

1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)
1	LINEAR ALGEBRA AND CALCULUS	R20CC1102	Skill development	R20(1-1)
2	SOFT SKILLS AND COMMUNICATION SKILLS LAB-1	R20CC11L1	Employability	R20(1-1)
3	ENGINEERING CHEMISTRY LAB	R20CC11L5	Skill development	R20(1-1)
4	ENGINEERING DRAWING	R20CC1207	Skill development	R20(1-2)
5	ELEMENTS OF ELECTRICAL AND ELECTRONICS ENGG. LAB	R20CC12L7	Skill development	R20(1-2)
6	ENGINEERING PHYSICS LAB	R20CC12L5	Skill development	R20(1-2)
7	ENGINEERING WORKSHOP	R20CC12L4	Skill development	R20(1-2)
8	SURVEYING AND GEOMATICS	R20CE2104	Employability	R20(2-1)
9	CONCRETE TECHNOLOGY	R20CE2105	Skill development	R20(2-1)
10	STRENGTH OF MATERIALS LAB	R20CE21L1	Skill development	R20(2-1)
11	COMPUTER AIDED BUILDING DRAWING LAB	R20CE21L2	Skill development	R20(2-1)
12	SURVEYING FIELD WORK LAB	R20CE21L3	Skill development	R20(2-1)
13	BUILDING MATERIALS AND CONSTRUCTION TECHNOLOGY LAB	R20CE21SC1	Skill development	R20(2-1)
14	TECHNICAL AND COMMUNICATIVE ENGLISH – II	R20CC2201	Skill development	R20(2-2)
15	HYDRAULICS AND HYDRAULIC MACHINERY	R20CE2205	Skill development	R20(2-2)
16	ENGINEERING GEOLOGY LAB	R20CE22L1	Skill development	R20(2-2)
17	FLUID MECHANICS AND HYDRAULIC MACHINERY LAB	R20CE22L2	Skill development	R20(2-2)
18	CONCRETE TECHNOLOGY LAB	R20CE22L3	Skill development	R20(2-2)
19	ADVANCED SURVEYING LAB	R20CE22SC1	Skill development	R20(2-2)
20	DESIGN OF REINFORCED CONCRETE STRUCTURES	R20CE3101	Skill development	R20(3-1)
21	SOIL MECHANICS LABORATORY	R20CE31L1	Skill development	R20(3-1)
22	HIGHWAY ENGINEERING LAB	R20CE31L2	Skill development	R20(3-1)
23	STAAD.PRO	R20CE31L3	Employability	R20(3-1)
24	PROFESSIONAL ETHICS & HUMAN VALUES	R20CC31MC01	Skill development	R20(3-1)
25	INTERNSHIP/COMMUNITY SERVICE PROJECT	R20CC31IN	Skill development	R20(3-1)
26	ENVIRONMENTAL ENGINEERING	R20CE3202	Employability	R20(3-2)
27	HYDROLOGY & IRRIGATION ENGINEERING	R20CE3203	Skill development	R20(3-2)
28	REMOTE SENSING AND GIS	R20CC20E01	Skill development	R20(3-2)
29	ENVIRONMENTAL ENGINEERING LAB	R20CE32L1	Skill development	R20(3-2)
30	GIS LAB	R20CE32L2	Employability	R20(3-2)
31	CIVIL ENGINEERING DRAWING	R20CE32L3	Skill development	R20(3-2)
32	ENGLISH FOR EMPLOYABILITY SKILLS	R20CC32L4	Skill development	R20(3-2)
33	WATERSHED MANAGEMENT	R20CE4102	Skill development	R20(4-1)
34	ESTIMATION COSTING AND VALUATION	R20CE4107	Employability	R20(4-1)
35	QUANTITY ESTIMATION & PROJECT MANAGEMENT LAB	R20CE41L1	Employability	R20(4-1)
36	INTERNSHIP/ COMMUNITY SERVICE PROJECT	R20CC41IN	Employability	R20(4-1)
37	MOOCS	R20CC41MC	Skill development	R20(4-1)
38	MAJOR PROJECT&	R20CC42PW	Employability	R20(4-2)
39	EEE WORKSHOP	R23CC11L7	Skill development	R23(1-1)
40	NSS/NCC/SCOUTS AND GUIDES/COMMUNITY SERVICE	R23CC11MC2	Skill development	R23(1-1)
41	DIFFERENTIAL EQUATIONS & VECTOR CALCULUS	R23CC1201	Skill development	R23(1-2)
42	COMMUNICATIVE ENGLISH	R23CC1206	Skill development	R23(1-2)
43	ENGINEERING WORKSHOP	R23CC12L9	Employability	R23(1-2)
44	ENGINEERING MECHANICS & BUILDING PRACTICES LAB	R23CE12L8	Skill development	R23(1-2)
45	ENGINEERING CHEMISTRY LAB	R23CC12L11	Skill development	R23(1-2)
46	HEALTH AND WELLNESS, YOGA AND SPORTS	R23CC12MC1	Skill development	R23(1-2)
47	ENGINEERING MECHANICS LAB	R23ME12L7	Skill development	R23(1-2)
48	COMMUNICATIVE ENGLISH LAB	R23CC12L12	Skill development	R23(1-2)
49	NUMERICAL TECHNIQUES AND STATISTICAL METHODS	R23CE2111	Skill development	R23(2-1)
50	SURVEYING LAB	R23CE21L1	Employability	R23(2-1)
51	STRENGTH OF MATERIALS LAB	R23CE21L2	Skill development	R23(2-1)
52	BUILDING PLANNING AND DRAWING	R23CE21L3	Employability	R23(2-1)
53	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS	R23CC2201	Employability	R23(2-2)

54	CONCRETE TECHNOLOGY	R23CE2203	Skill development	R23(2-2)
55	HYDRAULICS&HYDRAULIC MACHINERY	R23CE2205	Skill development	R23(2-2)
56	CONCRETE TECHNOLOGY LAB	R23CE22L1	Employability	R23(2-2)
57	REMOTE SENSING& GEOGRAPHICAL INFORMATION SYSTEMS	R23CE22L4	Skill development	R23(2-2)
58	DESIGN THINKING & INNOVATION	R23CC22L3	Skill development	R23(2-2)



A handwritten signature in green ink, appearing to be 'V. V. V.', is written above the principal's name.

Principal
NARASARAOPETA ENGINEERING COLLEGE
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T.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)
1	Technical and Communicative English – I	R20CC1101	Skill development	R20(1-1)
2	Linear Algebra and Calculus	R20CC1102	Skill development	R20(1-1)
3	Problem Solving Using C	R20CC1105	Skill development	R20(1-1)
4	Basics in Mechanical and Civil Engineering	R20EE1109	Skill development	R20(1-1)
5	Engineering Drawing and Design	R20EE1110	Skill development	R20(1-1)
6	Soft Skills and Communication Skills Lab-1	R20CC11L1	Skill development	R20(1-1)
7	Problem Solving Using C Lab	R20CC11L2	Employability	R20(1-1)
8	Basics in Mechanical and Civil Engineering Lab	R20EE11L6	Skill development	R20(1-1)
9	Differential Equations and Vector Calculus	R20CC1201	Skill development	R20(1-2)
10	Applied Physics	R20CC1205	Skill development	R20(1-2)
11	Electronics Devices and Circuits	R20EE1209	Skill development	R20(1-2)
12	Electrical Circuit Analysis-I	R20EE1213	Skill development	R20(1-2)
13	Data Structures	R20CC1210	Skill development	R20(1-2)
14	Electronics Devices and Circuits Lab	R20EE12L9	Skill development	R20(1-2)
15	Applied Physics Lab	R20CC12L10	Skill development	R20(1-2)
16	Data Structures Lab	R20CC12L11	Employability	R20(1-2)
17	Numerical Methods and Transformations	R20CC2101	Skill development	R20(2-1)
18	Electrical Circuit Analysis-II	R20EE2102	Skill development	R20(2-1)
19	Electrical Machines-I	R20EE2103	Skill development	R20(2-1)
20	Electromagnetic Fields	R20EE2104	Skill development	R20(2-1)
21	Analog Electronics	R20EE2105	Skill development	R20(2-1)
22	Electrical Circuit Analysis Lab	R20EE21L1	Skill development	R20(2-1)
23	Electrical Machines-I Lab	R20EE21L2	Skill development	R20(2-1)
24	Analog Electronics Lab	R20EE21L3	Skill development	R20(2-1)
25	PLC Automation Lab	R20EE21SC1	Employability	R20(2-1)
26	Technical and Communicative English – II	R20CC2201	Employability	R20(2-2)
27	Complex Variables Probability and Statistics	R20CC2202	Skill development	R20(2-2)
28	Control Systems	R20EE2203	Skill development	R20(2-2)
29	Electrical Machines-II	R20EE2204	Skill development	R20(2-2)
30	Digital Electronics	R20EE2205	Employability	R20(2-2)
31	Control System Lab	R20EE22L1	Skill development	R20(2-2)
32	Electrical Machines Lab- II	R20EE22L2	Skill development	R20(2-2)
33	Digital Electronics Lab	R20EE22L3	Skill development	R20(2-2)
34	Numerical Techniques using MATLAB	R20EE22SC1	Skill development	R20(2-2)
35	Problem Solving with Python	R20EE3101	Skill development	R20(3-1)
36	Power Electronics	R20EE3102	Skill development	R20(3-1)
37	Power Generation and Transmission	R20EE3103	Skill development	R20(3-1)
38	Signals and Systems	R20EE3107	Skill development	R20(3-1)
39	Problem Solving with Python Programming Lab	R20EE31L1	Skill development	R20(3-1)
40	Power Electronics Lab	R20EE31L2	Skill development	R20(3-1)
41	Internet of Things	R20EE31SC3	Skill development	R20(3-1)
42	Summer Internship / Community Service Project	R20CC31IN	Employability	R20(3-1)
43	Microprocessor & Microcontrollers	R20EE3201	Skill development	R20(3-2)

44	Power System Analysis	R20EE3202	Skill development	R20(3-2)
45	Measurements & Instrumentation	R20EE3203	Skill development	R20(3-2)
46	Utilization of Electrical Energy	R20EE3206	Skill development	R20(3-2)
47	Hybrid Electric Vehicle	R20CC2OE03	Skill development	R20(3-2)
48	Microprocessors and Microcontrollers Lab	R20EE32L1	Skill development	R20(3-2)
49	Measurements and Instrumentation Lab	R20EE32L2	Skill development	R20(3-2)
50	Power System Simulation Lab	R20EE32L3	Skill development	R20(3-2)
51	English Employability Skills	R20CC32SC1	Employability	R20(3-2)
52	Flexible AC Transmission Systems	R20EE4104	Skill development	R20(4-1)
53	Power System Operation and Control	R20EE4109	Employability	R20(4-1)
54	Switchgear and Protection	R20EE4111	Skill development	R20(4-1)
55	Concept of Smart Grid Technology	R20CC3OE03	Skill development	R20(4-1)
56	Non- Conventional Energy Resources	R20CC4OE03	Employability	R20(4-1)
57	Entrepreneurship & Innovation	R20CC4117	Skill development	R20(4-1)
58	Machine Learning with Python	R20EE41SC1	Skill development	R20(4-1)
59	Internship / Community Service Project	R20CC4HN	Employability	R20(4-1)
M.Tech				
60	Disaster Management	R24MNC102	Skill development	R24(1-1)
61	Electrical Machine Modelling and Analysis	R24MPI102	Skill development	R24(1-1)
62	Analysis of Power Electronic Converters and Inverters	R24MPI103	Skill development	R24(1-1)
63	Power Semiconductor Devices and protection	R24MPI104	Skill development	R24(1-1)
64	Special Machines and Control	R24MPI109	Skill development	R24(1-1)
65	Research Methodology and IPR	R24MCC101	Employability	R24(1-1)
66	Power Electronics Simulation Laboratory	R24MPI1L1	Skill development	R24(1-1)
67	Power Converters Laboratory	R24MPI1L2	Skill development	R24(1-1)
68	Value Education(Audit Course – 1)	R24MCC2AC	Employability	R24(1-1)
69	Control of DC and AC Drives	R24MPI201	Skill development	R24(1-2)
70	Power System Deregulation	R24MPI202	Skill development	R24(1-2)
71	Power Quality	R24MPI204	Skill development	R24(1-2)
72	Custom Power Devices	R24MPI207	Skill development	R24(1-2)
73	Electric Drives Simulation Laboratory	R24MPI2L1	Skill development	R24(1-2)
74	Electric Drives Laboratory	R24MPI2L2	Skill development	R24(1-2)
75	Mini Project with Seminar	R24MCC121	Employability	R24(1-2)
76	Audit Course – 2	R24MCC3AC	Employability	R24(1-2)
77	Hybrid Electric Vehicles	R24MPI302	Skill development	R24(2-1)
78	Business Analytics	R24MCC310	Skill development	R24(2-1)



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1	Engineering	R20CC1103	Skill development	R20(1-1)
2	Chemistry	R20CC1102	Employability	R20(1-1)
3	Linear Algebra and Calculus	R20CC1101	Skill development	R20(1-1)
4	Technical and Communicative English-I	R20CC1107	Skill development	R20(1-1)
5	Engineering Mechanics	R20ME1106	Skill development	R20(1-1)
6	Problem Solving using Python	R20CC11L1	Skill development	R20(1-1)
7	Soft skills and Communication Skills Lab-1	R20CC11L5	Skill development	R20(1-1)
8	Engineering Chemistry Lab	R20ME11L3	Employability	R20(1-1)
9	Problem Solving using Python Lab	R20CE2105	Skill development	R20(1-1)
10	Differential Equations and Vector Calculus	R20CC1201	Skill development	R20(1-2)
11	Engineering Physics	R20CC1203	Skill development	R20(1-2)
12	Engineering Drawing	R20CC1207	Skill development	R20(1-2)
13	Elements of Electrical and Electronics Engg.	R20ME1214	Skill development	R20(1-2)
14	Material Science and Metallurgy	R20ME1211	Skill development	R20(1-2)
15	Elements of Electrical and Electronics Engg. Lab	R20CC12L7	Skill development	R20(1-2)
16	Engineering Physics Lab	R20CC12L5	Skill development	R20(1-2)
17	Engineering Workshop	R20CC12L4	Skill development	R20(1-2)
18	Constitution of India (MC)	R20CC12MC2	Skill development	R20(1-2)
19	Numerical Methods and Transformations	R20CC2101	Skill development	R20(2-1)
20	Fluid Mechanics and Hydraulic Machinery	R20ME2102	Skill development	R20(2-1)
21	Metrology and Instrumentation	R20ME2103	Skill development	R20(2-1)
22	Thermodynamics	R20ME2104	Skill development	R20(2-1)
23	Mechanics of Solids	R20ME2105	Employability	R20(2-1)
24	FMHM Lab	R20ME21L1	Skill development	R20(2-1)
25	MOS and Metallurgy Lab	R20ME21L2	Skill development	R20(2-1)
26	Metrology and Instrumentation Lab	R20ME21L3	Employability	R20(2-1)
27	Solid Modelling	R20ME21SC1	Skill development	R20(2-1)
28	Environmental Studies	R20CC21MC1	Skill development	R20(2-1)
29	Applied Thermodynamics	R20ME2204	Skill development	R20(2-2)
30	Complex Variables Probability and Statistics	R20CC2202	Employability	R20(2-2)
31	Kinematics of Machinery	R20ME2205	Skill development	R20(2-2)
32	Manufacturing Technology	R20ME2203	Skill development	R20(2-2)
33	Technical and Communicative English –II	R20CC2201	Skill development	R20(2-2)
34	Machine Drawing Lab	R20ME22L1	Employability	R20(2-2)
35	Applied Thermodynamics Lab	R20ME22L2	Employability	R20(2-2)
36	Manufacturing Technology Lab	R20ME22L3	Employability	R20(2-2)
37	Computer Aided Engineering Practice	R20ME22SC2	Skill development	R20(2-2)
38	Artificial Intelligence and Machine Learning	R20ME3101	Employability	R20(3-1)
39	Heat Power Engineering	R20ME3102	Skill development	R20(3-1)
40	Design of Machine Elements-I	R20ME3103	Skill development	R20(3-1)
41	RPT &3D Printing (Other than ME)	R20CC10E06	Skill development	R20(3-1)
42	Operations Research	R20CC10E07	Skill development	R20(3-1)
43	Automobile Engineering	R20ME3105	Employability	R20(3-1)
44	Refrigeration & Air Conditioning	R20ME3106	Skill development	R20(3-1)
45	Metal Cutting & Machine Tools	R20ME3107	Skill development	R20(3-1)
46	Work Study	R20ME3108	Skill development	R20(3-1)
47	Artificial Intelligence and Machine Learning Lab	R20ME31L1	Skill development	R20(3-1)

48	Heat power Engineering Lab	R20ME31L2	Skill development	R20(3-1)
49	Robotics & 3D Printing Lab	R20ME31SC3	Skill development	R20(3-1)
50	PE&HV	R20CC31MC01	Skill development	R20(3-1)
51	Internship/ Community Service Project	R20CC31IN	Skill development	R20(3-1)
52	Design of Machine Elements-II	R20ME3201	Employability	R20(3-2)
53	Heat Transfer	R20ME3202	Employability	R20(3-2)
54	Dynamics of Machinery	R20ME3203	Employability	R20(3-2)
55	Advanced Mechanics of Solids	R20ME3204	Employability	R20(3-2)
56	Nonconventional Sources of energy	R20ME3205	Employability	R20(3-2)
57	Quality concepts in Design	R20ME3206	Skill development	R20(3-2)
58	Robotics & Applications	R20ME3207	Skill development	R20(3-2)
59	Industrial Engineering & Management	R20ME3208	Skill development	R20(3-2)
60	Industrial Robotics	R20CC2OE05	Skill development	R20(3-2)
61	Heat Transfer Lab	R20ME32L1	Skill development	R20(3-2)
62	Machine Tools & Machine Dynamics Lab	R20ME32L2	Skill development	R20(3-2)
63	Pneumatics & HVAC Lab	R20ME32L3	Skill development	R20(3-2)
64	English for Employability Skills	R20CC32SC1	Skill development	R20(3-2)
65	Essence of Indian traditional Knowledge	R20CC32MC1	Employability	R20(3-2)
66	Digital Manufacturing	R20ME4102	Employability	R20(4-1)
67	Power Plant Engineering	R20ME4104	Employability	R20(4-1)
68	Optimization Techniques	R20ME4105	Employability	R20(4-1)
69	Total Quality Management	R20ME4106	Employability	R20(4-1)
70	Automotive Vehicles	R20CC3OE05	Employability	R20(4-1)
71	Nano Technology	R20CC3OE06	Employability	R20(4-1)
72	Mechatronics & Simulation Lab	R20ME41SC4	Skill development	R20(4-1)
73	Internship/ Community Service Project	R20CC41IN	Skill development	R20(4-1)
74	MOOCS Course	R20CC41MC	Skill development	R20(4-1)
75	Major Project Internship	R20CC42PW	Skill development	R20(4-2)
76	LINEAR ALGEBRA & CALCULUS	R23CC1101	Employability	R23(1-1)
77	INTRODUCTION TO PROGRAMMING	R23CC1102	Employability	R23(1-1)
78	ENGINEERING PHYSICS	R23CC1106	Employability	R23(1-1)
79	BASIC ELECTRICAL & ELECTRONICS ENGINEERING	R23CC1107	Employability	R23(1-1)
80	ENGINEERING GRAPHICS	R23CC1108	Skill development	R23(1-1)
81	COMPUTER PROGRAMMING LAB	R23CC11L1	Skill development	R23(1-1)
82	IT WORKSHOP	R23CC11L5	Skill development	R23(1-1)
83	ENGINEERING PHYSICS LAB	R23CC11L6	Skill development	R23(1-1)
84	EEE WORKSHOP	R23CC11L7	Skill development	R23(1-1)
85	DIFFERENTIAL EQUATIONS & VECTOR CALCULUS	R23CC1201	Employability	R23(1-2)
86	COMMUNICATIVE ENGLISH	R23CC1206	Employability	R23(1-2)
87	ENGINEERING CHEMISTRY	R23CC1208	Employability	R23(1-2)
88	ENGINEERING MECHANICS	R23CC1209	Employability	R23(1-2)
89	BASIC CIVIL & MECHANICAL ENGINEERING	R23CC1212	Employability	R23(1-2)
90	ENGINEERING WORKSHOP	R23CC12L9	Employability	R23(1-2)
91	ENGINEERING MECHANICS LAB	R23ME12L7	Employability	R23(1-2)
92	ENGINEERING CHEMISTRY LAB	R23CC12L11	Employability	R23(1-2)
93	COMMUNICATIVE ENGLISH LAB	R23CC12L12	Skill development	R23(1-2)
94	HEALTH AND WELLNESS, YOGA AND SPORTS	R23CC12MC1	Skill development	R23(1-2)
95	Numerical Methods and Transform Techniques	R23CC2110	Skill development	R23(2-1)
96	Universal Human Values- Understanding Harmony & Ethical Human Conduct	R23CC2102	Employability	R23(2-1)
97	Thermodynamics	R23ME2103	Employability	R23(2-1)
98	Mechanics of Solids	R23ME2104	Employability	R23(2-1)

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99	Material Science and Metallurgy	R23ME2105	Skill development	R23(2-1)
100	Mechanics of Solids and Materials Science Lab	R23ME21L1	Skill development	R23(2-1)
101	Computer-aided Machine Drawing	R23ME21L2	Skill development	R23(2-1)
102	Python programming Lab	R23ME21L3	Skill development	R23(2-1)
103	Embedded Systems & IoT	R23ME21L4	Skill development	R23(2-1)
104	Environmental Studies	R23CC21MC	Skill development	R23(2-1)
105	Industrial Management	R23ME2201	Employability	R23(2-2)
106	Complex Variables, Probability and Statistics	R23ME2202	Employability	R23(2-2)
107	Manufacturing processes	R23ME2203	Employability	R23(2-2)
108	Fluid Mechanics & Hydraulic Machines	R23ME2204	Employability	R23(2-2)
109	Theory of Machines	R23ME2205	Employability	R23(2-2)
110	Fluid Mechanics & Hydraulic Machines Lab	R23ME22L1	Employability	R23(2-2)
111	Manufacturing processes Lab	R23ME22L2	Employability	R23(2-2)
112	Soft Skills	R23ME22L4	Skill development	R23(2-2)
113	Design Thinking & Innovation	R23CC22L3	Skill development	R23(2-2)




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S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2024-25)
1	RESEARCH METHODOLOGY AND IPR	R24MCC101	Skill development	R24(1-1)
2	ADVANCED MECHANICS OF SOLIDS	R24MMD102	Employability	R24(1-1)
3	MECHANICAL VIBRATIONS	R24MMD103	Skill development	R24(1-1)
4	DESIGN FOR MANUFACTURING AND ASSEMBLY	R24MMD107	Skill development	R24(1-1)
5	MATERIAL TECHNOLOGY	R24MMD110	Employability	R24(1-1)
6	MACHINE DYNAMICS LAB	R24MMD1L1	Skill development	R24(1-1)
7	DESIGN PRACTICE LAB-I	R24MMD1L2	Skill development	R24(1-1)
8	FINITE ELEMENT METHODS AND APPLICATIONS	R24MMD201	Employability	R24(1-2)
9	EXPERIMENTAL STRESS ANALYSIS	R24MMD202	Skill development	R24(1-2)
10	CONDITION MONITORING	R24MMD205	Skill development	R24(1-2)
11	MECHANICS OF COMPOSITE MATERIALS	R24MMD208	Skill development	R24(1-2)
12	PNEUMATICS LAB	R24MMD2L1	Employability	R24(1-2)
13	DESIGN PRACTICE LAB-II	R24MMD2L2	Skill development	R24(1-2)
14	MINI PROJECT WITH SEMINAR	R24MMD2MPS	Skill development	R24(1-2)
15	VALUE EDUCATION	R24MCC2AC	Skill development	R20(1-2)
16	ANALYSIS AND SYNTHESIS OF MECHANISMS	R24MMD301	Skill development	R20(2-1)
17	PHYTHON PROGRAMING	R24MCC311	Skill development	R20(2-1)
18	DISSERTATION-I	R24MMD3PW	Skill development	R20(2-1)



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1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2024-25)
1	Advanced Heat Transfer	24MTE1TH01	Skill development	R24(1-1)
2	Advanced Fluid Mechanics	24MTE1TH02	Employability	R24(1-1)
3	AI&ML for Mechanical Engineering	24MTE1TH03	Skill development	R24(1-1)
4	Advanced Power Plant Engineering	24MTE1TH04	Skill development	R24(1-1)
5	Cryogenic Engineering	24MTE1PE05	Skill development	R24(1-1)
6	Turbo Machines	24MTE1PE06	Employability	R24(1-1)
7	Advanced Thermodynamics & Combustion	24MTE1PE07	Skill development	R24(1-1)
8	Renewable Sources of Energy	24MTE1PE08	Employability	R24(1-1)
9	Fuel Cells and Hydrogen Technologies	24MTE1PE09	Employability	R24(1-1)
10	Analysis of IC Engines	24MTE1PE10	Skill development	R24(1-1)
11	Jet Propulsion and Rocket Engineering	24MTE1PE11	Skill development	R24(1-1)
12	Thermal Engineering Lab	24MTE1LB01	Skill development	R24(1-1)
13	Computational Laboratory	24MTE1LB02	Skill development	R24(1-1)
14	Seminar I	24MTE1LB03	Skill development	R24(1-1)
15	Computational Fluid Dynamics	24MTE2TH01	Skill development	R24(1-1)
16	Experimental Analysis and Instrumentation	24MTE2TH02	Employability	R20(1-2)
17	Advanced Finite Element Methods	24MTE2TH03	Skill development	R20(1-2)
18	HVAC Systems	24MTE2TH04	Skill development	R20(1-2)
19	Fundamentals Of Microfluidics	24MTE2PE31	Skill development	R20(1-2)
20	Industrial Food Preservation	24MTE2PE32	Skill development	R20(1-2)
21	Industrial Hydraulics and Pneumatics	24MTE2PE33	Employability	R20(1-2)
22	Thermal Management in EV Battery and Fuel Cell System	24MTE2PE41	Skill development	R20(1-2)
23	Design of Heat Transfer Equipment	24MTE2PE42	Skill development	R20(1-2)
24	Introduction to Quantum Technologies	24MTE2PE43	Skill development	R20(1-2)
25	Computational Fluid Dynamics Lab	24MTE2LB01	Skill development	R20(1-2)
26	Thermal Simulation Laboratory	24MTE2LB02	Skill development	R20(1-2)
27	Seminar II	24MTE2LB03	Skill development	R20(2-1)
28	Research Methodology and IPR/Swayam 12 Week	24MMD3CV	Skill development	R20(2-1)
29	MOOC Course RM&IPR	24MMD3MO	Skill development	R20(2-1)
30	Summer Internship/Industrial Training (8-10 Weeks)	24MMD3SI	Skill development	R20(2-1)

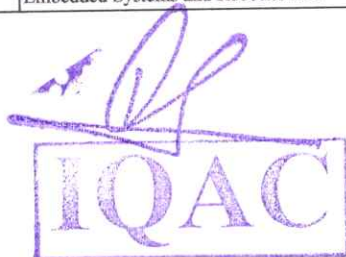


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1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

LIST OF NEW COURSES DURING (2024-25) Electronics and Communication Engineering

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)	Link to the relevant document
1	Linear Algebra and Calculus	R20CC1102	Skill development	R20(1-1)	
2	Engineering Chemistry	R20CC1103	Skill development	R20(1-1)	
3	Technical and Communicative English-I	R20CC1101	Skill development	R20(1-1)	
4	Engineering Graphics	R20EC1108	Skill development	R20(1-1)	
5	Problem solving using C	R20CC1105	Skill development	R20(1-1)	
6	Soft Skills and Communication Skills Lab-1	R20CC11L1	Skill development	R20(1-1)	
7	Engineering Chemistry Lab	R20CC11L5	Skill development	R20(1-1)	
8	Problem solving using C Lab	R20CC11L2	Skill development	R20(1-1)	
9	Differential Equations and Vector Calculus	R20CC1201	Skill development	R20(1-2)	
10	Applied Physics	R20CC1205	Skill development	R20(1-2)	
11	Problem Solving using Python	R20EC1217	Skill development	R20(1-2)	
12	Network Analysis	R20EC1215	Skill development	R20(1-2)	
13	Data Structures	R20CC1210	Skill development	R20(1-2)	
	Data Structures Lab	R20CC12L11	Skill development	R20(1-2)	
15	Applied Physics Lab	R20CC12L10	Skill development	R20(1-2)	
16	Problem Solving using Python Lab	R20EC12L1	Skill development	R20(1-2)	
17	Constitution of India (Zero Credit Course)	R20CC12MC2	Skill development	R20(1-2)	
18	Numerical Methods and Transformations	R20CC2101	Skill development	R20(2-1)	
19	Electronic Devices and Circuits	R20EC2102	Skill development	R20(2-1)	
20	Signals and Systems	R20EC2103	Skill development	R20(2-1)	
21	Switching Theory and Logic Design	R20EC2104	Skill development	R20(2-1)	
22	Linear Control Systems	R20EC2105	Skill development	R20(2-1)	
23	Electronic Devices and Circuits Lab	R20EC21L1	Skill development	R20(2-1)	
24	Signals and Systems Lab	R20EC21L2	Skill development	R20(2-1)	
25	Digital Logic Design Lab	R20EC21L3	Skill development	R20(2-1)	
26	Design of Systems using Arduino and Raspberry Pi Lab	R20EC21SC1	Skill development/Employability	R20(2-1)	
27	Environmental Studies (NonCredit Course)	R20CC21MC1	Skill development	R20(2-1)	
28	Internet of Things	R20EC2202	Skill development	R20(2-2)	
29	Analog and Digital Communications	R20EC2203	Skill development	R20(2-2)	
30	Electronic Circuits and Pulse Circuits	R20EC2204	Skill development	R20(2-2)	
31	Electromagnetic Waves and Transmission Lines	R20EC2205	Skill development	R20(2-2)	
	Technical and Communicative English-II	R20CC2201	Skill development	R20(2-2)	
33	Internet of Things Lab	R20EC22L1	Skill development	R20(2-2)	
34	Analog and Digital Communications Lab	R20EC22L2	Skill development	R20(2-2)	
35	Electronic Circuits and Pulse Circuits Lab	R20EC22L3	Skill development	R20(2-2)	
36	Design and Simulation of Electronic Circuits	R20EC22SC1	Skill development	R20(2-2)	
37	Summer Internship / Community Service Project (Mandatory)		Skill development		
38	Linear & Digital IC Applications	R20EC3101	Skill development	R20(3-1)	
39	Antennas and Wave Propagation	R20EC3102	Skill development	R20(3-1)	
40	Digital Signal Processing	R20EC3103	Skill development	R20(3-1)	
41	Principles of Signals, Systems & Communications (Other than ECE)	R20EC3104	Skill development	R20(3-1)	
42	Introduction to Data Science	R20EC3105	Skill development	R20(3-1)	
43	Electronic Measurements and Instrumentation	R20EC3106	Skill development	R20(3-1)	
44	Communication and Computer Networks	R20EC3107	Skill development	R20(3-1)	
45	Statistical Methods in AI	R20EC3108	Skill development	R20(3-1)	
46	Signals and Transform Techniques	R20EC3109	Skill development	R20(3-1)	
47	DSP Lab	R20EC31L1	Skill development	R20(3-1)	
48	LDICA Lab	R20EC31L2	Skill development	R20(3-1)	
49	Embedded Systems and Robotics Lab	R20EC31SC3	Skill development	R20(3-1)	




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50	Professional Ethics and Human Values	R20CC31MC01	Skill development	R20(3-1)
51	Summer Internship/ Community Service Project	R20CC31IN	Skill development/Employ ability	R20(3-1)
52	Micro wave and Optical communications	R20EC3201	Skill development	R20(3-2)
53	VLSI Design	R20EC3202	Skill development	R20(3-2)
54	Microprocessors and Microcontrollers	R20EC3203	Skill development	R20(3-2)
55	Data Acquisition and Transmission	R20EC3204	Skill development	R20(3-2)
56	Satellite Communications	R20EC3205	Skill development	R20(3-2)
57	Introduction to Machine Learning	R20EC3206	Skill development	R20(3-2)
58	Digital Image Processing	R20EC3207	Skill development	R20(3-2)
59	Fundamentals of Image Processing (Other than ECE)	R20CC2OE07	Skill development	R20(3-2)
60	Global Positioning System (GPS)	R20CC2OE08	Skill development	R20(3-2)
61	MP&MC Lab	R20EC32L1	Skill development	R20(3-2)
62	VLSI Lab	R20EC32L2	Skill development	R20(3-2)
63	MW&OC Lab	R20EC32L3	Skill development	R20(3-2)
64	English Employability Skills	R20CC32SC1	Skill development/Employ ability	R20(3-2)
	Essence of Indian Traditional Knowledge	R20CC32MC1	Skill development	R20(3-2)
66	PC based Instrumentation	R20EC4101	Skill development	R20(4-1)
67	Cellular and Mobile Communication	R20EC4102	Skill development	R20(4-1)
68	Introduction to Deep Learning	R20EC4103	Skill development	R20(4-1)
69	Speech Processing	R20EC4104	Skill development	R20(4-1)
70	Bio Medical Instrumentation	R20EC4105	Skill development	R20(4-1)
71	Radar Systems	R20EC4106	Skill development	R20(4-1)
72	Soft Computing Techniques	R20EC4107	Skill development	R20(4-1)
73	DSP Architectures	R20EC4108	Skill development	R20(4-1)
74	Analytical Instrumentation	R20EC4109	Skill development	R20(4-1)
75	Advanced communication Technologies	R20EC4110	Skill development	R20(4-1)
76	Edge Computing	R20EC4111	Skill development	R20(4-1)
77	Multimedia Signal Processing	R20EC4112	Skill development	R20(4-1)
78	Introduction to Micro Processors & Micro Controllers (Other than ECE)	R20CC3OE07	Skill development	R20(4-1)
79	Nano Electronics	R20CC3OE08	Skill development	R20(4-1)
80	Introduction to Embedded Systems (Other than ECE)	R20CC4OE07	Skill development	R20(4-1)
81	Embedded and Real time Operating System	R20CC4OE08	Skill development	R20(4-1)
82	Business Management Concepts for Engineers	R20CC4101	Skill development	R20(4-1)
	Entrepreneurship and Innovation	R20CC4117	Skill development	R20(4-1)
84	Python Programming for Deep Learning/Mobile App Development	R20EC41SC1	Skill development	R20(4-1)
85	Internship/ Community Service Project	R20CC41IN	Skill development/Employ ability	R20(4-1)
86	MOOCS	R20CC41MC	Skill development	R20(4-1)
87	Internship and Project Work	R20CC42PW	Skill development/Employ ability	R20(4-2)
88	Linear Algebra and Calculus	R23CC1101	Skill development	R23(1-1)
89	Introduction To Programming	R23CC1102	Skill development	R23(1-1)
90	Engineering Physics	R23CC1106	Skill development	R23(1-1)
91	Basic Electrical & Electronics Engineering	R23CC1107	Skill development	R23(1-1)
92	Engineering Graphics	R23CC1108	Skill development	R23(1-1)
93	Computer Programming Lab	R23CC11L1	Skill development/Employ ability	R23(1-1)
94	It Workshop	R23CC11L5	Skill development/Employ ability	R23(1-1)
95	Engineering Physics Lab	R23CC11L6	Skill development	R23(1-1)

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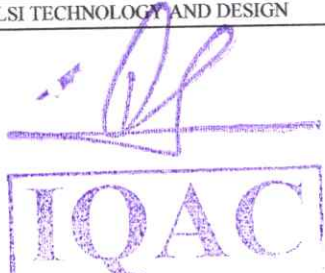
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96	Eee Workshop	R23CC11L7	Skill development	R23(1-1)
97	Nss/Ncc/Scouts&Gui des/Community Service	R23CC11MC 2	Skill development	R23(1-1)
98	Differential Equations& Vector Calculus	R23CC1201	Skill development	R23(1-2)
99	Communicative English	R23CC1206	Skill development	R23(1-2)
100	Chemistry	R23CC1207	Skill development	R23(1-2)
101	Network Analysis	R23EC1211	Skill development	R23(1-2)
102	Basic Civil& Mechanical Engineering	R23CC1212	Skill development	R23(1-2)
103	Na & Simulation Lab	R23EC12L6	Skill development	R23(1-2)
104	Engineering Workshop	R23CC12L9	Skill development	R23(1-2)
105	Chemistry Lab	R23CC12L10	Skill development	R23(1-2)
106	Communicative English Lab	R23CC12L12	Skill development/Employ ability	R23(1-2)
107	Health And Wellness, Yoga And Sports	R23CC12MC1	Skill development	R23(1-2)
108	Probability theory and stochastic Process	R23EC2101	Skill development	R23(2-1)
109	Human Conduct	R23CC2102	Skill development	R23(2-1)
110	Signals and Systems	R23EC2103	Skill development	R23(2-1)
111	Electronic Devices and Circuits	R23EC2104	Skill development	R23(2-1)
112	Switching Theory and Logic Design	R23EC2105	Skill development	R23(2-1)
113	Electronic Devices and Circuits Lab	R23EC21L1	Skill development	R23(2-1)
114	Signals and Systems Lab	R23EC21L2	Skill development	R23(2-1)
115	Data Structures using Python	R23EC21L3	Skill development	R23(2-1)
116	Managerial Economics and Financial Analysis	R23CC2201	Skill development	R23(2-2)
117	Linear Control Systems	R23EC2202	Skill development	R23(2-2)
118	Electromagnetic Waves and Transmission Lines	R23EC2203	Skill development	R23(2-2)
119	Electronic Circuit Analysis	R23EC2204	Skill development	R23(2-2)
120	Analog Communications	R23EC2205	Skill development	R23(2-2)
121	Switching Theory and Logic Design lab	R23EC22L1	Skill development	R23(2-2)
122	Electronic Circuit Analysis lab	R23EC22L2	Skill development	R23(2-2)
123	Soft Skills	R23EC22L4	Skill development	R23(2-2)
124	Design Thinking & Innovation	R23EC22L3	Skill development	R23(2-2)
125	Environmental Studies	R23EC22MC	Skill development	R23(2-2)
126	MOOCS		Skill development	
127	Summer Internship / Community Service Project (Mandatory)		Skill development	
128	DIGITAL SYSTEM DESIGN	19MDE1TH01	Skill development	R19(1-SEM)
129	EMBEDDED REAL TIME OPERATING SYSTEMS	19MDE1TH08	Skill development	R19(1-SEM)
130	OPTICAL COMMUNICATION TECHNOLOGY	19MDE1TH09	Skill development	R19(1-SEM)
131	DESIGN AND SIMULATION LABORATORY	19MEC1LB01	Skill development	R19(1-SEM)
132	VLSI TECHNOLOGY AND DESIGN	19MEC1TH02	Skill development	R19(1-SEM)
133	DIGITAL DATA COMMUNICATIONS	19MEC1TH03	Skill development	R19(1-SEM)
134	WIRELESS COMMUNICATION AND NETWORKS	19MEC1TH06	Skill development	R19(1-SEM)
135	ADVANCED COMMUNICATIONS LABORATORY	19MDE2LB01	Skill development	R19(2-SEM)
136	DETECTION AND ESTIMATION THEORY	19MDE2TH04	Skill development	R19(2-SEM)
137	ADVANCED COMPUTER ARCHITECTURE	19MDE2TH05	Skill development	R19(2-SEM)
138	ADVANCED DIGITAL COMMUNICATION	19MDE2TH11	Skill development	R19(2-SEM)
139	CODING THEORY AND APPLICATIONS	19MEC2TH01	Skill development	R19(2-SEM)
140	DSP PROCESSORS AND ARCHITECTURES	19MEC2TH02	Skill development	R19(2-SEM)
141	CMOS ANALOG AND DIGITAL IC DESIGN	19MEC2TH03	Skill development	R19(2-SEM)
142	COMPREHENSIVE VIVA-VOCE	19MDE3CV	Skill development	R19(3-SEM)
143	SEMINAR	19MDE3SM	Skill development	R19(3-SEM)
144	PROJECT WORK	19MDE4PW	Skill development/Employ ability	R19(4-SEM)
145	EMBEDDED REAL TIME OPERATING SYSTEMS	19MDE1TH08	Skill development	R19(1-SEM)
146	OPTICAL COMMUNICATION TECHNOLOGY	19MDE1TH09	Skill development	R19(1-SEM)
147	DESIGN AND SIMULATION LABORATORY	19MEC1LB01	Skill development	R19(1-SEM)
148	VLSI TECHNOLOGY AND DESIGN	19MEC1TH02	Skill development	R19(1-SEM)

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149	DIGITAL DATA COMMUNICATIONS	19MEC1TH03	Skill development	R19(1-SEM)
150	WIRELESS COMMUNICATION AND NETWORKS	19MEC1TH06	Skill development	R19(1-SEM)
151	ADVANCED COMMUNICATIONS LABORATORY	19MDE2LB01	Skill development	R19(2-SEM)
152	DETECTION AND ESTIMATION THEORY	19MDE2TH04	Skill development	R19(2-SEM)
153	ADVANCED COMPUTER ARCHITECTURE	19MDE2TH05	Skill development	R19(2-SEM)
154	ADVANCED DIGITAL COMMUNICATION	19MDE2TH11	Skill development	R19(2-SEM)
155	CODING THEORY AND APPLICATIONS	19MEC2TH01	Skill development	R19(2-SEM)
156	DSP PROCESSORS AND ARCHITECTURES	19MEC2TH02	Skill development	R19(2-SEM)
157	CMOS ANALOG AND DIGITAL IC DESIGN	19MEC2TH03	Skill development	R19(2-SEM)
158	COMPREHENSIVE VIVA-VOCE	19MDE3CV	Skill development	R19(3-SEM)
159	SEMINAR	19MDE3SM	Skill development	R19(3-SEM)
160	PROJECT WORK	19MDE4PW	Skill development/Employ ability	R19(4-SEM)
161	RTL Simulation and Synthesis with PLDs	R24MVL102	Skill development	R24(1-SEM)
162	Microcontrollers and Programmable Digital Signal Processors	R24MVL103	Skill development	R24(1-SEM)
163	Digital Signal and Image Processing		Skill development	R24(1-SEM)
164	Parallel Processing		Skill development	R24(1-SEM)
165	VLSI signal processing	R24MVL106	Skill development	R24(1-SEM)
166	VLSI Technology and Design		Skill development	R24(1-SEM)
167	Programming Languages for Embedded Systems		Skill development	R24(1-SEM)
168	System Design with Embedded		Skill development	R24(1-SEM)
169	CAD of Digital System	R24MVL110	Skill development	R24(1-SEM)
170	Statistical Signal Processing		Skill development	R24(1-SEM)
171	Research methodology and IPR	R24MCC101	Skill development	R24(1-SEM)
172	RTL Simulation and Synthesis with PLDs La		Skill development	R24(1-SEM)
173	Microcontrollers and Programmable Digital Signal Processors Lab		Skill development	R24(1-SEM)
174	Disaster Management (Audit course-1)	R24MNC102	Skill development	R24(1-SEM)
175	Analog and Digital CMOS VLSI Design	R24MVL201	Skill development	R24(2-SEM)
176	Real Time Operating Systems	R24MVL202	Skill development	R24(2-SEM)
177	Memory Architectures		Skill development	R24(2-SEM)
178	SoC Design	R24MVL204	Skill development	R24(2-SEM)
179	Low power VLSI Design		Skill development	R24(2-SEM)
180	CMOS Analog & Digital IC Design		Skill development	R24(2-SEM)
181	Communication Buses and Interfaces		Skill development	R24(2-SEM)
182	Network Security and Cryptography	R24MVL208	Skill development	R24(2-SEM)
183	Physical design automation		Skill development	R24(2-SEM)
184	Analog and Digital CMOS VLSI Design Lab		Skill development	R24(2-SEM)
185	Real Time Operating Systems Lab		Skill development	R24(2-SEM)
186	Mini Project		Skill development	R24(2-SEM)
187	VALUE EDUCATION (Audit Course – 2)	R24MCC2AC	Skill development	R24(2-SEM)
188	IOT and its Applications		Skill development	R24(2-SEM)
189	Hardware Software co- design	R24MVL301	Skill development	R24(3-SEM)
190	Artificial Intelligence		Skill development	R24(3-SEM)
191	Digital Design Using HDL		Skill development	R24(3-SEM)
192	Business Analytics	R24MCC310	Skill development	R24(3-SEM)
193	Industrial Safety		Skill development	R24(3-SEM)
194	Operations Research		Skill development	R24(3-SEM)
195	Cost Management of Engineering Projects		Skill development	R24(3-SEM)
196	Composite Materials		Skill development	R24(3-SEM)
197	Waste to Energy		Skill development	R24(3-SEM)
198	Dissertation Phase -I /Industrial Project		Skill development/Employ	R24(4-SEM)



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LIST OF NEW COURSES DURING (2024-25) COMPUTER SCIENCE AND ENGG.(CSE)

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)	Link to the relevant document
1	Problem Solving Using C	R20CC1105	Skill development	R20(1-1)	https://www.nrtec.in/wp-content/uploads/2025/09/FINAL-R23-CSE-SYLLABUS-I-II-III-Years-29-8-2025.pdf
2	Soft Skills and Communication Skills Lab - I	R20CC11L1	Skill development	R20(1-1)	
3	Problem Solving Using C Lab	R20CC11L2	Skill development	R20(1-1)	
4	LINUX Programming Lab	R20CS11L8	Skill development	R20(1-1)	
5	Numerical Methods and Statistics	R20CC1202	Employability	R20(1-2)	
6	Problem Solving Using Python	R20CC1206	Skill development	R20(1-2)	
7	R Programming Lab	R20CC12L3	Skill development	R20(1-2)	
8	Problem Solving Using Python Lab	R20CC12L12	Skill development	R20(1-2)	
9	CSE Workshop	R20CS12L13	Skill development	R20(1-2)	
10	Mathematical Foundations of Computer Science	R20CC2102	Skill development	R20(2-1)	
11	OOPS through Java	R20CC2103	Skill development	R20(2-1)	
12	Data Structures	R20CC2104	Skill development	R20(2-1)	
13	Computer Organization	R20C12101	Skill development	R20(2-1)	
14	Front End Web Technologies	R20CC2105	Skill development	R20(2-1)	
15	Data Structures Lab	R20CC21L1	Skill development	R20(2-1)	
16	OOPS through Java Lab	R20CC21L2	Skill development	R20(2-1)	
17	Front End Web Technologies Lab	R20CC21L3	Skill development	R20(2-1)	
18	Data Science Lab	R20CC21SC1	Skill development	R20(2-1)	
19	Database Management Systems	R20CC2203	Skill development	R20(2-2)	
20	Formal Languages and Automata Theory	R20CS2202	Skill development	R20(2-2)	
21	Database Management Systems Lab	R20CC22L1	Skill development	R20(2-2)	
22	Software Engineering and UML Lab	R20CS22L3	Skill development	R20(2-2)	
23	Mobile Application Development Lab	R20CC22L2	Skill development	R20(2-2)	
24	Artificial Intelligence	R20CS22SC1	Skill development	R20(2-2)	
25	Design and Analysis of Algorithms	R20CC3103	Skill development	R20(3-1)	
26	Computer Networks	R20CC3104	Skill development	R20(3-1)	
27	Compiler Design	R20CS3105	Skill development	R20(3-1)	
28	Operating Systems	R20CC3101	Skill development	R20(3-1)	
29	Data Warehousing and Data Mining	R20CC3102	Skill development	R20(3-1)	
30	DAA and CD Lab	R20CS31L3	Skill development	R20(3-1)	
31	CN and OS Lab	R20CC31L2	Skill development	R20(3-1)	
32	Summer Internship / Community Service Project	R20CC31MC02	Employability	R20(3-1)	
33	Machine Learning	R20CC3204	Skill development	R20(3-2)	
34	Advanced Java and Web Technologies	R20CC3205	Skill development	R20(3-2)	
35	Cryptography and Network Security	R20CC3201	Skill development	R20(3-2)	
36	Mobile Computing	R20CC3202	Skill development	R20(3-2)	
37	Advanced Java and Web Technologies Lab	R20CC32L1	Skill development	R20(3-2)	
38	Machine Learning Lab	R20CC32L2	Skill development	R20(3-2)	
39	Software Lab	R20CC32L3	Skill development	R20(3-2)	
40	Internet of Things	R20CC32SC4	Skill development	R20(3-2)	
41	Cyber Security	R20CS4107	Skill development	R20(4-1)	
42	DevOps	R20CC4111	Skill development	R20(4-1)	
43	Agile with SCRUM	R20CC41SC1	Skill development	R20(4-1)	
44	Summer Internship / Community Service Project	R20CC41IN	Skill development	R20(4-1)	
45	Major Project & Internship	R20CC42PW	Employability	R20(4-2)	
46	LINEAR ALGEBRA & CALCULUS	R23CC1101	Employability	R23(1-1)	
47	INTRODUCTION TO PROGRAMMING	R23CC1102	Skill development	R23(1-1)	
48	COMPUTER PROGRAMMING LAB	R23CC11L1	Skill development	R23(1-1)	
49	ENGINEERING WORKSHOP	R23CC11L3	Skill development	R23(1-1)	
50	DIFFERENTIAL EQUATIONS & VECTOR CALCULUS	R23CC1201	Skill development	R23(1-2)	
51	DATA STRUCTURES	R23CC1202	Skill development	R23(1-2)	
52	ENGINEERING GRAPHICS	R23CC1204	Skill development	R23(1-2)	
53	DATA STRUCTURES LAB	R23CC12L1	Skill development	R23(1-2)	
54	IT WORKSHOP	R23CC12L2	Skill development	R23(1-2)	
55	ENGINEERING WORKSHOP	R23CC12L3	Skill development	R23(1-2)	
56	Discrete Mathematics & Graph Theory	R23CC2101	Employability	R23(2-1)	
57	Digital Logic & Computer Organization	R23CC2103	Skill development	R23(2-1)	

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58	Advanced Data Structures & Algorithm Analysis	R23CC2104	Skill development	R23(2-1)
59	Object Oriented Programming Through Java	R23CC2105	Skill development	R23(2-1)
60	Advanced Data Structures and Algorithm Analysis Lab	R23CC21L1	Skill development	R23(2-1)
61	Object Oriented Programming Through Java Lab	R23CC21L2	Skill development	R23(2-1)
62	Python Programming	R23CC21L3	Skill development	R23(2-1)
63	Probability & Statistics	R23CC2202	Employability	R23(2-2)
64	Operating Systems	R23CC2203	Skill development	R23(2-2)
65	Database Management Systems	R23CC2204	Skill development	R23(2-2)
66	Software Engineering	R23CC2205	Skill development	R23(2-2)
67	Operating Systems Lab	R23CS22L4	Skill development	R23(2-2)
68	Database Management Systems Lab	R23CC22L1	Skill development	R23(2-2)
69	Full Stack Development -I	R23CC22L2	Skill development	R23(2-2)
70	Design Thinking & Innovation	R23CC22L3	Skill development	R23(2-2)

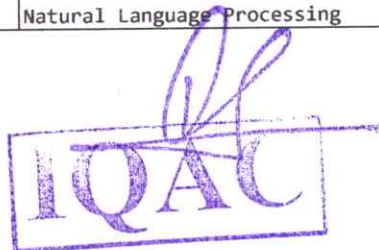



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1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

LIST OF NEW COURSES DURING (2024-25) INFORMATION TECHNOLOGY

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)	Link to the relevant document
1	Mathematical Foundations of Computer Science	R20CC2102	Employability	R20(2-1)	
2	OOPs through Java	R20CC2103	Employability	R20	
3	Data Structures	R20CC2104	Skill development	R20	
4	Computer Organization	R20CI2101	Skill development	R20	
5	Front End Web Technologies	R20CC2105	Skill development	R20	
6	Data Structures Lab	R20CC21L1	Skill development	R20	
7	OOPs through Java Lab	R20CC21L2	Skill development	R20	
8	Front End Web Technologies Lab	R20CC21L3	Skill development	R20	
9	Data Science Tools	R20CC21SC1	Skill development	R20	
10	Constitution of India	R20CCMC2	Skill development	R20	
11	Technical and Communicative English -II	R20CC2201	Skill development	R20(2-2)	
12	Database Management Systems	R20CC2203	Employability	R20	
13	Software Engineering	R20CC2204	Employability	R20	
14	Design Analysis of Algorithms	R20IT2202	Employability	R20	
15	Computer Networks	R20IT2205	Skill development	R20	
16	Database Management Systems Lab	R20CC22L1	Skill development	R20	
17	Mobile Application Development Lab	R20CC22L2	Skill development	R20	
18	SE and UML Lab	R20IT22L3	Skill development	R20	
19	Artificial Intelligence Tools	R20CC22SC2	Skill development	R20	
20	Operating Systems	R20CC3101	Skill development	R20(3-1)	
21	Automata and Compiler Design	R20IT3103	Skill development	R20	
22	Advanced Web Technologies	R20IT3104	Skill development	R20	
23	Data Warehousing and Data Mining	R20CC3102	Employability	R20	
24	Advanced Web Technologies Lab	R20IT31L3	Employability	R20	
25	CN & OS LAB	R20CC31L2	Employability	R20	
26	English Employability Skills	R20CC31L1	Skill development	R20	
27	Internship/ Community Service Project	R20CC31IN	Skill development	R20	
28	Essence of Indian Traditional Knowledge	R20CC31MC02	Skill development	R20	
29	Machine Learning	R20CC3204	Skill development	R20(3-2)	
30	Agile Methodologies	R20IT3202	Employability	R20	
31	Cryptography and Network Security	R20CC3201	Employability	R20	
32	Big Data Analytics	R20CC3206	Employability	R20	
33	Machine Learning Lab	R20CC32L2	Employability	R20	
34	IOT	R20IT32L4	Employability	R20	
35	PE and HV	R20CC32MC2	Skill development	R20	
36	Deep Learning	R20IT4105	Skill development	R20(4-1)	
37	Natural Language Processing	R20CC4106	Skill development	R20	



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38	Block Chain Technologies	R20IT4107	Skill development	R20
39	DevOps	R20IT4110	Employability	R20
40	Human Computer Interaction	R20IT4102	Employability	R20
41	Entrepreneurship and Innovation	R20CC4117	Employability	R20
42	Agile with SCRUM	R20AI2202	Employability	R20
43	Internship / Community Service Project	R20CC41IN	Employability	R20
44	MOOCs	R20CC41MC	Employability	R20
45	Discrete Mathematics & Graph Theory	R23CC2101	Employability	R23(2-1)
46	Universal Human Values- Understanding Harmony	R23CC2102	Skill development	R23
47	Digital Logic & Computer Organization	R23CC2103	Skill development	R23
48	Advanced Data Structures & Algorithm Analysis	R23CC2104	Skill development	R23
49	Object Oriented Programming Through Java	R23CC2105	Skill development	R23
50	Advanced Data Structures and Algorithm Analysis Lab	R23CC21L1	Skill development	R23
	Object Oriented Programming Through Java Lab	R23CC21L2	Skill development	R23
52	Python Programming	R23CC21L3	Employability/Skill development	R23
53	Environmental Studies	R23CC21MC	Skill development	R23
54	Optimization Techniques	R23CC2208	Skill development	R23(2-2)
55	Probability & Statistics	R23CC2202	Skill development	R23
56	Operating Systems	R23CC2203	Skill development	R23
57	Database Management Systems	R23CC2204	Skill development	R23
58	Software Engineering	R23CC2205	Skill development	R23
59	Operating Systems & Software Engineering Lab	R23IT22L4	Employability	R23
60	Database Management Systems Lab	R23CC22L1	Employability	R23
61	Python with Django	R23IT22L2	Employability	R23
62	Design Thinking & Innovation	R23CC22L3	Employability	R23
63	Advanced Java	R23IT3108	Skill development	R23(3-1)
64	Computer Networks	R23CC3101	Skill development	R23
	Automata Theory & Compiler Design	R23CC3103	Skill development	R23
66	Artificial Intelligence	R23CC3105	Skill development	R23
67	Unix and shell Programming	R23OE3126	Skill development	R23
68	Advanced Java Lab	R23IT31L1	Skill development	R23
69	Computer Networks Lab	R23IT31L2	Skill development	R23
70	Full Stack Development 1	R23IT31L3	Employability	R23
71	User Interface Design using Flutter	R23IT31L4	Skill development	R23
72	Evaluation of Community Service Internship	R23IT31CSP	Employability	R23
73	Cloud Computing	R23CC3203	Employability	R23(3-2)
74	Cryptography & Network Security	R23CC3201	Skill development	R23
75	Machine Learning	R23CC3206	Employability/Skill development	R23
76	Generative AI	R23CC3202	Employability	R23
77	Natural Language Processing	R23CC31	Employability	R23
78	Software Engineering	R23OE3227	Skill development	R23

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79	Cloud Computing Lab	R23IT32L1	Skill development	R23
80	Machine Learning Lab	R23IT32L2	Skill development	R23
81	Soft skills / / SWAYAM Plus - 21st Century Employability Skills	R23IT32L3	Skill development	R23
82	Technical Paper Writing & IPR	R23IT32MC	Employability	R23



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1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

LIST OF NEW COURSES DURING (2024-25) CSE(AI)

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)	Link to the relevant document
R20 II-I-AI					
1	Mathematical Foundations of Computer Science	R20CC2102	Employability	R20	
2	OOPs through Java	R20CC2103	Employability	R20	
3	Data Structures	R20CC2104	Skill development	R20	
4	Data Science	R20AI210	Skill development/Employability	R20	
5	Front End Web Technologies	R20CC210	Skill development	R20	
6	Data Structures Lab	R20CC211L	Skill development	R20	
7	OOPs through Java Lab	R20CC211L2	Skill development	R20	
8	Front End Web Technologies Lab	R20CC211L3	Skill development	R20	
9	Data Science Tools Lab	R20CC21SC1	Skill development	R20	
10	Constitution of India	R20CCMC2	Skill development	R20	
R20 II-II-AI					
11	Technical and Communicative English -II	R20CC2201	Skill development	R20	
12	Database Management Systems	R20CC2203	Employability	R20	
13	Automata and Compiler Design	R20CC2202	Skill development	R20	
14	Software Engineering	R20CS2204	Employability	R20	
15	Introduction to Artificial Intelligence	R20CC22L2		R20	
16	DatabaseManagementSystems Lab	R20CC22L1	Skill development	R20	
17	Artificial Intelligence Lab	R20CS22L3	Skill development	R20	
18	Mobile Application Development Lab	R20CS22L2	Skill development	R20	
19	Internet of Things	R20AI22SC1	Skill development	R20	
R20 III-I-AI					
20	Operating Systems	R20CC3101	Skill development	R20	
21	Computer Networks	R20CC3104	Skill development	R20	
22	Machine Learning	R20AI3105	Skill development	R20	
23	Data Warehousing and Data Mining.	R20CC3102	Skill development	R20	
24	Design and Analysis of Algorithms	R20CC3103	Skill development	R20	
25	CN & OS Lab	R20CC311L2	Skill development	R20	
26	Machine Learning Lab	R20AI311L3	Skill development	R20	
27	English Employability Skills	R20CC31L1	Skill development	R20	
28	Internship /Community ServiceProject	R20CC31IN	Skill development	R20	
29	Essence of IndianTraditional Knowledge	R20CC31MC2	Skill development	R20	
R20 III-II-AI					
30	Deep Learning	R20AI3204	Skill development/Employability	R20	



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31	Natural Language Processing	R20AI3206	Skill development	R20
32	Advanced Java and Web Technologies	R20CC3205	Skill development/Employability	R20
33	Cryptography & Network Security	R20CC3201	Skill development	R20
34	Mobile Computing	R20CC3202	Skill development	R20
35	AJWT LAB	R20CC32L1	Skill development	R20
36	Deep Learning Lab	R20AI32L2	Skill development	R20
37	Natural Language Processing Lab	R20AI32L3	Skill development	R20
38	Design Thinking and Innovation	R20AI32L4	Skill development	R20
39	Professional Ethics & Human Values	R20CC32MC2	Skill development	R20

R20 IV-I-AI

40	Artificial Neural Networks	R20AI4107	Skill development	R20
41	Human Computer Interaction	R20CC4102	Skill development	R20
42	E-Commerce	R20CC4104	Skill development	R20
43	Entrepreneurship and Innovation	R20CC4117	Skill development	R20
44	Agile with Scrum	R20CC41L1	Skill development	R20
45	Internship / Community Service Project	R20CC41IN	Skill development	R20
45	MOOCs	R20CC41MC	Skill development	R20

R20 IV-II-AI

45	INTERNSHIP AND PROJECT	R20CC42PW	Skill development	R20
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R23 II-I-AI

1	Discrete Mathematics & Graph Theory	R23CC2101	Employability	R23
2	Universal Human Values- Understanding Harmony	R23CC2102	Employability	R23
3	Artificial Intelligence	R23CC2106	Skill development	R23
4	Advanced Data Structures & Algorithm Analysis	R23CC2104	Skill development	R23
5	Object Oriented Programming Through Java	R23CC2105	Skill development	R23
6	Advanced Data Structures and Algorithm Analysis Lab	R23CC21L1	Skill development	R23
7	Object Oriented Programming Through Java Lab	R23CC21L2	Skill development	R23
8	Python Programming Lab	R23CC21L3	Skill development	R23
9	Environmental Studies	R23CC21MC	Skill development	R23

R23 II-II-AI

1	Optimization Techniques	R23CC2208	Employability	R23
2	Probability & Statistics	R23CC2202	Employability	R23
3	Machine Learning	R23CC2206	Skill development	R23
4	Database Management Systems	R23CC2204	Skill development	R23
5	Digital Logic & Computer Organization	R23CC2207	Skill development	R23
6	AI & ML Lab	R23AI22L4	Skill development	R23
7	Database Management Systems Lab	R23CC22L1	Skill development	R23
8	Full Stack Development-I	R23CC22L2	Skill development	R23
9	Design Thinking & Innovation	R23CC22L3	Skill development	R23

R23 III-I-AI

1	Deep Learning	R23AI3104	Employability	R23
2	Computer Networks	R23CC3101	Employability	R23
3	Operating Systems	R23AI3105	Skill development	R23
4	Automata Theory & Compiler Design	R23CC3103	Skill development	R23
5	Deep Learning Lab	R23AI31L1	Skill development	R23
	Unix Programming	R23AI3107	Skill development	R23
6	Computer Networks Lab	R23IT31L2	Skill development	R23
	Deep Learning Lab		Skill development	R23
7	Full Stack Development-II	R23IT31L3	Skill development	R23
8	User Interface Design using Flutter	R23IT31L4	Skill development	R23

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9	Evaluation of Community Service Internship		Skill development	
R23 III-II-AI				
1	Software Engineering	R23AI3204	Employability	R23
2	Generative A.I.	R23CC3210	Employability	R23
3	Data Visualization	R23AI3205	Skill development	R23
4	Cryptography & Network Securit	R23CC3201	Skill development	R23
5	Cloud Computing	R23CC3203	Skill development	R23
6	Generative A.I. Lab	R23AI32L1	Skill development	R23
7	Data Visualization Lab	R23AI32L2	Skill development	R23
8	Soft skills	R23AI32L3	Skill development	R23
9	Technical Paper Writing & IPR	R23AI32MC	Skill development	R23



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1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years

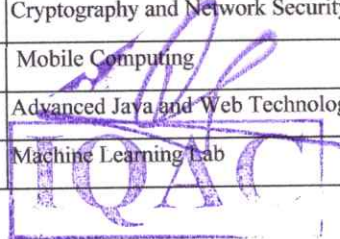
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LIST OF NEW COURSES DURING (2024-25) CSE(AIML)

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2021-22)	Link to the relevant document
1	Problem Solving Using C	R20CC1105	Skill development	R20(1-1)	chrome-extension://efaidnbmnfnkcepmnecnjffmbkgjlpjohjhp/content/uploads/2024/07/R20-AIML-ACADEMIC-REGULATIONS-COURSE-STRUCTURE-SYLLABUS.pdf
2	Soft Skills and Communication Skills Lab -I	R20CC11L1	Skill development	R20(1-1)	
3	Problem Solving Using C Lab	R20CC11L2	Skill development	R20(1-1)	
4	LINUX Programming Lab	R20CS11L8	Skill development	R20(1-1)	
5	Numerical Methods and Statistics	R20CC1202	Employability	R20(1-2)	
6	Problem Solving Using Python	R20CC1206	Skill development	R20(1-2)	
7	R Programming Lab	R20CC12L3	Skill development	R20(1-2)	
8	Problem Solving Using Python Lab	R20CC12L12	Skill development	R20(1-2)	
9	CSE Workshop	R20CS12L13	Skill development	R20(1-2)	
10	Mathematical Foundations of Computer Science	R20CC2102	Skill development	R20(2-1)	
11	OOPS through Java	R20CC2103	Skill development	R20(2-1)	
12	Data Structures	R20CC2104	Skill development	R20(2-1)	
13	Computer Organization	R20C12101	Skill development	R20(2-1)	
14	Front End Web Technologies	R20CC2105	Skill development	R20(2-1)	
15	Data Structures Lab	R20CC21L1	Skill development	R20(2-1)	
16	OOPS through Java Lab	R20CC21L2	Skill development	R20(2-1)	
17	Front End Web Technologies Lab	R20CC21L3	Skill development	R20(2-1)	
18	Data Science Lab	R20CC21SC1	Skill development	R20(2-1)	
19	Database Management Systems	R20CC2203	Skill development	R20(2-2)	
20	Formal Languages and Automata Theory	R20CS2202	Skill development	R20(2-2)	
21	Database Management Systems Lab	R20CC22L1	Skill development	R20(2-2)	
22	Software Engineering and UML Lab	R20CS22L3	Skill development	R20(2-2)	
23	Mobile Application Development Lab	R20CC22L2	Skill development	R20(2-2)	
24	Artificial Intelligence	R20CS22SC1	Skill development	R20(2-2)	
25	Design and Analysis of Algorithms	R20CC3103	Skill development	R20(3-1)	
26	Computer Networks	R20CC3104	Skill development	R20(3-1)	
27	Compiler Design	R20CS3105	Skill development	R20(3-1)	
28	Operating Systems	R20CC3101	Skill development	R20(3-1)	
29	Data Warehousing and Data Mining	R20CC3102	Skill development	R20(3-1)	
30	DAA and CD Lab	R20CS31L3	Skill development	R20(3-1)	
31	CN and OS Lab	R20CC31L2	Skill development	R20(3-1)	
32	Summer Internship / Community Service Project	R20CC31MC02	Employability	R20(3-1)	
33	Machine Learning	R20CC3204	Skill development	R20(3-2)	
34	Advanced Java and Web Technologies	R20CC3205	Skill development	R20(3-2)	
35	Cryptography and Network Security	R20CC3201	Skill development	R20(3-2)	
36	Mobile Computing	R20CC3202	Skill development	R20(3-2)	
37	Advanced Java and Web Technologies Lab	R20CC32L1	Skill development	R20(3-2)	
38	Machine Learning Lab	R20CC32L2	Skill development	R20(3-2)	

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39	Software Lab	R20CC32L3	Skill development	R20(3-2)
46	LINEAR ALGEBRA & CALCULUS	R23CC1101	Employability	R23(1-1)
47	INTRODUCTION TO PROGRAMMING	R23CC1102	Skill development	R23(1-1)
48	COMPUTER PROGRAMMING LAB	R23CC11L1	Skill development	R23(1-1)
49	ENGINEERING WORKSHOP	R23CC11L3	Skill development	R23(1-1)
50	DIFFERENTIAL EQUATIONS & VECTOR CALCULUS	R23CC1201	Skill development	R23(1-2)
51	DATA STRUCTURES	R23CC1202	Skill development	R23(1-2)
52	ENGINEERING GRAPHICS	R23CC1204	Skill development	R23(1-2)
53	DATA STRUCTURES LAB	R23CC12L1	Skill development	R23(1-2)
54	IT WORKSHOP	R23CC12L2	Skill development	R23(1-2)
55	ENGINEERING WORKSHOP	R23CC12L3	Skill development	R23(1-2)
56	Discrete Mathematics & Graph Theory	R23CC2101	Employability	R23(2-1)
57	Digital Logic & Computer Organization	R23CC2103	Skill development	R23(2-1)
58	Advanced Data Structures & Algorithm Analysis	R23CC2104	Skill development	R23(2-1)
59	Object Oriented Programming Through Java	R23CC2105	Skill development	R23(2-1)
	Advanced Data Structures and Algorithm Analysis Lab	R23CC21L1	Skill development	R23(2-1)
61	Object Oriented Programming Through Java Lab	R23CC21L2	Skill development	R23(2-1)
62	Python Programming	R23CC21L3	Skill development	R23(2-1)
63	Probability & Statistics	R23CC2202	Employability	R23(2-2)
64	Operating Systems	R23CC2203	Skill development	R23(2-2)
65	Database Management Systems	R23CC2204	Skill development	R23(2-2)
66	Software Engineering	R23CC2205	Skill development	R23(2-2)
67	Operating Systems Lab	R23CS22L4	Skill development	R23(2-2)
68	Database Management Systems Lab	R23CC22L1	Skill development	R23(2-2)
69	Full Stack Development -I	R23CC22L2	Skill development	R23(2-2)
70	Design Thinking & Innovation	R23CC22L3	Skill development	R23(2-2)




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1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

LIST OF NEW COURSES DURING (2024-25) MASTER OF COMPUTER APPLICATIONS

S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)	Link to the relevant document
1	C Programming and Data Structures	R20MCA101	Employability	R20(1-1)	
2	Database Management Systems	R20MCA103	Employability	R20(1-1)	
3	Object oriented Programming using JAVA	R20MCA202	Skill development	R20(1-2)	
4	Artificial Intelligence	R20MCA205	Skill development	R20(1-2)	
5	Machine Learning with Python	R20MCA301	Skill development	R20(2-1)	
6	Cloud Computing	R20MCA304	Skill development	R20(2-1)	
6	Big Data Analytics	R20MCA404	Skill development	R20(2-2)	
8	Cyber Security	R20MCA405	Skill development	R20(2-2)	
9	Data Structures	R24MCA101	Skill development	R24(1-1)	
10	Database Management Systems	R24MCA103	Skill development	R24(1-1)	
11	Operating Systems	R24MCA104	Skill development	R24(1-1)	
12	Object Oriented Programming Using JAVA	R24MCA203	Skill development	R24(1-2)	
13	Software Engineering	R24MCA204	Skill development	R24(1-2)	
14	Artificial Intelligence	R24MCA205	Skill development	R24(1-2)	



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1.1.3 Average percentage of courses having focus on employability/ entrepreneurship/ skill development offered by the institution during the last five years (10)

LIST OF NEW COURSES DURING (2024-25) MASTER OF BUSINESS ADMINISTRATION					
S.NO	Name of the Course	Course Code	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction (during 2020-21)	Link to the relevant document
1	Management Theory & Organizational behaviour	19MBA1TH01	Skill development	R19(1-1)	
2	Economics for Managers	19MBA1TH02	Skill development	R19(1-1)	
3	Accounting for Managers	19MBA1TH03	Skill development	R19(1-1)	
4	Managerial Communication & Soft Skills	19MBA1TH04	Skill development	R19(1-1)	
5	Business Environment	19MBA1TH05	Skill development	R19(1-1)	
6	Quantitative Analysis for Business decisions	19MBA1TH06	Skill development	R19(1-1)	
7	IT for Managers-I	19MBA1LB01	Skill development	R19(1-1)	
8	Financial Management	19MBA2TH01	Skill development	R19(1-2)	
9	Human Resource Management	19MBA2TH02	Skill development	R19(1-2)	
10	Marketing Management	19MBA2TH03	Skill development/Employability	R19(1-2)	
11	Production and Operations Management	19MBA2TH04	Skill development	R19(1-2)	
12	Business Research Methodology	19MBA2TH05	Skill development	R19(1-2)	
13	Business Laws	19MBA2TH06	Skill development	R19(1-2)	
14	IT for Managers-II	19MBA2LB01	Skill development	R19(1-2)	
15	Mini Project	19MBA2MP01	Skill development/Employability	R19(1-2)	
16	Strategic Management	19MBA3TH01	Skill development	R19(2-1)	
17	Business Ethics & Corporate Governance	19MBA3TH02	Skill development	R19(2-1)	
18	Business Analytics	19MBA3TH03	Skill development	R19(2-1)	
19	Community Services (MC)	19MBA3MC01	Skill development	R19(2-1)	
20	Investment and Portfolio Management	19MBA3THF1	Skill development	R19(2-1)	
21	Corporate Taxation	19MBA3THF2	Skill development	R19(2-1)	
22	Banking & Insurance	19MBA3THF3	Skill development	R19(2-1)	
23	Personal Financial Planning	19MBA3THF4	Skill development	R19(2-1)	
24	Compensation and Reward Management	19MBA3THH2	Skill development	R19(2-1)	
25	Employee Engagement & Retention Management	19MBA3THH4	Skill development	R19(2-1)	
26	Customer Relationship Management & CB	19MBA3THM1	Skill development	R19(2-1)	
27	Event Management	19MBA3THM2	Skill development/Employability	R19(2-1)	
28	Retail Marketing	19MBA3THM3	Skill development	R19(2-1)	
29	Data warehousing & Data Mining	19MBA3THS2	Skill development	R19(2-1)	
30	Software Project Management	19MBA3THS3	Skill development/Employability	R19(2-1)	
31	E-Business	19MBA3THS4	Skill development/entrepreneurship	R19(2-1)	
32	Logistics and Supply Chain Management	19MBA4TH01	Skill development	R19(2-2)	
33	Entrepreneurship Development	19MBA4TH02	Skill development/entrepreneurship	R19(2-2)	
34	Major Project/ Comprehensive Viva-voc	19MBA4PW01	Skill development	R19(2-2)	
35	Financial Risk Management & Derivatives	19MBA4THF1	Skill development	R19(2-2)	
36	Financial Institutions & Services	19MBA4THF2	Skill development	R19(2-2)	
37	International Financial Management	19MBA4THF3	Skill development	R19(2-2)	




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38	Strategic Investment and financial decisions	19MBA4THF4	Skill development	R19(2-2)
39	International HRM	19MBA4THH1	Skill development	R19(2-2)
40	Leadership	19MBA4THH2	Skill development/Employability	R19(2-2)
41	Human Resource Development	19MBA4THH3	Skill development	R19(2-2)
42	Industrial Jurisprudence & Labour Legislations	19MBA4THH4	Skill development	R19(2-2)
43	Services Marketing	19MBA4THM1	Skill development	R19(2-2)
44	Digital Marketing	19MBA4THM2	Skill development	R19(2-2)
45	Brand Management	19MBA4THM3	Skill development	R19(2-2)
46	Advertising Management	19MBA4THM4	Skill development	R19(2-2)
47	Business Intelligence	19MBA4THS1	Skill development	R19(2-2)
48	Enterprise Resource Planning	19MBA4THS2	Skill development	R19(2-2)
49	Information Systems Audit	19MBA4THS3	Skill development	R19(2-2)
50	Cyber Laws & Security	19MBA4THS4	Skill development	R19(2-2)
51	Management and Organizational Behavior	R24MBA101	Skill development	R24(1-1)
52	Managerial Economics	R24MBA102	Skill development	R24(1-1)
53	Accounting for Management	R24MBA103	Skill development	R24(1-1)
54	Quantitative Analysis for Business Decisions	R24MBA104	Skill development	R24(1-1)
55	Entrepreneurship Development	R24MBA105	Skill development	R24(1-1)
56	Business Environment	R24MBA106	Skill development	R24(1-1)
57	A. Information Technology for Business	R24MBA107	Skill development	R24(1-1)
58	C. Intellectual Property Rights & Patents	R24MBA108	Skill development	R24(1-1)
59	D. MOOCs :SWAYAM/NPTEL-	R24MBA109	Skill development	R24(1-1)
60	PACE-UP	R24MBA1L1	Skill development	R24(1-1)
61	Tally Lab	R24MBA1L2	Skill development	R24(1-1)
62	Entrepreneur Project -I	24MBA1EP	Skill development/entrepreneurship	R24(1-1)
63	Financial Management	R24MBA201	Skill development	R24(1-2)
64	Human Resource Management	R24MBA202	Skill development	R24(1-2)
65	Operations Management	R24MBA203	Skill development	R24(1-2)
66	Marketing Management	R24MBA204	Skill development	R24(1-2)
67	Research Methods for Business Decisions	R24MBA205	Skill development	R24(1-2)
68	Business Analytics	R24MBA206	Skill development	R24(1-2)
69	Cross Cultural management	R24MBA207	Skill development	R24(1-2)
70	B. Project Management	R24MBA208	Skill development	R24(1-2)
71	C. Lean Management	R24MBA209	Skill development	R24(1-2)
72	D. Database Management System	R24MBA210	Skill development	R24(1-2)
73	R-Programming Lab	R24MBA2L1	Skill development	R24(1-2)
74	IT Lab	R24MBA2L2	Skill development	R24(1-2)
75	Entrepreneur Project -II	R24MBA2EP	Skill development/entrepreneurship	R24(1-2)

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