1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years (20)

S.No.	Name of the Course	Course Code	Year of introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Link to the relevant document
			2019-20		
1	Integrated Solid Waste Mangement	16CH017	2016	Domain specific skills of Environmental Engineering	https://bit.ly/2WX14Jk
2	Introduction to Nanotechnology	16CH014	2016	Domain specific skills of Nano technology	https://bit.ly/2WX14Jk
3	Polymer Technology	16CH003	2016	Domain specific skills Polymer Technology	https://bit.ly/2WX14Jk
4	Computer Aided Analysis and Simulation lab	16ME705	2016	Train students to develop Software simulations skills	https://bit.ly/2OZ2YEM
5	Total Quality Management	16ME017	2016	Develop skills in Quality maintenance	https://bit.ly/2OZ2YEM
6	Project Management	16ME022	2016	Develop skills in Team activities and goals settings	https://bit.ly/2OZ2YEM
7	Introduction to Turbo Machines and Jet Engines	16MEI01	2016	Develop skills in advanced Jet and Turbo machinery	https://bit.ly/2OZ2YEM
8	Additive Manufacturing & Mechatronics Lab	16ME704	2016	Develop practical skills on additive manufacturing and mechatronics	https://bit.ly/2OZ2YEM
9	Industrial Safety	16MEI03	2016	Impart knowledge on safety and precautions in industries	https://bit.ly/2OZ2YEM
10	Big Data Analytics	16IT701	2016	Employability	https://bit.ly/30UoAYO
11	Full Semester Internship	16IT706	2016	Skill Development	https://bit.ly/30UoAYO
12	Application Security	16IT008	2016	Employability	https://bit.ly/30UoAYO
13	Introduction to Data Analytics	16IT015	2016	Employability	https://bit.ly/30UoAYO
14	Enterprise Application development Using IBM RAD & Bluemix	16IT016	2016	Employability	https://bit.ly/30UoAYO
15	Big Data Analytics with Hadoop Platform	16IT017	2016	Employability	https://bit.ly/30UoAYO
16	Big Data Analytics	16IT701	2016	Employability	https://bit.ly/30UoAYO
17	Big Data Analytics Lab	16IT705	2016	Employability	https://bit.ly/30UoAYO
18	Mobile Application Development Lab	16CS705	2016	Employability	https://bit.ly/30RVut3
19	Professional Ethics	16IT802	2016	Employability	https://bit.ly/30UoAYO
20	Machine Learning	16CS802	2016	Employability	https://bit.ly/30RVut3
21	IoT for Engineering Applications	16CS007	2016	Employability	https://bit.ly/30RVut3
22	Advanced Communicative English	19HSX03	2019	Skill development	https://bit.ly/3g8k3IE
23	PEGA Fundamentals	16CSI03	2019	Skill development	https://bit.ly/30RVut3
24	Wind Energy	16PE008	2016	Impart domain knowledge on wind energy power generation	https://bit.ly/2BvamEP
25	Operation and Control of Power System	16PE801	2016	Impart domain knowledge on Operation and control of power systems	https://bit.ly/2BvamEP
26	Power Plant Professional Ethics	16PE802	2016	Impart domain knowledge on management skills, ethics in Power sector	https://bit.ly/2BvamEP
27	Advanced Power generation technology	16PE016	2016	Impart domain knowledge on advanced power generation methods	https://bit.ly/2BvamEP
28	Engineering Economics and Project Management	16HSX04	2016	Impart domain knowledge on economics and project management	https://bit.ly/3g8k3IE
29	Green Buildings	16CE021	2016	Green field infrastructure for sustainable Environment	https://bit.ly/3g8k3IE
30	Geospatial Techniques	16CE701	2016	Spatial data acquisation technique	https://bit.ly/3g8k3IE
31	Structural Modeling and Design Lab	16CE704	2016	Analytical and design skills with FEM software	https://bit.ly/3g8k3IE
32	Construction costing and Management	16CE801	2016	Construction Management skills	https://bit.ly/3g8k3IE
33	Professional Ethics in Civil Engineering	16CE802	2016	Management skills	https://bit.ly/3g8k3IE
34	Basics of Engineering	19BEX01	2019	Communicative skills	https://bit.ly/3g8k3IE
35	Communicative English Laboratory	19HSX02	2019	Communicative skills	https://bit.ly/3g8k3IE
36	Problem Solving and Programming Skills	19BEX02	2019	Problem Solving and Programming Skills	https://bit.ly/3g8k3IE
37	Problem Solving and Programming Skills Laboratory	19BEX03	2019	Problem Solving and Programming Skills	https://bit.ly/3g8k3IE
38	Ethics for Electrical Engineers	16EE801	2016	Develope Professional ethics in core domain	https://bit.ly/3jDe4gW
39	Electrical Systems and Simulation Lab	16EE704	2016	Develop skills on simulation of Electrical Systems	https://bit.ly/3jDe4gW
40	Electric Locomotives, Traction and Vehicles	16EE009	2016	Impart domain knowledge on Electric Locomotives, Traction and Vehicles	https://bit.ly/3jDe4gW
41	Electrical Installation, Design & Estimation	16EE013	2016	Impart domain knowledge on Electrical Installation, Design & Estimation	https://bit.ly/3jDe4gW
			2018-19		
42	Computational Mathematics	16MA001	2016	Mathematical research skills	https://bit.ly/2OZ2YEM
43	Petroleum Refining and Petrochemicals	16CH005	2016	Chemical Engineering Domain specific skills	https://bit.ly/2WX14Jk
44	Chemical Engineering Unit Operations	16CHI02	2016	Chemical Engineering Domain specific skills	https://bit.ly/2WX14Jk
45	Cloud Computing	16IT504	2016	Employability	https://bit.ly/30UoAYO
46	Cloud Computing Lab	16IT507	2016	Skill Development	https://bit.ly/30UoAYO
47	Information System Design	16IT001	2016	Employability	https://bit.ly/30UoAYO
48	Information Theory & Coding	16IT004	2016	Employability	https://bit.ly/30UoAYO
49	Artificial Intelligence	16IT602	2016	Employability	https://bit.ly/30UoAYO
50	CCEC Activity - II	16HSX06	2016	Employability	https://bit.ly/3g8k3IE
51	Employability Skills – III	16ESX03	2016	Skill development	https://bit.ly/3g8k3IE
52	Employability Skills - IV	16ESX04	2016	Skill development	https://bit.ly/3g8k3IE
53	Data Modeling for Business Intelligence	16CSI02	2016	Employability	https://bit.ly/30RVut3
54	Operation and Maintenance of Power Plant(CC)	16PE020	2016	Operation and Maintenance of Power Plant	https://bit.ly/2BvamEP
55	Power Plant Erection and Commissioning(CC)	16PE021	2016	Erection and Commissioning of Power Plant auxiliaries	https://bit.ly/2BvamEP
56	Object Oriented Programming	16CS307	2016	Impart domain knowledge and hands on Programming Skills	https://bit.ly/30RVut3
57	Power Plant Instrumentation and Control	16PE602	2016	Impart domain knowledge on Power Plant Instrumentation and Control	https://bit.ly/2BvamEP
58	Switch Gear and Protective Devices	16PE603	2016	Impart domain knowledge on switch gear and protective devices	https://bit.ly/2BvamEP
59	Power Electronics and Drives	16PE604	2016	Impart domain knowledge on Power electronics and devices	https://bit.ly/2BvamEP
60	Power Plant safety systems	16PE005	2016	Impart domain knowledge on Power plant safety systems	https://bit.ly/2BvamEP
61	Heat and Mass Transfer	16PE501	2016	Impart domain knowledge on heat and mass transfer	https://bit.ly/2BvamEP
62	Steam Generators and Prime Movers	16PE502	2016	Impart domain knowledge on steam generators and prime movers	https://bit.ly/2BvamEP
63	Control System Engineering	16PE503	2016	Impart domain knowledge and hands on practice on control system engine	https://bit.ly/2BvamEP
64	Synchronous and Special Motors	16PE504	2016	Impart domain knowledge on synchronous and special machines	https://bit.ly/2BvamEP
65	Electrical Power Transmission and Distribution	16PE505	2016	Impart domain knowledge on electrical power transmission and distributi	https://bit.ly/2BvamEP
66	Non-Conventional Energy Resources	16PE001	2016	Impart domain knowledge on non conventional energy resources	https://bit.ly/2BvamEP
67	Smart Grid Technology (PE)	16PE007	2016	Impart domain knowledge on Smart grid technology	https://bit.ly/2BvamEP
68	Solar PV Power Plant	16PEI03	2016	Train on design aspects of Solar PV Power Plant	https://bit.ly/2BvamEP
69	Wind Power Plant	16PEI04	2016	Train on design aspects of Wind Turbine Power Plant	https://bit.ly/2BvamEP
70	Construction Technology	16CE001	2016	Construction Techniques	https://bit.ly/3g8k3IE
71	Pavement Engineering	16CE003	2016	Transport carriage facilities	https://bit.ly/3g8k3IE
72	Traffic Engineering and safety	16CE006	2016	Safety measure in transport system	https://bit.ly/3g8k3IE
73	Water Resource Engineering II	16CE604	2016	Design of Irrigation Structures	https://bit.ly/3g8k3IE
74	Water Resource Engineering I	16CE505	2016	Design of Irrigation Structures	https://bit.ly/3g8k3IE
75	Survey camp	16CE507	2016	Surveying skills	https://bit.ly/3g8k3IE
76	Design of Steel Structures	16CE504	2016	Design of connections for steel members	https://bit.ly/3g8k3IE
77	Electronic Measurements and Instrumentation	16EC001	2016	Impart domain knowledge on measurements and instruments	https://bit.ly/3eX5xBP
78	Analog and Mixed Signal Design	16EC014	2016	Develop design skills to process analog and mixed signals	https://bit.ly/3eX5xBP
79	Additive Manufacturing	16ME005	2016	Impart knowledge on transformative approach to industrial production	https://bit.ly/2OZ2YEM
80	Automotive Electrical Engineering	16EE002	2016	Develop skills on Automotive Electrical Engineering	https://bit.ly/3jDe4gW
81	Discrete Signal Processing	16EE601	2016	Impart domain knowledge on Discrete Signal Processing	https://bit.ly/3jDe4gW

2017-18					
82	Material and Energy balance in Process Industry	16CHI01	2016	Chemical Engineering Domain specific skills	https://bit.ly/2WX14Jk
83	Instrumentation Lab	16CH308	2016	Chemical Engineering Domain specific skills	https://bit.ly/2WX14Jk
84	Introduction to Chemical Engineering	16CH305	2016	Chemical Engineering Domain specific skills	https://bit.ly/2WX14Jk
85	Fundamentals of Engineering Thermodynamics	16PE302	2016	Impart domain knowledge on engineering thermodynamics	https://bit.ly/2BvamEP
86	Mechanics of Fluids and Hydraulic Machines	16PE303	2016	Impart domain knowledge on fluid mechanics and hydraulic machinery	https://bit.ly/2BvamEP
87	Materials and Manufacturing Processes	16PE304	2016	Impart domain knowledge on materials and manufacturing processes	https://bit.ly/2BvamEP
88	Dc Machines	16EE303	2016	Impart domain knowledge on Dc Machines	https://bit.ly/3jDe4gW
89	Electrical Circuit Analysis	16PE306	2016	Impart domain knowledge on Electrical Circuit Analysis	https://bit.ly/2BvamEP
90	Fundamentals of Solid Mechanics	16PE401	2016	Impart domain knowledge on Fundamentals of Solid Mechanics	https://bit.ly/2BvamEP
91	Applied Thermal Engineering	16ME401	2016	Impart domain knowledge on applied thermal engineering	https://bit.ly/2OZ2YEM
92	Analog and Digital Electronics	16PE403	2016	Impart domain knowledge on analog and digital electronics	https://bit.ly/2BvamEP
93	Transformers and Induction Machines	16EE404	2016	Impart domain knowledge on transformers and induction Machines	https://bit.ly/3jDe4gW
94	Electrical Measurements and Power Plant Instrumentation	16PE405	2016	Impart domain knowledge on electrical measurements	https://bit.ly/2BvamEP
95	Power Generation Engineering	16PE406	2016	Impart domain knowledge on power generation engineering	https://bit.ly/2BvamEP
96	Java Lab	16IT309	2016	Problem Solving and Programming Skills	https://bit.ly/30UoAYO
97	Object Oriented Programming through java	16IT306	2016	Develop domain knowledge on Object Oriented Programming	https://bit.ly/30UoAYO
98	Rigid Body Dynamics	16ME305	2016	Develop skills in the analysis of rigid body motion to include dynamics	https://bit.ly/2OZ2YEM
99	Data Analytics-I	16IT012	2016	Employability	https://bit.ly/30UoAYO
100	Data Analytics-II	16IT013	2016	Employability	https://bit.ly/30UoAYO
101	Data Analytics-III	16IT014	2016	Employability	https://bit.ly/30UoAYO
102	Linux Programming Lab.	16CS408	2016	Emploability	https://bit.ly/30RVut3
103	CCEC Activity - I	16HSX05	2016	Employability	https://bit.ly/3g8k3IE
104	Employability Skills - I	16ESX01	2016	Skill development	https://bit.ly/3g8k3IE
105	Employability Skills – II	16ESX02	2016	Skill development	https://bit.ly/3g8k3IE
106	Tibero	16CSI01	2016	Employability	https://bit.ly/30RVut3
107	Building Planning and Drawing	16CE306	2016	Building plan drafting skills	https://bit.ly/3g8k3IE
108	Signals and Systems Lab	16EC309	2016	Practical knowledge on signals & systems using scilab	https://bit.ly/3eX5xBP
109	Object Oriented Programming through Java	16CS307	2016	Develop domain knowledge on Object Oriented Programming	https://bit.ly/30RVut3
110	Linear IC Applications	16EC503	2016	Develop domain knowledge on linear IC applications	https://bit.ly/3eX5xBP
111	Network Analysis & Synthesis	16EE403	2016	Develop the network solving techniques in network analysis & synthesis	https://bit.ly/3jDe4gW
112	Power Plant Engineering & Economics	16EE405	2016	Develop Knowledge on Power Plant Engineering & Economics	https://bit.ly/3jDe4gW
113	Linear IC Applications Lab	16EC607	2016	Develop design skills of linear IC applications	https://bit.ly/3eX5xBP
2016-17					
114	English Communication Skills I	16HSX01	2016	Skill Development	https://bit.ly/3g8k3IE
115	English Communication Skills II	16HSX03	2016	Skill Development	https://bit.ly/3g8k3IE
116	English Communication Skills Lab	16HSX02	2016	Skill Development	https://bit.ly/3g8k3IE
117	Engineering Workshop	16MEX03	2016	Skill Development	https://bit.ly/2OZ2YEM
118	Non-conventional Sources of Energy	ME 4439	2013	Develop knoweledge on different energy forms	https://bit.ly/2OZ2YEM
119	Automotive Electrical and Electronics	16EEI01	2016	Develop knoweledge on Automotive Electrical and Electronics	https://bit.ly/3jDe4gW
120	Digital Electronics and Microprocessor Lab	ECE 3229	2013	Develop design skills of Digital Electronics and Microprocessor	https://bit.ly/3eX5xBP
121	Measurements and Control Systems Lab	EEE 4236	2013	Develop design skills of Measurements and Control	https://bit.ly/3jDe4gW
122	Full Semester Internship	GMR42007	2013	Development of Employability experience in Industry	https://bit.ly/3g8k3IE
123	Computational Fluid Dynamics	ME 4440	2013	Domain specific skills of Computational Fluid Dynamics	https://bit.ly/2OZ2YEM
124	Novel Separation Techniques	CHEM 4444	2013	Chemical Engineering Domain specific skills	https://bit.ly/2WX14Jk
2015-16					
125	Principles of Entrepreneurship	ME 3432	2013	Impart principles that guides an entrepreneur to succeed	https://bit.ly/2OZ2YEM
126	Smart grid technology	PE 3409	2013	Impart knowledge on overview of smart grid and its potential in different	https://bit.ly/2BvamEP
127	Fertilizer Technology	CHEM 3423	2013	Domain specific skills of Fertiliser industry	https://bit.ly/2WX14Jk
128	Engineering Economics and Project Management	HS 3405	2013	Entrepreneurship Skills	https://bit.ly/3g8k3IE
129	Computer Applications in Chemical Engg(CACE) Lab	CHEM 3217	2013	Chemical Engineering Domain specific skills	https://bit.ly/2WX14Jk