

QUALITY INDICATOR FRAMEWORK (QIF)

1.3.2 Average percentage of courses that include experiential learning through project work/fieldwork/internship during 2022-23.

S.No	Program Name	Program Code	Name of the Course that include experiential learning through project work/field work/internship	Course Code	Document Link
1.	Agriculture Engineering	AG	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
2.			Fundamentals of Agriculture & Crop Production Technology	21AG32	
3.			Soil Mechanics, Surveying & Levelling	21AG33	
4.			Mechanics of Materials & Machines	21AG34	
5.			Basic Workshop Practise Lab	21AGL35	
6.			Tractor & Automotive Engines	21AG42	
7.			Agricultural Process Engineering	21AG43	
8.			Thermodynamics & Fluid Mechanics	21AG44	
9.			Machine Drawing and GD & T Lab	21AGL46	
10.			Inter/Intra Institutional Internship	21INT49	
11.			Complex Analysis, Probability and Linear Programming	21MATME41	
12.	Artificial Intelligence and Machine Learning	AIML	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
13.			Data Structures and its Applications	21CS32	
14.			Computer Organization and Architecture	21CS34	
15.			Object Oriented Programming with JAVA Laboratory	21CSL35	
16.			Mastering Office	21CSL381	
17.			Mathematical Foundations for Computing	21CS41	
18.			Design and Analysis of Algorithms	21CS42	
19.			Microcontroller and Embedded System	21CS43	
20.			Operating System	21CS44	

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21.			Python Programming Laboratory	21CSL46	
22.			R- Programming	21CSL483	
23.			Python Programming	18AI52	
24.			Database Management System	18CS53	
25.			Automata theory and Computability	18CS54	
26.			Principles of Artificial Intelligence	18AI55	
27.			Mathematics for Machine Learning	18AI56	
28.			Artificial Intelligence Laboratory	18AIL57	
29.			DBMS Laboratory with mini project	18CSL58	
30.			Machine Learning	18AI61	
31.			Digital Image Processing	18AI62	
32.			Digital Image Processing Laboratory with mini project	18AIL67	
33.			Mobile Application Development Laboratory	18AIL68	
34.			Java for Mobile Applications	18AI63	
35.			Foundation for Data Science	18AI644	
36.	Computer Science & Design	CSD	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
37.			Data Structures and ITS Applications	21CS32	
38.			Analog and Digital Electronics	21CS33	
39.			Computer Organization and Architecture	21CS34	
40.			Object Oriented Programming with JAVA Laboratory	21CSL35	
41.			Ability Enhancement Course - III (Mastering Office)	21CSL381	
42.			Mathematical Foundations for Computing	21CS41	
43.			Design and Analysis of Algorithms	21CS42	
44.			Microcontroller and Embedded System	21CS43	
45.			Operating System	21CS44	
46.			Python Programming Lab	21CSL46	
47.	Computer Science & Engineering	CSE	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
48.			Data Structures and its Applications	21CS32	
49.			Analog and Digital Electronics	21CS33	
50.			Computer Organization and Architecture	21CS34	

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51.		Object Oriented Programming with JAVA Laboratory	21CSL35	VIEW DOCUMENT
52.		Mastering Office	21CSL381	
53.		Mathematical Foundations for Computing	21MATCS41	
54.		Design and Analysis of Algorithms	21CS42	
55.		Microcontroller and Embedded System	21CS43	
56.		Operating System	21CS44	
57.		Python Programming Laboratory	21CSL46	
58.		Web Programming	21CSL481	
59.		Inter/Intra Institutional Internship	21INT49	
60.		Computer Networks and Security	18CS52	
61.		Database Management System	18CS53	VIEW DOCUMENT
62.		Automata theory and Computability	18CS54	
63.		Application Development using Python	18CS55	
64.		Unix Programming	18CS56	
65.		Computer Network Laboratory	18CSL57	
66.		DBMS Laboratory with mini project	18CSL58	
67.		System Software and Compilers	18CS61	
68.		Computer Graphics and Visualization	18CS62	
69.		Web Technology and its applications	18CS63	
70.		Advanced JAVA and J2E	18CS644	
71.		System Software Laboratory	18CSL66	
72.		Computer Graphics Laboratory with mini project	18CSL67	
73.		Mobile Application Development	18CSMP68	
74.		Artificial Intelligence and Machine Learning	18CS71	
75.		Big Data Analytics	18CS72	
76.		User Interface Design	18CS734	
77.		Cryptography	18CS744	
78.		Python Application Programming	18CS752	
79.		Artificial Intelligence and Machine Learning Laboratory	18CSL76	
80.		Project Work Phase – 1	18CSP77	
81.		Internet of Things	18CS81	

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82.			Storage Area Networks	18CS822	
83.			Project Work Phase - 2	18CSP83	
84.			Internship		
85.	Civil Engineering	CV	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
86.			Geodetic Engineering	21CV32	
87.			Strength of Materials	21CV33	
88.			Earth Resources and Engineering	21CV34	
89.			Computer Aided Building Planning and Drawing	21CVL35	
90.			Microsoft Excel and Visual Basic for Application	21CV832	
91.			Complex Analysis, Probability and Statistical Methods.	21MAT41	
92.			Fluid Mechanics and Hydraulics	21CV42	
93.			Public Health Engineering	21CV43	
94.			Analysis of Structures	21CV44	
95.			Earth Resources and Engineering Lab	21CVL46	
96.			Green Buildings	21CV485	
97.			Construction Management & Entrepreneurship	18CV51	
98.			Analysis of Indeterminate Structures	18CV52	
99.			Design of RC Structural Elements	18CV53	
100.			Basic Geotechnical Engineering	18CV54	
101.			Municipal Wastewater Engineering	18CV55	
102.			Highway Engineering	18CV56	
103.			Surveying Practice	18CVL57	
104.			Concrete and Highway Materials Laboratory	18CVL58	
105.			Design of Steel Structural Elements	18CV61	
106.			Applied Geotechnical Engineering	18CV62	
107.			Hydrology and Irrigation Engineering	18CV63	VIEW DOCUMENT
108.			Solid Waste Management	18CV642	
109.			Occupational Health & Safety	8CV653	
110.			Software Application Laboratory	18CVL66	
111.			Environmental Engineering Laboratory	18CVL67	
112.			Extensive Survey Project	18CSEP68	

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113.			Quantity Surveying And Contract Management	18CV71	
114.			Design Of RCC And Steel Structures	18CV72	
115.			Air Pollution And Control	18CV732	
116.			Earthquake Engineering	18CV741	
117.			Design Of Hydraulic Structures	18CV744	
118.			Environmental Protection and Management	8CV753	
119.			Computer Aided Detailing Of Structures	18CVL76	
120.			Geotechnical Engineering Laboratory	18CVL77	
121.			Design of Pre-stressed Concrete	18CV81	
122.			Rehabilitation & Retrofitting	18CV824	
123.			Pavement Design	18CV825	
124.			Project Work Phase - 2	18CVP83	
125.			Technical Seminar	18CVS84	
126.			Internship	18CVI85	
127.	Electronics Communication Engineering	ECE	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
128.			Digital System Design using Verilog	21EC32	
129.			Basic Signal Processing	21EC33	
130.			Analog Electronic Circuits	21EC34	
131.			Analog and Digital Electronics Lab	21ECL35	
132.			LIC (Linear Integrated Circuits) Lab using Pspice/MultiSIM	21EC383	
133.			Complex Analysis Probability and Statistical Methods	21EC41	
134.			Digital Signal Processing	21EC42	
135.			Circuits & Controls	21EC43	
136.			Communication Theory	21EC44	
137.			Communication Laboratory I	21ECL46	
138.			C++ Basics	21EC482	
139.			Inter/Intra Institutional Internship	21INT49	
140.			Digital Signal Processing	18EC52	
141.			Principles of Communication Systems	18EC53	
142.			Information Theory and coding	18EC54	
143.			Electromagnetic Waves	18EC55	
144.			Verilog HDL	18EC56	
145.			Digital Signal Processing Laboratory	18ECL57	
146.			HDL Laboratory	18ECL58	

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147.			Digital Communication	18EC61	VIEW DOCUMENT
148.			Embedded Systems	18EC62	
149.			Microwave and Antennas	18EC63	
150.			Operating systems	18EC641	
151.			Embedded Systems Laboratory	18ECL66	
152.			Communication Laboratory	18ECL67	
153.			Mini-Project	18ECMP68	
154.			Computer Network	18EC71	
155.			VLSI Design	18EC72	
156.			DSP Algorithm and Architecture	18EC734	
157.			IoT and Wireless Sensor Networks	18EC741	
158.			Computer Network Laboratory	18ECL76	
159.			VLSI Laboratory	18ECL77	
160.			Project Work Phase-1	18ECP78	
161.			Wireless and Cellular Communication	18EC81	
162.			Network Security	18EC821	
163.			Internship	18EC185	
164.			Project Work Phase – 2	18ECP83	
165.	Information Science & Engineering	ISE	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
166.			Data Structures and its Applications	21CS32	
167.			Analog and Digital Electronics	21CS33	
168.			Computer Organization and Architecture	21CS34	
169.			Object Oriented Programming with JAVA Laboratory	21CSL35	
170.			Mastering Office	21CSL381	
171.			Mathematical Foundations for Computing	21MATCS41	
172.			Design and Analysis of Algorithms	21CS42	
173.			Microcontroller and Embedded System	21CS43	
174.			Operating System	21CS44	
175.			Python Programming Laboratory	21CSL46	
176.			Web Programming	21CSL481	
177.			Inter/Intra Institutional Internship	21INT49	
178.			Computer Networks and Security	18CS52	
179.			Database Management System	18CS53	
180.			Automata theory and Computability	18CS54	
181.			Application Development using Python	18CS55	
182.			Unix Programming	18CS56	

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183.			Computer Network Laboratory	18CSL57	VIEW DOCUMENT
184.			DBMS Laboratory with mini project	18CSL58	
185.			File Structures	18IS61	
186.			Software Testing	18IS62	
187.			Web Technology and its applications	18CS63	
188.			Object Oriented Modelling and Design	18CS642	
189.			Introduction to Data Structures and Algorithms	18CS652	
190.			Software Testing Laboratory	18ISL66	
191.			File Structures Laboratory with mini project	18ISL67	
192.			Mobile Application Development	18ISMP68	
193.			Artificial Intelligence and Machine Learning	18CS71	
194.			Big Data Analytics	18CS72	
195.			Software Architecture and Design Patterns	18CS731	
196.			Robotic Process Automation Design & Development	18CS745	
197.			Python Application Programming	18CS752	
198.			Artificial Intelligence and Machine Learning Laboratory	18CSL76	VIEW DOCUMENT
199.			Project Work Phase – 1	18CSP77	
200.			Internet of Things	18CS81	
201.			Storage Area Networks	18CS822	
202.			Project Work Phase - 2	18CSP83	
203.			Internship	18CSI85	
204.	Mechanical Engineering	ME	Transform Calculus, Fourier Series and Numerical Techniques	21MAT31	VIEW DOCUMENT
205.			Metalcasting, Forming & Joining Process	21ME32	
206.			Material Science & Engineering	21ME33	
207.			Thermodynamics	21ME34	
208.			Machine drawing & GD & T	21MEL35	
209.			Introduction to PYTHON	21ME381	
210.			Complex Analysis, Probability & Linear Programming	21ME41	
211.			Machining Science and Jigs & Fixture	21ME42	
212.			Fluid Mechanics	21ME43	
213.			Mechanics of Materials	21ME44	

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214.			Mechanical Measurements and Metrology Lab	21MEL46	VIEW DOCUMENT
215.			Spread Sheets for Engineers	21ME481	
216.			Inter/Intra Institutional Internship	21INT49	
217.			Management & Economics	18ME51	
218.			Design Of Machine Element-I	18ME52	
219.			Dynamics Of Machine	18ME53	
220.			Turbo Machines	18ME54	
221.			Fluid Power Engineering	18ME55	
222.			Operation Management	18ME56	
223.			Fluid Mechanics/Machines Lab	18MEL57	
224.			Energy Conversion Lab	18MEL58	
225.			Finite Element Methods	18ME61	
226.			Design of Machine Elements II	18ME62	
227.			Heat Transfer	18ME63	
228.			Non Traditional Machining	18ME641	
229.			Computer Aided Modelling and Analysis Lab	18MEL66	
230.			Heat Transfer Lab	18MEL67	
231.			Mini-project	18MEM68	
232.			Control Engineering	18ME71	
233.			Computer Aided Design & Manufacturing	18ME72	
234.			Total Quality Management	18ME734	
235.			Additive Manufacturing	18ME741	
236.			Industrial Safety	18ME753	
237.			Computer Integrated Manufacturing Lab	18MEL76	
238.			Design Lab	18MEL77	
239.			Project Work Phase - 1	18MEP78	
240.			Internship	18MEI85	
241.			ENERGY ENGINEERING	18ME81	
242.			Automobile Engg	18ME824	
243.			Project Work Phase - 2	18MEP83	
244.			Internship	18MEI85	
245.	Management Business Administration	MBA	Management & Organizational Behaviour	20MBA11	
246.			Accounting for managers	20MBA13	
247.			Marketing Management	20MBA15	
248.			Human resource management	20MBA21	
249.			Financial management	20MBA22	
250.			Strategic management	20MBA25	
251.			Entrepreneurship & Legal Aspects	20MBA26	

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252.		Emerging Exponential Technologies	20MBA301	VIEW DOCUMENT
253.		Technology & Operational Strategy	20MBA302	
254.		Services Marketing	20MBAMM303	
255.		Marketing Research And Analytics	20MBAMM304	
256.		Investment Management	20MBAFM 303	
257.		Banking And Financial Services	20MBAFM305	
258.		Advanced Financial Management	20MBAFM306	
259.		Human Resource Analytics	20MBAHR304	
260.		Logistics And Supply Chain Management	20MBAMM402	
261.		Digital Marketing Management	20MBAMM403	
262.		Risk Management And Insurance	20MBAFM401	
263.		Financial Derivatives	20MBAFM402	
264.		Corporate Valuation	20MBAFM405	
265.		International Financial Management	20MBAFM406	
266.		Organizational Leadership	20MBAHR401	
267.		Personal Growth & Interpersonal Effectiveness	20MBAHR402	
268.		International Human Resource Management	20MBAHR403	
269.		Organization Change And Development	20MBAHR404	
Average percentage of courses that include experiential Learning.				89.66 %