84.14	84.14	64.55	56.55	84.14		
ISV20CS029	10	15	25	15	15	30	10	11	21	4	4	4	4	4	6	6	6	6	6	20	25	35	21	25	68.97	86.21	79.55	72.41	86.21		
ISV20CS030	15	10	25	10	15	25	9	8	17	4	4	4	4	4	4.2	4.2	4.2	4.2	4.2	23.2	18.2	32.2	16.2	18.2	80	62.76	73.18	55.86	62.76		
ISV20CS031	10	13	23	5	5	10	5	5	10	4	4	4	4	4	7.4	7.4	7.4	7.4	7.4	21.4	16.4	21.4	16.4	24.4	73.79	56.55	48.64	56.55	84.14		
ISV20CS032	14	13	27	5	8	13	14	2	16	4	4	4	4	4	5	5	5	5	5	23	14	31	11	22	79.31	48.28	70.45	37.93	75.86		
ISV20CS033	14	14	28	8	15	23	15	15	30	4	4	4	4	4	7.2	7.2	7.2	7.2	7.2	25.2	19.2	41.2	26.2	25.2	86.9	66.21	93.64	90.34	86.9		
ISV20CS034	14	15	29	14	15	29	14	15	29	4	4	4	4	4	8	8	8	8	8	26	26	41	27	27	89.66	89.66	93.18	93.1	93.1		
ISV20CS035	10	11	21	13	15	28	14	15	29	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	21.8	24.8	40.8	26.8	22.8	75.17	85.52	92.73	92.41	78.62		
ISV20CS036	12	12	24	14	15	29	14	15	29	4	4	4	4	4	7.4	7.4	7.4	7.4	7.4	23.4	25.4	40.4	26.4	23.4	80.69	87.59	91.82	91.03	80.69		
ISV20CS037	15	14	29	15	15	30	15	15	30	4	4	4	4	4	8.4	8.4	8.4	8.4	8.4	27.4	27.4	42.4	27.4	26.4	94.48	94.48	96.36	94.48	91.03		
ISV20CS038	10	14	24	9	14	23	12	15	27	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	18.6	17.6	34.6	23.6	22.6	64.14	60.69	78.64	81.38	77.93		
ISV20CS039	11	13	24	6	15	21	14	14	28	4	4	4	4	4	5	5	5	5	5	20	15	38	23	22	68.97	51.72	86.36	79.31	75.86		
ISV20CS040	10	13	23	10	15	25	14	14	28	4	4	4	4	4	6	6	6	6	6	20	20	39	24	23	68.97	68.97	88.64	82.76	79.31		
ISV20CS041	15	10	25	9	9	18	0	0	0	4	4	4	4	4	3.6	3.6	3.6	3.6	3.6	22.6	16.6	16.6	7.6	17.6	77.93	57.24	37.73	26.21	60.69		
ISV20CS042	15	15	30	14	12	26	14	10	24	4	4	4	4	4	6.4	6.4	6.4	6.4	6.4	25.4	24.4	36.4	20.4	25.4	87.59	84.14	82.73	70.34	87.59		
ISV20CS043	14	13	27	13	15	28	15	15	30	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	23.2	22.2	39.2	24.2	22.2	80	76.55	89.09	83.45	76.55		
ISV20CS045	10	14	24	5	5	10	5	14	19	4	4	4	4	4	6	6	6	6	6	20	15	20	24	24	68.97	51.72	45.45	82.76	82.76		
ISV20CS046	14	10	24	8	5	13	5	8	13	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	23.2	17.2	19.2	17.2	19.2	80	59.31	43.64	59.31	66.21		
ISV20CS047	13	13	26	0	0	0	0	0	0	4	4	4	4	4	3.8	3.8	3.8	3.8	3.8	20.8	7.8	7.8	7.8	20.8	71.72	26.9	17.73	26.9	71.72		
ISV20CS048	10	12	22	10	15	25	15	14	29	4	4	4	4	4	7	7	7	7	7	21	21	41	25	23	72.41	72.41	93.18	86.21	79.31		
ISV20CS049	13	13	26	5	5	10	5	5	10	4	4	4	4	4	5.8	5.8	5.8	5.8	5.8	22.8	14.8	19.8	14.8	22.8	78.62	51.03	45	51.03	78.62		
ISV20CS050	15	15	30	14	15	29	14	14	28	4	4	4	4	4	6	6	6	6	6	25	24	39	24	25	86.21	82.76	88.64	82.76	86.21		

ISV20CS051	10	15	25	15	15	30	14	14	28	4	4	4	4	4	6	6	6	6	6	20	25	39	24	25	68.97	86.21	88.64	82.76	86.21
ISV20CS052	11	12	23	15	7	22	11	14	25	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	19.6	23.6	26.6	22.6	20.6	67.59	81.38	60.45	77.93	71.03
ISV20CS053	13	13	26	11	14	25	15	15	30	4	4	4	4	4	4.6	4.6	4.6	4.6	4.6	21.6	19.6	37.6	23.6	21.6	74.48	67.59	85.45	81.38	74.48
ISV20CS054	15	14	29	14	15	29	15	15	30	4	4	4	4	4	8.8	8.8	8.8	8.8	8.8	27.8	26.8	42.8	27.8	26.8	95.86	92.41	97.27	95.86	92.41
ISV20CS055	15	10	25	14	14	28	15	15	30	4	4	4	4	4	6	6	6	6	6	25	24	39	25	20	86.21	82.76	88.64	86.21	68.97
ISV20CS056	15	14	29	5	5	10	5	5	10	4	4	4	4	4	7.8	7.8	7.8	7.8	7.8	26.8	16.8	21.8	16.8	25.8	92.41	57.93	49.55	57.93	88.97
ISV20IS001	15	15	30	8	4	12	11	5	16	4	4	4	4	4	6	6	6	6	6	20	24	38	24	25	68.97	82.76	86.36	82.76	86.21
ISV20IS002	10	15	25	14	14	28	14	14	28	4	4	4	4	4	6	6	6	6	6	17	21	33	25	18	58.62	72.41	75	86.21	62.07
ISV20IS003	7	8	15	11	9	20	14	15	29	4	4	4	4	4	6	6	6	6	6	19.8	15.8	29.8	13.8	20.8	68.28	54.48	67.73	47.59	71.72
ISV20IS004	14	15	29	10	10	20	14	8	22	4	4	4	4	4	1.8	1.8	1.8	1.8	1.8	18.6	14.6	19.6	9.6	18.6	64.14	50.34	44.55	33.1	64.14
ISV20IS005	14	14	28	10	0	10	15	5	20	4	4	4	4	4	0.6	0.6	0.6	0.6	0.6	18.6	14.6	19.6	9.6	20	86.21	62.07	84.09	82.76	68.97
ISV20IS006	15	10	25	8	12	20	15	14	29	4	4	4	4	4	6	6	6	6	6	25	18	37	24	20	86.21	62.07	84.09	82.76	68.97
ISV20IS007	10	10	20	8	14	22	12	7	19	4	4	4	4	4	0.6	0.6	0.6	0.6	0.6	14.6	12.6	30.6	11.6	14.6	50.34	43.45	69.55	40	50.34
ISV20IS008	11	11	22	13	11	24	14	8	22	4	4	4	4	4	5.2	5.2	5.2	5.2	5.2	20.2	22.2	34.2	17.2	20.2	69.66	76.55	77.73	59.31	69.66
ISV20IS009	10	14	24	14	11	25	5	4	9	4	4	4	4	4	1	1	1	1	1	15	19	21	9	19	51.72	65.52	47.73	31.03	65.52
ISV20IS010	14	15	29	14	11	25	13	11	24	4	4	4	4	4	6	6	6	6	6	24	24	34	21	25	82.76	82.76	77.27	72.41	86.21
ISV20IS011	15	15	30	11	9	20	15	15	30	4	4	4	4	4	4.2	4.2	4.2	4.2	4.2	23.2	19.2	32.2	23.2	23.2	80	66.21	73.18	80	80
ISV20IS012	15	14	29	10	10	20	15	0	15	4	4	4	4	4	2.4	2.4	2.4	2.4	2.4	21.4	16.4	31.4	6.4	20.4	73.79	56.55	71.36	22.07	70.34
ISV20IS013	11	11	22	8	10	18	14	14	28	4	4	4	4	4	0.8	0.8	0.8	0.8	0.8	15.8	12.8	28.8	18.8	15.8	54.48	44.14	65.45	64.83	54.48
ISV20IS014	15	15	30	14	5	19	14	15	29	4	4	4	4	4	4.2	4.2	4.2	4.2	4.2	23.2	22.2	27.2	23.2	23.2	80	76.55	61.82	80	80
																									76.1	71.9	74.2	69.9	77.3

*[Signature]*  
FACULTY

*[Signature]*  
HOD

*[Signature]*  
PRINCIPAL  
PRINCIPAL  
SIET., TUMAKURU.