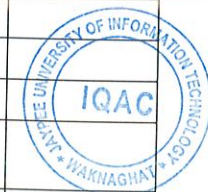


## SUMMARY SHEET

<b>Criteria</b>	Criterion 1 – Curricular Aspects					
<b>Key Indicator</b>	1.1. Curriculum Design and Development					
<b>Metric</b>	1.1.3. Average percentage of courses having focus on employability/ entrepreneurship/ skill development during the last five years					
<b>Response</b>	1.1.3.1: Number of courses having focus on employability/ entrepreneurship/ skill development year wise during the last five years					
	Year	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022
	Number	95	228	238	291	319

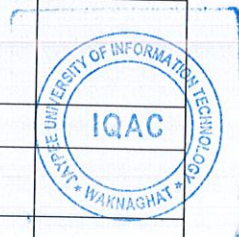
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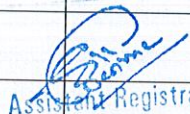
S. No.	Course Code	Name of the Course	Activities/Content with direct bearing on Employability	Activities/Content with direct bearing on Entrepreneurship	Activities /Content with direct bearing on Skill Development
1	17B1WHS731	Quality Management			Yes
2	10M11CI211	Advanced Algorithms	Yes		
3	13M11BT112	Advanced Bioinformatics	Yes		
4	10M11CI112	Advanced Computer Networks	Yes		
5	10M11CI113	Advanced Database Systems	Yes		
6	10M11CI212	Advanced OS	Yes		
7	10M11CI213	Advanced Software Engineering	Yes		
8	10B11CE615	Advanced Structural Analysis	Yes		
9	13M11BT111	Advances in Molecular Cell Biology	Yes		
10	18B1WCI732	Artificial Intelligence	Yes		
11	10B11EC211	Basic Electronics Devices and Circuits	Yes		
12	15B11EC471	Basic Electronics Lab			Yes
13	14M11BT214	Bioenterpreunership and Management		Yes	Yes



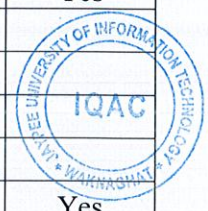
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14	18B1WHS632	Business Analytics		Yes	Yes
15	10B17CE671	Civil Engineering Software Lab	Yes		Yes
16	07B51EC241	Communication Systems	Yes		
17	07B51EC801	Communication Systems Lab	Yes		
18	10B11CI612	Compiler Design	Yes		
19	10B17CI672	Compiler Design Lab	Yes		
20	10B11CI611	Computer Networks	Yes		
21	10B11CI671	Computer Networks Lab	Yes		
22	10B11CI613	Computer Organization and Architecture	Yes		
23	10B17CI171	Computer Programming Lab	Yes		
24	10B11CE515	Construction Technology and Management	Yes		
25	10B11CI616	Data Analysis and Simulation Techniques	Yes		
26	10B22CI622	Data Mining	Yes		
27	10B11CI211	Data Structures	Yes		
28	10B17CI271	Data Structures and Computer Programming Lab	Yes		
29	10B11CI312	Database Systems	Yes		
30	10B17CI372	Database Systems Lab	Yes		
31	10B17EC471	Devices and Circuit Simulation Lab			Yes
32	10B11EC401	Digital Electronics	Yes		
33	10B17EC407	Digital Electronics Lab	Yes		
34	10B11MA211	Discrete Mathematics			Yes
35	10B11EC101	Electrical Circuit Analysis	Yes		
36	10B17EC171	Electrical Circuits Lab	Yes		
37	10B1WPD731	Entrepreneurship Development		Yes	Yes
38	07B41GE101	Environmental Studies			Yes
39	10B11PD411	Finance and Accounting		Yes	Yes
40	07B41PD104	Financial Management		Yes	Yes
41	10B1WPD737	Financial Planning		Yes	Yes
42	14M11BT213	Functional Genomics	Yes		
43	10B11CI411	Fundamentals of Algorithms	Yes		
44	11M12CS111	Fundamentals of Algorithms and Statistical Analysis	Yes		
45	10B17CI471	Algorithms Lab	Yes		
46	14B1WEC735	Fundamentals of Embedded Systems	Yes		
47	10B11PD211	Group and Cooperative Processes			Yes
48	10M11CI114	High performance Computer Architecture	Yes		
49	17B1WHS732/1 8B1WHS641	Human Rights for Technocrats			Yes
50	10B1WCI737	Image Processing	Yes		



  
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51	14M11BT212	Immunotechnology	Yes		
52	14M11BT211	Industrial Biotechnology	Yes		
53	11B1WCI832	Information Retrieval and Data Mining	Yes		
54	13B1WHS832	International Business Management		Yes	Yes
55	14B1WHS832	International Human resource Management		Yes	Yes
56	13B1WHS834	Internet Marketing		Yes	Yes
57	10B11CI111	Introduction to Computer and Programming	Yes		Yes
58	18B1WEC733	Machine Learning and Data Analytics-1	Yes		
59	10B119D311	Managerial Economics		Yes	Yes
60	10B11PH611	Materials Science			Yes
61	10B11CI101	Microprocessors and Controllers	Yes		
62	10B17CI407	Microprocessors and Controllers Lab	Yes		
63	10B28CI408	Multimedia Development Lab - I	Yes		
64	10M11CI214	Multimedia Systems	Yes		
65	11B1WCI836	Network Management	Yes		
66	10B1WCI735	Network Security and Cryptography Techniques	Yes		
67	10B11CI311	Object Oriented Programming	Yes		
68	10B17CI371	Object Oriented Programming Lab	Yes		
69	10B11CI614	Object Oriented Systems and Programming	Yes		
70	10B17CI674	Object Oriented Systems and Programming Lab	Yes		
71	07B51CI107	Operating Systems	Yes		
72	07B51CI708	Operating Systems Lab	Yes		
73	11B1WCI833	Parallel Computing Algorithms	Yes		
74	10B17PH171	Physics Lab - I			Yes
75	10B17PH271	Physics Lab - II			Yes
76	10B11PD111	Presentation and Communication Skills			Yes
77	10B11MA411	Probability Theory and Random Processes	Yes		Yes
78	10B11PD611	Project Management	Yes	Yes	Yes
79	18B1WEC737	Robotic Systems and Control	Yes		
80	10B11EC301	Signals and Systems	Yes		
81	10B17EC307	Signals and Systems Lab	Yes		
82	16B28CI681	Simulation Techniques Lab	Yes		
83	10B11PD511	Social and Legal issues			Yes
84	07B51CI108	Software Engineering	Yes		
85	07B51CI709	Software Engineering Lab	Yes		
86	08B51CI101	Software Testing and Debugging	Yes		
87	07B51CI701	Software Testing and Debugging Lab	Yes		



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88	11B1WPD832	Strategic Management		Yes	Yes
89	10B17CI673	System and Network Programming Lab	Yes		
90	10B11EC611	Telecommunication Network	Yes		
91	10B11CE614	Transportation Engineering	Yes		
92	18B1WHS636	Understanding India- Literary Reflections			Yes
93	10B17CI307	Unix Programming Lab	Yes		
94	10B11CE514	Water Supply Engineering	Yes		
95	07B51CI703	Web Technology Lab	Yes		

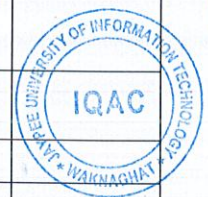
**AY 2018-19**

S. No.	Course Code	Name of the Course	Activities/Content with direct bearing on Employability	Activities/Content with direct bearing on Entrepreneurship	Activities /Content with direct bearing on Skill development
1	19B11CI111	Programming for Problem Solving-II	Yes		
2	19B17CI171	Programming for Problem Solving Lab-II	Yes		
3	18B11CI211	Data Structures and Algorithms	Yes		
4	18B17CI271	Data Structures and Algorithms Lab	Yes		
5	18B11EC312	Digital Electronics & Logic Design	Yes		
6	18B17EC372	Digital Electronics & Logic Design Lab	Yes		
7	18B11EC313	Electronic Devices & Circuits	Yes		
8	18B11EC373	Electronic Devices & Circuits Lab	Yes		
9	18B11EC311	Automatic Control Systems	Yes		
10	18B17EC371	Automatic Control Systems Lab	Yes		
11	18B11EC411	Analog Integrated Circuits	Yes		
12	18B17EC471	Analog Integrated Circuits Lab	Yes		
13	18B11EC412	Fundamentals of Signals & Systems	Yes		
14	18B17EC472	Fundamentals of Signals & Systems Lab	Yes		
15	18B11EC413	Modern Analog and Digital Communication	Yes		
16	18B17EC473	Modern Analog and Digital Communication Lab	Yes		
17	18B17EC474	Python Lab	Yes		
18	18B11EC511	Principles of Digital Signal Processing	Yes		
19	18B17EC571	Principles of Digital Signal Processing Lab	Yes		
20	18B11EC512	Microprocessor and Interfacing	Yes		
21	18B17EC572	Microprocessor and Interfacing Lab	Yes		
22	18B11EC513	Electromagnetic Waves	Yes		



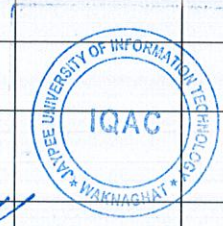
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23	18B11EC611	Wireless and Data Communication	Yes		
24	18B11EC612	VLSI Technology	Yes		
25	18B11EC671	Mini Project	Yes		
26	18B11EC672	VLSI Technology Lab	Yes		
27	18B17EC673	Advance Communication Lab	Yes		
28	18B19EC791	Project Part-I	Yes		
29	18B19EC891	Project Part-II	Yes		
30	18B1WEC534	Network Analysis and Synthesis (PE-I)	Yes		
31	18B1WEC535	Communication Engineering (PE-I)	Yes		
32	18B1WEC536	Fundamentals of Digital Image Processing (PE-I)	Yes		
33	18B1WEC631	Digital Filter Design and Applications (PE-II)	Yes		
34	18B1WEC632	Intelligent Control Systems (PE-II)	Yes		
35	18B1WEC633	Optical Communication Systems (PE-II)	Yes		
36	18B1WEC746	Microwave Theory and Techniques (PE-III)	Yes		
37	18B1WEC745	Next Generation Communication Systems (PE-III)	Yes		
38	18B1WEC744	FPGA based Instrumentation System Design (PE-III)	Yes		
39	18B1WEC743	Optimum Array Processing (PE-III)	Yes		
40	18B1WEC742	Antenna and Wave Propagation (PE-IV)	Yes		
41	18B1WEC736	OFDM and Applications (PE-IV)	Yes		
42	18B1WEC737	Robotic Systems and Control (PE-IV)	Yes		
43	18B1WEC738	Time Frequency Analysis and Applications (PE-IV)	Yes		
44	18B1WEC852	Design of Modern Antennas (PE-V)	Yes		
45	18B1WEC851	Soft Computing Techniques (PE-V)	Yes		
46	18B1WEC850	Fault Tolerant Communication Systems (PE-V)	Yes		
47	18B1WEC849	Cognitive Radio Networks (PE-V)	Yes		
48	18B1WEC848	RF Engineering (PE-VI)	Yes		
49	18B1WEC847	Medical Image Processing (PE-VI)	Yes		
50	18B1WEC846	Design of Dependable Systems (PE-VI)	Yes		
51	18B1WEC838	Artificial Intelligence Techniques (PE-VI)	Yes		



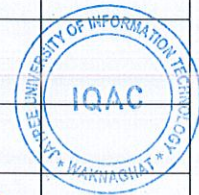
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52	18B1WEC839	Radar Principles and Applications (PE-VII)	Yes		
53	18B1WEC840	Industrial Automation and Control (PE-VII)	Yes		
54	18B1WEC841	Bio Electronic Sensors (PE-VII)	Yes		
55	18B1WEC842	Optical Networks (PE-VII)	Yes		
56	18B1WEC635	Principles of Communication Systems (OE-II)	Yes		
57	18B1WEC672	Principles of Communication Systems Lab (OE-II)	Yes		
58	18B1WEC636	Fundamentals of Digital Signal Processing and Applications (OE-II)	Yes		
59	18B1WEC673	Fundamentals of Digital Signal Processing Lab (OE-II)	Yes		
60	18B1WEC637	Principles of Wireless Communication (OE-III)	Yes		
61	18B1WEC674	Principles of Wireless Communication Lab (OE-III)	Yes		
62	18B1WEC639	Software Defined Radio and Applications (OE-III)	Yes		
63	18B1WEC676	Software Defined Radio Lab (OE-III)	Yes		
64	18B1WEC739	Optimization Techniques in Engineering (OE-IV)	Yes		
65	18B1WEC740	Electrical Machines (OE-IV)	Yes		
66	18B1WEC741	Biomedical Signal Processing (OE-IV)	Yes		
67	18B1WEC843	Industrial Internet of Things (OE-V)	Yes		
68	18B1WEC844	Wireless Ad Hoc and Sensor Networks (OE-V)	Yes		
69	18B1WEC845	Satellite Communication (OE-V)	Yes		
70	18B11HS111	English and Technical Communication		Yes	Yes
71	18B11MA111	Engineering Mathematics -1			Yes
72	18B11PH111	Engineering Physics-I			Yes
73	18B17GE173	Engineering Graphics		Yes	Yes
74	18B17PH171	Engineering Physics Lab-I			Yes
75	18B17HS171	English and Technical Communication Lab			Yes
76	18B17GE172	Mandatory Induction Programme			Yes
77	18B11MA211	Engineering Mathematics -2 (Differential Calculas)			Yes
78	18B11PH211	Engineering Physics-II			Yes
79	18B11PH271	Engineering Physics Lab - II			Yes
80	18B11EC211	Electrical Sciences			Yes
81	18B17EC271	Electrical Sciences Lab			Yes
82	18B17GE171	Workshop Practices	Yes		Yes
83	18B11CI314	Python Programming Essentials	Yes		



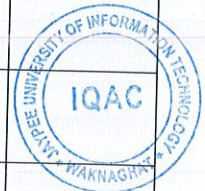
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84	18B11CI311	Object Oriented Systems and Programming	Yes		
85	18B11CI313	Database Management systems	Yes		
86	18B17CI374	Python programming Lab	Yes		
87	18B17CI371	Object Oriented Systems and Programming Lab	Yes		
88	18B17CI373	Database Management Systems Lab	Yes		
89	18B17CI372	IT Workshop (SciLab/MATLAB) Lab	Yes		
90	18B11CI414	Discrete Computational Mathematics			Yes
91	18B11CI413	Modeling and Simulation Techniques	Yes		
92	18B11CI411	Operating Systems	Yes		
93	18B11CI412	Design & Analysis of Algorithms	Yes		
94	18B11GE411	Environmental Studies			Yes
95	18B17CI473	Data Simulation Lab	Yes		
96	18B17CI471	Operating System Lab	Yes		
97	18B17CI472	Design and Analysis of Algorithms Lab	Yes		
98	18B17CI474	Web Technology Lab	Yes		
99	18B11CI515	Computer Graphics	Yes		
100	18B11CI513	Formal Language & Automata	Yes		
101	18B11CI514	Computer Organization and Architecture	Yes		
102	18B17CI575	Computer Graphics Lab	Yes		
103	18B17CI574	Computer Organization and Architecture Lab	Yes		
104	18B17CI575	Multimedia Lab	Yes		
105	18B11CI612	Compiler Design	Yes		
106	18B11CI611	Computer Networks	Yes		
107	18B17CI672	Compiler Design Lab	Yes		
108	18B17CI671	Computer Networks lab	Yes		
109	18B19CI791	Major Project-I	Yes		
110	18B19CI891	Major Project-II	Yes		
111	18B11CI315	Python Programming with Raspberry Pi	Yes		
112	18B17CI375	Python programming with Raspberry Pi Lab	Yes		
113	18B11CI414	Discrete Computational Mathematics	Yes		
114	18B17CI473	Data Simulation Lab	Yes		
115	18B17CI474	Web Tech Lab	Yes		
116	18B11CI511	Advanced Java	Yes		
117	18B11CI512	Information Systems	Yes		
118	18B17CI571	Advanced Java Lab	Yes		
119	18B17CI572	Information Systems Lab	Yes		
120	18B11CI613	Data Mining	Yes		
121	18B17CI673	Data Mining Lab	Yes		
122	18B17CE572	Environmental Engineering Lab			Yes



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123	18B11CE511	Highway Engineering	Yes		
124	18B17CE571	Highway Engineering Lab	Yes		
125	18B1WCE632	Pavement Analysis and Design	Yes		
126	18B11CE411	Geotechnical Engineering	Yes		
127	18B11CE471	Geotechnical Engineering Lab	Yes		
128	18B11CE315	Engineering Mechanics	Yes		
129	18B11CE611	Concrete Technology	Yes		
130	18B11CE515	Design of Concrete Structures	Yes		
131	18B11CE413	Computer Aided Civil Engineering Drawing	Yes		Yes
132	18B1WCE640	Optimization Techniques	Yes		
133	18B1WCE831	Advanced Reinforced Concrete Design	Yes		
134	18B11CE513	Structural Analysis	Yes		
135	18B11CE415	Mechanics of Solids	Yes		
136	18B11CE514	Foundation Engineering	Yes		
137	18B1WCE736	Dam and Reservoir design	Yes		
138	18B11CE414	Water Resources Engineering	Yes		
139	18B11CE313	Building Materials & Construction	Yes		
140	18B17CE373	Concrete Technology Lab	Yes		
141	18B11CE612	Design of Steel Structures	Yes		
142	18B1WCE738	Financial Management		Yes	Yes
143	18B17CE771	Building Drawing	Yes		Yes
144	18B11CE512	Sewage Treatment and Disposal	Yes		
145	18B1WCE834	Sustainable Development	Yes		
146	18B1 WCE639	Open Channel Flow and Hydraulic Machine	Yes		
147	18B17CE671	Computer Aided Planning and Costing	Yes		
148	18B11CE312	Surveying	Yes		
149	18B17CE372	Surveying Lab	Yes		
150	18M1WCE231	Planning, Design and Construction of Rural Road	Yes		
151	18M11BT114	Patenting in Biotechnology	Yes	Yes	
152	18M1WBT133	Advances in Computational System Biology	Yes		
153	18B11BT411	Cell Biology & Cell Culture Technologies	Yes		
154	18B17BT471	Cell Biology & Cell Culture Technology Lab	Yes		
155	18B1WBT733	Industrial Enzymes Technologies	Yes		
156	18B1WBT633	Nano-Biotechnology	Yes		
157	18B1WBT531	Phytopharmaceuticals and Biologicals	Yes		
158	18B1WBT631	Peptide Therapeutics	Yes		
159	18B1WBT632	Infectious Diseases	Yes		
160	18B1WBT831	Genetic Counselling	Yes		
161	18B1WBT532	Comparative and Functional Genomics	Yes		

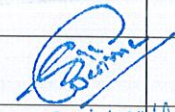


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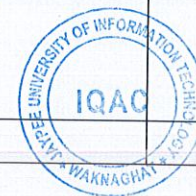
162	18B1WBI831	Computational Molecular Evolution	Yes		
163	18B1WBT833	Diagnostics & Vaccine Manufacturing	Yes		
164	18B1WBT832	Traditional Bioprocessing & Their Up Scaling	Yes		
165	18B1WBI531	Structural Bioinformatics	Yes		
166	18B1WBT734	Intellectual Property Rights & Commercialization	Yes	Yes	
167	18B11BT311	Genetics	Yes		
168	18B11BT312	Biochemistry			Yes
169	18B11BT313	Thermodynamics & Chemical Processes			Yes
170	18B11BT314	General Chemistry			Yes
171	18B17BT371	Genetics Lab.			Yes
172	18B17BT372	Biochemistry Lab			Yes
173	18B17BT373	Thermodynamics & Chemical Processes lab			Yes
174	18B17BT374	General Chemistry Lab			Yes
175	18B11BT412	Molecular Biology	Yes		
176	18B11BT413	Introduction to Bioinformatics	Yes		
177	18B11BT414	Microbiology	Yes		
178	18B17BT472	Molecular Biology Lab	Yes		
179	18B17BT473	Introduction to Bioinformatics Lab	Yes		
180	18B17BT474	Microbiology Lab	Yes		
181	18B11BT511	Bioprocess Engineering	Yes		
182	18B11BT512	Genetic Engineering	Yes		
183	18B11BT513	Immunology	Yes		
184	18B17BT571	Bioprocess Engineering Lab	Yes		
185	18B17BT572	Genetic Engineering Lab	Yes		
186	18B17BT573	Immunology Lab	Yes		
187	18B19BT591	Minor Project Part-I	Yes		
188	18B11BT611	Downstream Processing	Yes		
189	18B11BT612	Food and Agricultural Biotechnology		Yes	
190	18B17BT671	Downstream Processing Lab.	Yes		
191	18B17BT672	Food and Agricultural Biotechnology Lab		Yes	
192	18B19BT691	Minor Project Part-II	Yes		
193	18B19BT791	Major Project Part I	Yes		
194	18B19BT891	Major Project Part II	Yes		
195	18B11BT111	Fundamental Biology			Yes
196	18B17BT171	Fundamental Biology lab			Yes
197	18B11BI311	Cell and Molecular Biology	Yes		
198	18B11BI312	Microbiology & Immune System	Yes		
199	18B11BI313	Biological Computation	Yes		
200	18B17BI371	Cell and Molecular Biology Lab	Yes		
201	18B17BI372	Microbiology & Immune System Lab	Yes		
202	18B17BI373	Biological Computation Lab	Yes		



  
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203	18B17BI374	Linux Lab	Yes		
204	18B11BI412	Genetic Engineering and Genomics	Yes		
205	18B11BI413	Structural Biology			Yes
206	18B11BI414	Programming Languages for Bioinformatics	Yes		
207	18B17BI472	Genetic Engineering and Genomics Lab	Yes		
208	18B17BI473	Structural Biology Lab			Yes
209	18B17BI474	Programming Languages for Bioinformatics Lab	Yes		
210	18B11BI512	Scripting Languages for Bioinformatics	Yes		
211	18B17BI572	Scripting Languages for Bioinformatics Lab	Yes		
212	18B17BI573	Structural Bioinformatics Lab	Yes		
213	18B19BI591	Minor Project Part-I	Yes		
214	18B11BI611	Machine Learning for Bioinformatics	Yes		
215	18B11BI612	Computer Aided Drug Design	Yes		
216	18B17BI671	Machine Learning for Bioinformatics Lab	Yes		
217	18B17BI672	Computer Aided Drug Design Lab	Yes		
218	18B17BI673	Advanced Algorithms for Bioinformatics Lab	Yes		
219	18B17BI674	R Language Lab	Yes		
220	18B1WBT634	Bioenergy and Biofuels	Yes		
221	18B19BI691	Minor Project Part-II	Yes		
222	18B19BI791	Major Project Part I	Yes		
223	18B19BI891	Major Project Part II	Yes		
224	18B11HS311	Interpersonal Dynamics Values and Ethics			Yes
225	18B11HS411	Finance & Accounts		Yes	Yes
226	18B11HS511	Project Management and Entrepreneurship		Yes	Yes
227	18B1WHS831	Contemporary India in Globalized Era: Challenges of democracy and development			Yes
228	18B1WHS632	Business Analytics	Yes		Yes

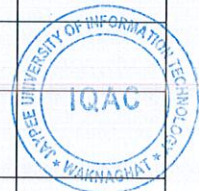
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S. No.	Course Code	Name of the Course	Activities/Content with direct bearing on Employability	Activities/Content with direct bearing on Entrepreneurship	Activities /Content with direct bearing on Skill development
1	19B11CI111	Programming for Problem Solving-II	Yes		
2	19B17CI171	Programming for Problem Solving Lab-II	Yes		

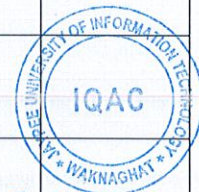
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3	18B11CI211	Data Structures and Algorithms	Yes		
4	18B17CI271	Data Structures and Algorithms Lab	Yes		
5	18B11EC312	Digital Electronics & Logic Design	Yes		
6	18B17EC372	Digital Electronics & Logic Design Lab	Yes		
7	18B11EC313	Electronic Devices & Circuits	Yes		
8	18B11EC373	Electronic Devices & Circuits Lab	Yes		
9	18B11EC311	Automatic Control Systems	Yes		
10	18B17EC371	Automatic Control Systems Lab	Yes		
11	18B11EC411	Analog Integrated Circuits	Yes		
12	18B17EC471	Analog Integrated Circuits Lab	Yes		
13	18B11EC412	Fundamentals of Signals & Systems	Yes		
14	18B17EC472	Fundamentals of Signals & Systems Lab	Yes		
15	18B11EC413	Modern Analog and Digital Communication	Yes		
16	18B17EC473	Modern Analog and Digital Communication Lab	Yes		
17	18B17EC474	Python Lab	Yes		
18	18B11EC511	Principles of Digital Signal Processing	Yes		
19	18B17EC571	Principles of Digital Signal Processing Lab	Yes		
20	18B11EC512	Microprocessor and Interfacing	Yes		
21	18B17EC572	Microprocessor and Interfacing Lab	Yes		
22	18B11EC513	Electromagnetic Waves	Yes		
23	18B11EC611	Wireless and Data Communication	Yes		
24	18B11EC612	VLSI Technology	Yes		
25	18B11EC671	Mini Project	Yes		
26	18B11EC672	VLSI Technology Lab	Yes		
27	18B17EC673	Advance Communication Lab	Yes		
28	18B19EC791	Project Part-I	Yes		
29	18B19EC891	Project Part-II	Yes		
30	18B1WEC534	Network Analysis and Synthesis (PE-I)	Yes		
31	18B1WEC535	Communication Engineering (PE-I)	Yes		
32	18B1WEC536	Fundamentals of Digital Image Processing (PE-I)	Yes		
33	18B1WEC631	Digital Filter Design and Applications (PE-II)	Yes		
34	18B1WEC632	Intelligent Control Systems (PE-II)	Yes		
35	18B1WEC633	Optical Communication Systems (PE-II)	Yes		
36	18B1WEC746	Microwave Theory and Techniques (PE-III)	Yes		
37	18B1WEC745	Next Generation Communication Systems (PE-	Yes		



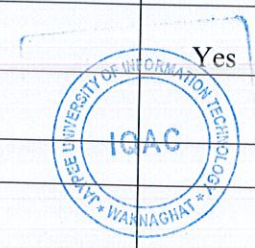
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		III)			
38	18B1WEC744	FPGA based Instrumentation System Design (PE-III)	Yes		
39	18B1WEC743	Optimum Array Processing (PE-III)	Yes		
40	18B1WEC742	Antenna and Wave Propagation (PE-IV)	Yes		
41	18B1WEC736	OFDM and Applications (PE-IV)	Yes		
42	18B1WEC737	Robotic Systems and Control (PE-IV)	Yes		
43	18B1WEC738	Time Frequency Analysis and Applications (PE-IV)	Yes		
44	18B1WEC852	Design of Modern Antennas (PE-V)	Yes		
45	18B1WEC851	Soft Computing Techniques (PE-V)	Yes		
46	18B1WEC850	Fault Tolerant Communication Systems (PE-V)	Yes		
47	18B1WEC849	Cognitive Radio Networks (PE-V)	Yes		
48	18B1WEC848	RF Engineering (PE-VI)	Yes		
49	18B1WEC847	Medical Image Processing (PE-VI)	Yes		
50	18B1WEC846	Design of Dependable Systems (PE-VI)	Yes		
51	18B1WEC838	Artificial Intelligence Techniques (PE-VI)	Yes		
52	18B1WEC839	Radar Principles and Applications (PE-VII)	Yes		
53	18B1WEC840	Industrial Automation and Control (PE-VII)	Yes		
54	18B1WEC841	Bio Electronic Sensors (PE-VII)	Yes		
55	18B1WEC842	Optical Networks (PE-VII)	Yes		
56	18B1WEC635	Principles of Communication Systems (OE-II)	Yes		
57	18B1WEC672	Principles of Communication Systems Lab (OE-II)	Yes		
58	18B1WEC636	Fundamentals of Digital Signal Processing and Applications (OE-II)	Yes		
59	18B1WEC673	Fundamentals of Digital Signal Processing Lab (OE-II)	Yes		
60	18B1WEC637	Principles of Wireless Communication (OE-III)	Yes		
61	18B1WEC674	Principles of Wireless Communication Lab (OE-III)	Yes		
62	18B1WEC639	Software Defined Radio and Applications (OE-III)	Yes		
63	18B1WEC676	Software Defined Radio Lab (OE-III)	Yes		



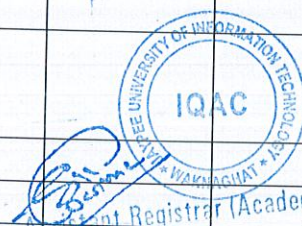
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64	18B1WEC739	Optimization Techniques in Engineering (OE-IV)	Yes		
65	18B1WEC740	Electrical Machines (OE-IV)	Yes		
66	18B1WEC741	Biomedical Signal Processing (OE-IV)	Yes		
67	18B1WEC843	Industrial Internet of Things (OE-V)	Yes		
68	18B1WEC844	Wireless Ad Hoc and Sensor Networks (OE-V)	Yes		
69	18B1WEC845	Satellite Communication (OE-V)	Yes		
70	18B11HS111	English and Technical Communication		Yes	Yes
71	18B11MA111	Engineering Mathematics -1			Yes
72	18B11PH111	Engineering Physics-I			Yes
73	18B17GE173	Engineering Graphics		Yes	Yes
74	18B17PH171	Engineering Physics Lab-I			Yes
75	18B17HS171	English and Technical Communication Lab			Yes
76	18B17GE172	Mandatory Induction Programme			Yes
77	18B11MA211	Engineering Mathematics -2 (Differential Calculas)			Yes
78	18B11PH211	Engineering Physics-II			Yes
79	18B11PH271	Engineering Physics Lab - II			Yes
80	18B11EC211	Electrical Sciences			Yes
81	18B17EC271	Electrical Sciences Lab			Yes
82	18B17GE171	Workshop Practices	Yes		Yes
83	18B11CI314	Python Programming Essentials	Yes		
84	18B11CI311	Object Oriented Systems and Programming	Yes		
85	18B11CI313	Database Management systems	Yes		
86	18B17CI374	Python programming Lab	Yes		
87	18B17CI371	Object Oriented Systems and Programming Lab	Yes		
88	18B17CI373	Database Management Systems Lab	Yes		
89	18B17CI372	IT Workshop (SciLab/MATLAB) Lab	Yes		
90	18B11CI414	Discrete Computational Mathematics			Yes
91	18B11CI413	Modeling and Simulation Techniques	Yes		
92	18B11CI411	Operating Systems	Yes		
93	18B11CI412	Design & Analysis of Algorithms	Yes		
94	18B11GE411	Environmental Studies			Yes
95	18B17CI473	Data Simulation Lab	Yes		
96	18B17CI471	Operating System Lab	Yes		
97	18B17CI472	Design and Analysis of Algorithms Lab	Yes		
98	18B17CI474	Web Technology Lab	Yes		
99	18B11CI515	Computer Graphics	Yes		
100	18B11CI513	Formal Language & Automata	Yes		



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101	18B11CI514	Computer Organization and Architecture	Yes		
102	18B17CI575	Computer Graphics Lab	Yes		
103	18B17CI574	Computer Organization and Architecture Lab	Yes		
104	18B1WCI575	Multimedia Lab	Yes		
105	18B11CI612	Compiler Design	Yes		
106	18B11CI611	Computer Networks	Yes		
107	18B17CI672	Compiler Design Lab	Yes		
108	18B17CI671	Computer Networks lab	Yes		
109	18B19CI791	Major Project-I	Yes		
110	18B19CI891	Major Project-II	Yes		
111	18B11CI315	Python Programming with Raspberry Pi	Yes		
112	18B17CI375	Python programming with Raspberry Pi Lab	Yes		
113	18B11CI414	Discrete Computational Mathematics	Yes		
114	19B11CI411	Software Engineering Practices	Yes		
115	18B17CI473	Data Simulation Lab	Yes		
116	19B17CI471	Software Engineering Practices Lab	Yes		
117	18B17CI474	Web Tech Lab	Yes		
118	18B11CI511	Advanced Java	Yes		
119	18B11CI512	Information Systems	Yes		
120	18B17CI571	Advanced Java Lab	Yes		
121	18B17CI572	Information Systems Lab	Yes		
122	18B11CI613	Data Mining	Yes		
123	18B17CI673	Data Mining Lab	Yes		
124	18B17CE572	Environmental Engineering Lab			Yes
125	18B11CE511	Highway Engineering	Yes		
126	18B17CE571	Highway Engineering Lab	Yes		
127	18B1WCE632	Pavement Analysis and Design	Yes		
128	18B11CE411	Geotechnical Engineering	Yes		
129	18B11CE471	Geotechnical Engineering Lab	Yes		
130	18B11CE315	Engineering Mechanics	Yes		
131	18B11CE611	Concrete Technology	Yes		
132	18B11CE515	Design of Concrete Structures	Yes		
133	18B11CE413	Computer Aided Civil Engineering Drawing	Yes		Yes
134	18B1WCE640	Optimization Techniques	Yes		
135	18B1WCE831	Advanced Reinforced Concrete Design	Yes		
136	18B11CE513	Structural Analysis	Yes		
137	18B11CE415	Mechanics of Solids	Yes		
138	18B11CE514	Foundation Engineering	Yes		
139	18B1WCE736	Dam and Reservoir design	Yes		
140	18B11CE414	Water Resources Engineering	Yes		
141	18B11CE313	Building Materials & Construction	Yes		



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142	18B17CE373	Concrete Technology Lab	Yes		
143	18B11CE612	Design of Steel Structures	Yes		
144	18B1WCE738	Financial Management		Yes	Yes
145	18B17CE771	Building Drawing	Yes		Yes
146	18B11CE512	Sewage Treatment and Disposal	Yes		
147	18B1WCE834	Sustainable Development	Yes		
148	18B1 WCE639	Open Channel Flow and Hydraulic Machine	Yes		
149	18B17CE671	Computer Aided Planning and Costing	Yes		
150	18B11CE312	Surveying	Yes		
151	18B17CE372	Surveying Lab	Yes		
152	18M1WCE231	Planning, Design and Construction of Rural Road	Yes		
153	18M11BT114	Patenting in Biotechnology	Yes	Yes	
154	18M1WBT133	Advances in Computational System Biology	Yes		
155	18B11BT411	Cell Biology & Cell Culture Technologies	Yes		
156	18B17BT471	Cell Biology & Cell Culture Technology Lab	Yes		
157	18B1WBT733	Industrial Enzymes Technologies	Yes		
158	18B1WBT633	Nano-Biotechnology	Yes		
159	18B1WBT531	Phytopharmaceuticals and Biologicals	Yes		
160	18B1WBT631	Peptide Therapeutics	Yes		
161	18B1WBT632	Infectious Diseases	Yes		
162	18B1WBT831	Genetic Counselling	Yes		
163	18B1WBT532	Comparative and Functional Genomics	Yes		
164	18B1WBI831	Computational Molecular Evolution	Yes		
165	18B1WBT833	Diagnostics & Vaccine Manufacturing	Yes		
166	18B1WBT832	Traditional Bioprocessing & Their Up Scaling	Yes		
167	18B1WBI531	Structural Bioinformatics	Yes		
168	18B1WBT734	Intellectual Property Rights & Commercialization	Yes	Yes	
169	18B11BT311	Genetics	Yes		
170	18B11BT312	Biochemistry			Yes
171	18B11BT313	Thermodynamics & Chemical Processes			Yes
172	18B11BT314	General Chemistry			Yes
173	18B17BT371	Genetics Lab.			Yes
174	18B17BT372	Biochemistry Lab			Yes
175	18B17BT373	Thermodynamics & Chemical Processes lab			Yes
176	18B17BT374	General Chemistry Lab			Yes
177	18B11BT412	Molecular Biology	Yes		
178	18B11BT413	Introduction to Bioinformatics	Yes		



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179	18B11BT414	Microbiology	Yes		
180	18B17BT472	Molecular Biology Lab	Yes		
181	18B17BT473	Introduction to Bioinformatics Lab	Yes		
182	18B17BT474	Microbiology Lab	Yes		
183	18B11BT511	Bioprocess Engineering	Yes		
184	18B11BT512	Genetic Engineering	Yes		
185	18B11BT513	Immunology	Yes		
186	18B17BT571	Bioprocess Engineering Lab	Yes		
187	18B17BT572	Genetic Engineering Lab	Yes		
188	18B17BT573	Immunology Lab	Yes		
189	18B19BT591	Minor Project Part-I	Yes		
190	18B11BT611	Downstream Processing	Yes		
191	18B11BT612	Food and Agricultural Biotechnology		Yes	
192	18B17BT671	Downstream Processing Lab.	Yes		
193	18B17BT672	Food and Agricultural Biotechnology Lab		Yes	
194	18B19BT691	Minor Project Part-II	Yes		
195	18B19BT791	Major Project Part I	Yes		
196	18B19BT891	Major Project Part II	Yes		
197	18B11BT111	Fundamental Biology			Yes
198	18B17BT171	Fundamental Biology lab			Yes
199	18B11BI311	Cell and Molecular Biology	Yes		
200	18B11BI312	Microbiology & Immune System	Yes		
201	18B11BI313	Biological Computation	Yes		
202	18B17BI371	Cell and Molecular Biology Lab	Yes		
203	18B17BI372	Microbiology & Immune System Lab	Yes		
204	18B17BI373	Biological Computation Lab	Yes		
205	18B17BI374	Linux Lab	Yes		
206	18B11BI412	Genetic Engineering and Genomics	Yes		
207	18B11BI413	Structural Biology			Yes
208	18B11BI414	Programming Languages for Bioinformatics	Yes		
209	18B17BI472	Genetic Engineering and Genomics Lab	Yes		
210	18B17BI473	Structural Biology Lab			Yes
211	18B17BI474	Programming Languages for Bioinformatics Lab	Yes		
212	18B11BI512	Scripting Languages for Bioinformatics	Yes		
213	18B17BI572	Scripting Languages for Bioinformatics Lab	Yes		
214	18B17BI573	Structural Bioinformatics Lab	Yes		
215	18B19BI591	Minor Project Part-I	Yes		
216	18B11BI611	Machine Learning for Bioinformatics	Yes		
217	18B11BI612	Computer Aided Drug Design	Yes		
218	18B17BI671	Machine Learning for Bioinformatics Lab	Yes		



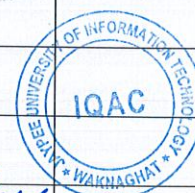
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219	18B17BI672	Computer Aided Drug Design Lab	Yes		
220	18B17BI673	Advanced Algorithms for Bioinformatics Lab	Yes		
221	18B17BI674	R Language Lab	Yes		
222	18B1WBT634	Bioenergy and Biofuels	Yes		
223	18B19BI691	Minor Project Part-II	Yes		
224	18B19BI791	Major Project Part I	Yes		
225	18B19BI891	Major Project Part II	Yes		
226	18B11HS311	Interpersonal Dynamics Values and Ethics			Yes
227	18B11HS411	Finance & Accounts		Yes	Yes
228	18B11HS511	Project Management and Entrepreneurship		Yes	Yes
229	18B1WHS831	Contemporary India in Globalized Era: Challenges of democracy and development			Yes
230	18B1WHS632	Business Analytics	Yes		Yes
231	18B1WPH731	Nanotechnology	Yes		Yes
232	18B1WPH732	Optical Fibre Network Design	Yes		Yes
233	181WPH831	Optoelectronic Devices			Yes
234	18B1WPH532	Applied Materials Science			Yes
235	18B1WPH531	Science and Technology of Materials			Yes
236	18B1WPH212	Bioinstrumentation Techniques			Yes
237	19B1WBT731	Sustainable Technologies for Waste Management	Yes		
238	19B1WBT732	Food Nutrition & Health Care	Yes		

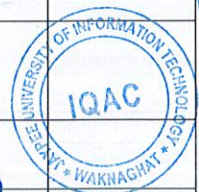
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S. No.	Course Code	Name of the Course	Activities/Content with direct bearing on Employability	Activities/Content with direct bearing on Entrepreneurship	Activities /Content with direct bearing on Skill development
1	19B11CI111	Programming for Problem Solving-II	Yes		
2	19B17CI171	Programming for Problem Solving Lab-II	Yes		
3	18B11CI211	Data Structures and Algorithms	Yes		
4	18B17CI271	Data Structures and Algorithms Lab	Yes		
5	18B11EC312	Digital Electronics & Logic Design	Yes		
6	18B17EC372	Digital Electronics & Logic Design Lab	Yes		
7	18B11EC313	Electronic Devices & Circuits	Yes		
8	18B11EC373	Electronic Devices & Circuits Lab	Yes		
9	18B11EC311	Automatic Control Systems	Yes		
10	18B17EC371	Automatic Control Systems Lab	Yes		
11	18B11EC411	Analog Integrated Circuits	Yes		
12	18B17EC471	Analog Integrated Circuits Lab	Yes		



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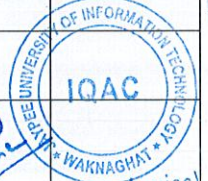
13	18B11EC412	Fundamentals of Signals & Systems	Yes		
14	18B17EC472	Fundamentals of Signals & Systems Lab	Yes		
15	18B11EC413	Modern Analog and Digital Communication	Yes		
16	18B17EC473	Modern Analog and Digital Communication Lab	Yes		
17	18B17EC474	Python Lab	Yes		
18	18B11EC511	Principles of Digital Signal Processing	Yes		
19	18B17EC571	Principles of Digital Signal Processing Lab	Yes		
20	18B11EC512	Microprocessor and Interfacing	Yes		
21	18B17EC572	Microprocessor and Interfacing Lab	Yes		
22	18B11EC513	Electromagnetic Waves	Yes		
23	18B11EC611	Wireless and Data Communication	Yes		
24	18B11EC612	VLSI Technology	Yes		
25	18B11EC671	Mini Project	Yes		
26	18B11EC672	VLSI Technology Lab	Yes		
27	18B17EC673	Advance Communication Lab	Yes		
28	18B19EC791	Project Part-I	Yes		
29	18B19EC891	Project Part-II	Yes		
30	18B1WEC534	Network Analysis and Synthesis (PE-I)	Yes		
31	18B1WEC535	Communication Engineering (PE-I)	Yes		
32	18B1WEC536	Fundamentals of Digital Image Processing (PE-I)	Yes		
33	18B1WEC631	Digital Filter Design and Applications (PE-II)	Yes		
34	18B1WEC632	Intelligent Control Systems (PE-II)	Yes		
35	18B1WEC633	Optical Communication Systems (PE-II)	Yes		
36	18B1WEC746	Microwave Theory and Techniques (PE-III)	Yes		
37	18B1WEC745	Next Generation Communication Systems (PE-III)	Yes		
38	18B1WEC744	FPGA based Instrumentation System Design (PE-III)	Yes		
39	18B1WEC743	Optimum Array Processing (PE-III)	Yes		
40	18B1WEC742	Antenna and Wave Propagation (PE-IV)	Yes		
41	18B1WEC736	OFDM and Applications (PE-IV)	Yes		
42	18B1WEC737	Robotic Systems and Control (PE-IV)	Yes		
43	18B1WEC738	Time Frequency Analysis and Applications (PE-IV)	Yes		



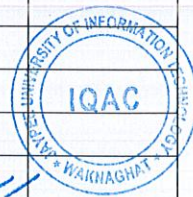
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44	18B1WEC852	Design of Modern Antennas (PE-V)	Yes		
45	18B1WEC851	Soft Computing Techniques (PE-V)	Yes		
46	18B1WEC850	Fault Tolerant Communication Systems (PE-V)	Yes		
47	18B1WEC849	Cognitive Radio Networks (PE-V)	Yes		
48	18B1WEC848	RF Engineering (PE-VI)	Yes		
49	18B1WEC847	Medical Image Processing (PE-VI)	Yes		
50	18B1WEC846	Design of Dependable Systems (PE-VI)	Yes		
51	18B1WEC838	Artificial Intelligence Techniques (PE-VI)	Yes		
52	18B1WEC839	Radar Principles and Applications (PE-VII)	Yes		
53	18B1WEC840	Industrial Automation and Control (PE-VII)	Yes		
54	18B1WEC841	Bio Electronic Sensors (PE-VII)	Yes		
55	18B1WEC842	Optical Networks (PE-VII)	Yes		
56	18B1WEC635	Principles of Communication Systems (OE-II)	Yes		
57	18B1WEC672	Principles of Communication Systems Lab (OE-II)	Yes		
58	18B1WEC636	Fundamentals of Digital Signal Processing and Applications (OE-II)	Yes		
59	18B1WEC673	Fundamentals of Digital Signal Processing Lab (OE-II)	Yes		
60	18B1WEC637	Principles of Wireless Communication (OE-III)	Yes		
61	18B1WEC674	Principles of Wireless Communication Lab (OE-III)	Yes		
62	18B1WEC639	Software Defined Radio and Applications (OE-III)	Yes		
63	18B1WEC676	Software Defined Radio Lab (OE-III)	Yes		
64	18B1WEC739	Optimization Techniques in Engineering (OE-IV)	Yes		
65	18B1WEC740	Electrical Machines (OE-IV)	Yes		
66	18B1WEC741	Biomedical Signal Processing (OE-IV)	Yes		
67	18B1WEC843	Industrial Internet of Things (OE-V)	Yes		
68	18B1WEC844	Wireless Ad Hoc and Sensor Networks (OE-V)	Yes		
69	18B1WEC845	Satellite Communication (OE-V)	Yes		
70	18B11HS111	English and Technical Communication	Yes	Yes	Yes
71	18B11MA111	Engineering Mathematics -1			Yes
72	18B11PH111	Engineering Physics-I			Yes
73	18B17GE173	Engineering Graphics	Yes	Yes	Yes
74	18B17PH171	Engineering Physics Lab-I			Yes

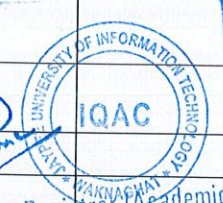
  
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75	18B17HS171	English and Technical Communication Lab			Yes
76	18B17GE172	Mandatory Induction Programme			Yes
77	18B11MA211	Engineering Mathematics -2 (Differential Calculus)			Yes
78	18B11PH211	Engineering Physics-II			Yes
79	18B11PH271	Engineering Physics Lab - II			Yes
80	18B11EC211	Electrical Sciences			Yes
81	18B17EC271	Electrical Sciences Lab			Yes
82	18B17GE171	Workshop Practices	Yes		Yes
83	18B11CI314	Python Programming Essentials	Yes		
84	18B11CI311	Object Oriented Systems and Programming	Yes		
85	18B11CI313	Database Management systems	Yes		
86	18B17CI374	Python programming Lab	Yes		
87	18B17CI371	Object Oriented Systems and Programming Lab	Yes		
88	18B17CI373	Database Management Systems Lab	Yes		
89	18B17CI372	IT Workshop (SciLab/MATLAB) Lab	Yes		
90	18B11CI414	Discrete Computational Mathematics			Yes
91	18B11CI413	Modeling and Simulation Techniques	Yes		
92	18B11CI411	Operating Systems	Yes		
93	18B11CI412	Design & Analysis of Algorithms	Yes		
94	18B11GE411	Environmental Studies			Yes
95	18B17CI473	Data Simulation Lab	Yes		
96	18B17CI471	Operating System Lab	Yes		
97	18B17CI472	Design and Analysis of Algorithms Lab	Yes		
98	18B17CI474	Web Technology Lab	Yes		
99	18B11CI515	Computer Graphics	Yes		
100	18B11CI513	Formal Language & Automata	Yes		
101	18B11CI514	Computer Organization and Architecture	Yes		
102	18B17CI575	Computer Graphics Lab	Yes		
103	18B17CI574	Computer Organization and Architecture Lab	Yes		
104	18B17CI575	Multimedia Lab	Yes		
105	18B11CI612	Compiler Design	Yes		
106	18B11CI611	Computer Networks	Yes		
107	18B17CI672	Compiler Design Lab	Yes		
108	18B17CI671	Computer Networks lab	Yes		
109	18B19CI791	Major Project-I	Yes		
110	18B19CI891	Major Project-II	Yes		
111	18B11CI315	Python Programming with Raspberry Pi	Yes		
112	18B17CI375	Python programming with Raspberry Pi Lab	Yes		



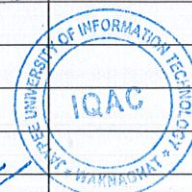
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113	18B11CI414	Discrete Computational Mathematics	Yes		
114	19B11CI411	Software Engineering Practices	Yes		
115	18B17CI473	Data Simulation Lab	Yes		
116	19B17CI471	Software Engineering Practices Lab	Yes		
117	18B17CI474	Web Tech Lab	Yes		
118	18B11CI511	Advanced Java	Yes		
119	18B11CI512	Information Systems	Yes		
120	18B17CI571	Advanced Java Lab	Yes		
121	18B17CI572	Information Systems Lab	Yes		
122	18B11CI613	Data Mining	Yes		
123	18B17CI673	Data Mining Lab	Yes		
124	18B17CE572	Environmental Engineering Lab			Yes
125	18B11CE511	Highway Engineering	Yes		
126	18B17CE571	Highway Engineering Lab	Yes		
127	18B1WCE632	Pavement Analysis and Design	Yes		
128	18B11CE411	Geotechnical Engineering	Yes		
129	18B11CE471	Geotechnical Engineering Lab	Yes		
130	18B11CE315	Engineering Mechanics	Yes		
131	18B11CE611	Concrete Technology	Yes		
132	18B11CE515	Design of Concrete Structures	Yes		
133	18B11CE413	Computer Aided Civil Engineering Drawing	Yes		Yes
134	18B1WCE640	Optimization Techniques	Yes		
135	18B1WCE831	Advanced Reinforced Concrete Design	Yes		
136	18B11CE513	Structural Analysis	Yes		
137	18B11CE415	Mechanics of Solids	Yes		
138	18B11CE514	Foundation Engineering	Yes		
139	18B1WCE736	Dam and Reservoir design	Yes		
140	18B11CE414	Water Resources Engineering	Yes		
141	18B11CE313	Building Materials & Construction	Yes		
142	18B17CE373	Concrete Technology Lab	Yes		
143	18B11CE612	Design of Steel Structures	Yes		
144	18B1WCE738	Financial Management		Yes	Yes
145	18B17CE771	Building Drawing	Yes		Yes
146	18B11CE512	Sewage Treatment and Disposal	Yes		
147	18B1WCE834	Sustainable Development	Yes		
148	18B1 WCE639	Open Channel Flow and Hydraulic Machine	Yes		
149	18B17CE671	Computer Aided Planning and Costing	Yes		
150	18B11CE312	Surveying	Yes		
151	18B17CE372	Surveying Lab	Yes		
152	18M1WCE231	Planning, Design and Construction of Rural Road	Yes		
153	18M11BT114	Patenting in Biotechnology	Yes	Yes	
154	18M1WBT133	Advances in Computational System Biology	Yes		

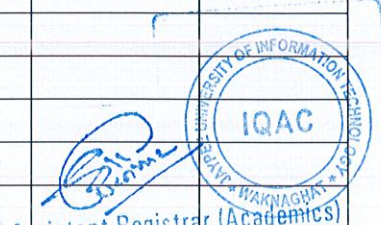
  
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155	18B11BT411	Cell Biology & Cell Culture Technologies	Yes		
156	18B17BT471	Cell Biology & Cell Culture Technology Lab	Yes		
157	18B1WBT733	Industrial Enzymes Technologies	Yes		
158	18B1WBT633	Nano-Biotechnology	Yes		
159	18B1WBT531	Phytopharmaceuticals and Biologicals	Yes		
160	18B1WBT631	Peptide Therapeutics	Yes		
161	18B1WBT632	Infectious Diseases	Yes		
162	18B1WBT831	Genetic Counselling	Yes		
163	18B1WBT532	Comparative and Functional Genomics	Yes		
164	18B1WBI831	Computational Molecular Evolution	Yes		
165	18B1WBT833	Diagnostics & Vaccine Manufacturing	Yes		
166	18B1WBT832	Traditional Bioprocessing & Their Up Scaling	Yes		
167	18B1WBI531	Structural Bioinformatics	Yes		
168	18B1WBT734	Intellectual Property Rights & Commercialization	Yes	Yes	
169	18B11BT311	Genetics	Yes		
170	18B11BT312	Biochemistry			Yes
171	18B11BT313	Thermodynamics & Chemical Processes			Yes
172	18B11BT314	General Chemistry			Yes
173	18B17BT371	Genetics Lab.			Yes
174	18B17BT372	Biochemistry Lab			Yes
175	18B17BT373	Thermodynamics & Chemical Processes lab			Yes
176	18B17BT374	General Chemistry Lab			Yes
177	18B11BT412	Molecular Biology	Yes		
178	18B11BT413	Introduction to Bioinformatics	Yes		
179	18B11BT414	Microbiology	Yes		
180	18B17BT472	Molecular Biology Lab	Yes		
181	18B17BT473	Introduction to Bioinformatics Lab	Yes		
182	18B17BT474	Microbiology Lab	Yes		
183	18B11BT511	Bioprocess Engineering	Yes		
184	18B11BT512	Genetic Engineering	Yes		
185	18B11BT513	Immunology	Yes		
186	18B17BT571	Bioprocess Engineering Lab	Yes		
187	18B17BT572	Genetic Engineering Lab	Yes		
188	18B17BT573	Immunology Lab	Yes		
189	18B19BT591	Minor Project Part-I	Yes		
190	18B11BT611	Downstream Processing	Yes		
191	18B11BT612	Food and Agricultural Biotechnology		Yes	
192	18B17BT671	Downstream Processing Lab.	Yes		
193	18B17BT672	Food and Agricultural Biotechnology Lab		Yes	

  
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194	18B19BT691	Minor Project Part-II	Yes		
195	18B19BT791	Major Project Part I	Yes		
196	18B19BT891	Major Project Part II	Yes		
197	18B11BT111	Fundamental Biology			Yes
198	18B17BT171	Fundamental Biology lab			Yes
199	18B11BI311	Cell and Molecular Biology	Yes		
200	18B11BI312	Microbiology & Immune System	Yes		
201	18B11BI313	Biological Computation	Yes		
202	18B17BI371	Cell and Molecular Biology Lab	Yes		
203	18B17BI372	Microbiology & Immune System Lab	Yes		
204	18B17BI373	Biological Computation Lab	Yes		
205	18B17BI374	Linux Lab	Yes		
206	18B11BI412	Genetic Engineering and Genomics	Yes		
207	18B11BI413	Structural Biology			Yes
208	18B11BI414	Programming Languages for Bioinformatics	Yes		
209	18B17BI472	Genetic Engineering and Genomics Lab	Yes		
210	18B17BI473	Structural Biology Lab			Yes
211	18B17BI474	Programming Languages for Bioinformatics Lab	Yes		
212	18B11BI512	Scripting Languages for Bioinformatics	Yes		
213	18B17BI572	Scripting Languages for Bioinformatics Lab	Yes		
214	18B17BI573	Structural Bioinformatics Lab	Yes		
215	18B19BI591	Minor Project Part-I	Yes		
216	18B11BI611	Machine Learning for Bioinformatics	Yes		
217	18B11BI612	Computer Aided Drug Design	Yes		
218	18B17BI671	Machine Learning for Bioinformatics lab	Yes		
219	18B17BI672	Computer Aided Drug Design Lab	Yes		
220	18B17BI673	Advanced Algorithms for Bioinformatics Lab	Yes		
221	18B17BI674	R Language Lab	Yes		
222	18B1WBT634	Bioenergy and Biofuels	Yes		
223	18B19BI691	Minor Project Part-II	Yes		
224	18B19BI791	Major Project Part I	Yes		
225	18B19BI891	Major Project Part II	Yes		
226	18B11HS311	Interpersonal Dynamics Values and Ethics			Yes
227	18B11HS411	Finance & Accounts		Yes	Yes
228	18B11HS511	Project Management and Entrepreneurship		Yes	Yes
229	18B1WHS632	Business Analytics	Yes		Yes

  
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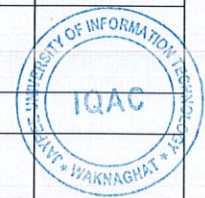
230	18B1WPH731	Nanotechnology	Yes		Yes
231	18B1WPH732	Optical Fibre Network Design	Yes		Yes
232	181WPH831	Optoelectronic Devices			Yes
233	18B1WPH532	Applied Materials Science			Yes
234	18B1WPH531	Science and Technology of Materials			Yes
235	18B1WPH212	Bioinstrumentation Techniques			Yes
236	19B1WBT731	Sustainable Technologies for Waste Management	Yes		
237	19B1WBT732	Food Nutrition & Health Care	Yes		
238	20B1WBT631	Manufacturing Process and Industrial Products	Yes		
239	20B11BI311	Bioinformatics Data Management	Yes		
240	20B17BI371	Bioinformatics Data Management Lab	Yes		
241	19B1WEC631	Embedded System Design	Yes		
242	19B1WEC632	Machine Learning for Data Analysis	Yes		
243	19B1WEC732	Pattern Analysis in Machine Intelligence	Yes		
244	20B1WEC731	Automation and Robotics	Yes		
245	20B17EM373	Network Simulation Lab (LabView and MATLAB)	Yes		
246	20B11EM311	Object Oriented Programming Concepts	Yes		
247	20B17EM371	Object Oriented Programming Concepts Lab	Yes		
248	20B1WCI531	Foundation for Data Science and Visualization	Yes		
249	20B1WCI571	Data Science and Visualization Lab	Yes		
250	19B1WCI531	Big Data using Hadoop	Yes		
251	19B1WCI571	Big Data using Hadoop Lab	Yes		
252	19B1WCI532	Image Analysis and Pattern Recognition	Yes		
253	19B1WCI572	Image Analysis and Pattern Recognition Lab	Yes		
254	20B1WCI532	Cloud Computing: Concepts, Technology & Architecture	Yes		
255	20B1WCI572	Cloud Computing: Concepts, Technology & Architecture Lab	Yes		
256	19B1WCI533	Human-Computer Interaction	Yes		
257	19B1WCI573	Human-Computer Interaction Lab	Yes		
258	19B1WCI631	Digital Forensics	Yes		
259	19B1WCI671	Digital Forensics lab	Yes		
260	19B1WCI633	Computer Animation	Yes		
261	19B1WCI673	Computer Animation Lab	Yes		
262	19B1WCI634	Computer and Robot Vision	Yes		
263	19B1WCI674	Computer and Robot Vision lab	Yes		




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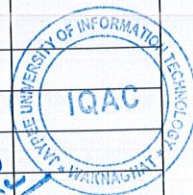


264	19B1WCI636	Computability, Complexity & Algorithms	Yes		
265	19B1WCI676	Computability, Complexity & Algorithms Lab	Yes		
266	19B1WCI638	Statistics and Data Science	Yes		
267	19B1WCI678	Statistics and Data Science Lab	Yes		
268	19B1WCI632	Information Security	Yes		
269	19B1WCI672	Information Security Lab	Yes		
270	20B1WCI732	From Graph to Knowledge Graph	Yes		
271	20B1WCI772	From Graph to Knowledge Graph Lab	Yes		
272	19B1WCI635	Architecting Distributed Cloud Applications	Yes		
273	19B1WCI675	Architecting Distributed Cloud Applications Lab	Yes		
274	19B1WCI637	Statistics and Exploratory Data Analytics	Yes		
275	19B1WCI677	Statistics and Exploratory Data Analytics Lab	Yes		
276	19B1WCI731	Computational Data Analysis	Yes		
277	19B1WCI771	Computational Data Analysis lab	Yes		
278	19B1WCI835	Cloud Computing Security	Yes		
279	19B1WCI836	Knowledge-Based AI: Cognitive Systems	Yes		
280	19B1WCI837	Reinforcement Learning	Yes		
281	19B1WCI733	Introduction to C++ Programming	Yes		
282	19B1WCI734	Object-Oriented Technologies using Java	Yes		
283	19B1WCI735	Software Testing Methodologies	Yes		
284	19B1WCI773	Introduction to C++ Programming Lab	Yes		
285	19B1WCI774	Object-Oriented Technologies using Java Lab	Yes		
286	19B1WCI775	Software Testing Methodologies Lab	Yes		
287	19B1WCI739	Software Defined Network	Yes		
288	19B1WCI740	Introduction to Statistical learning	Yes		
289	19B1WCI838	Principles of Distributed Database Systems	Yes		
290	19B1WCI839	Foundations of Blockchain	Yes		
291	19B1WCI843	Multimedia Systems and Applications	Yes		



  
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S. No.	Course Code	Name of the Course	Activities/Content with direct bearing on Employability	Activities/Content with direct bearing on Entrepreneurship	Activities/Content with direct bearing on Skill development
1	19B11CI111	Programming for Problem Solving-II	Yes		
2	19B17CI171	Programming for Problem Solving Lab-II	Yes		
3	18B11CI211	Data Structures and Algorithms	Yes		
4	18B17CI271	Data Structures and Algorithms Lab	Yes		
5	18B11EC312	Digital Electronics & Logic Design	Yes		
6	18B17EC372	Digital Electronics & Logic Design Lab	Yes		
7	18B11EC313	Electronic Devices & Circuits	Yes		
8	18B11EC373	Electronic Devices & Circuits Lab	Yes		
9	18B11EC311	Automatic Control Systems	Yes		
10	18B17EC371	Automatic Control Systems Lab	Yes		
11	18B11EC411	Analog Integrated Circuits	Yes		
12	18B17EC471	Analog Integrated Circuits Lab	Yes		
13	18B11EC412	Fundamentals of Signals & Systems	Yes		
14	18B17EC472	Fundamentals of Signals & Systems Lab	Yes		
15	18B11EC413	Modern Analog and Digital Communication	Yes		
16	18B17EC473	Modern Analog and Digital Communication Lab	Yes		
17	18B17EC474	Python Lab	Yes		
18	18B11EC511	Principles of Digital Signal Processing	Yes		
19	18B17EC571	Principles of Digital Signal Processing Lab	Yes		
20	18B11EC512	Microprocessor and Interfacing	Yes		
21	18B17EC572	Microprocessor and Interfacing Lab	Yes		
22	18B11EC513	Electromagnetic Waves	Yes		
23	18B11EC611	Wireless and Data Communication	Yes		
24	18B11EC612	VLSI Technology	Yes		
25	18B11EC671	Mini Project	Yes		
26	18B11EC672	VLSI Technology Lab	Yes		
27	18B17EC673	Advance Communication Lab	Yes		
28	18B19EC791	Project Part-I	Yes		
29	18B19EC891	Project Part-II	Yes		
30	18B1WEC534	Network Analysis and Synthesis (PE-I)	Yes		
31	18B1WEC535	Communication Engineering (PE-I)	Yes		



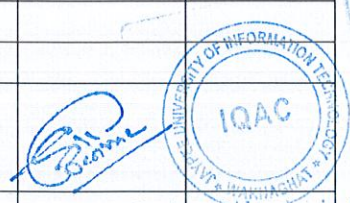
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32	18B1WEC536	Fundamentals of Digital Image Processing (PE-I)	Yes		
33	18B1WEC631	Digital Filter Design and Applications (PE-II)	Yes		
34	18B1WEC632	Intelligent Control Systems (PE-II)	Yes		
35	18B1WEC633	Optical Communication Systems (PE-II)	Yes		
36	18B1WEC746	Microwave Theory and Techniques (PE-III)	Yes		
37	18B1WEC745	Next Generation Communication Systems (PE-III)	Yes		
38	18B1WEC744	FPGA based Instrumentation System Design (PE-III)	Yes		
39	18B1WEC743	Optimum Array Processing (PE-III)	Yes		
40	18B1WEC742	Antenna and Wave Propagation (PE-IV)	Yes		
41	18B1WEC736	OFDM and Applications (PE-IV)	Yes		
42	18B1WEC737	Robotic Systems and Control (PE-IV)	Yes		
43	18B1WEC738	Time Frequency Analysis and Applications (PE-IV)	Yes		
44	18B1WEC852	Design of Modern Antennas (PE-V)	Yes		
45	18B1WEC851	Soft Computing Techniques (PE-V)	Yes		
46	18B1WEC850	Fault Tolerant Communication Systems (PE-V)	Yes		
47	18B1WEC849	Cognitive Radio Networks (PE-V)	Yes		
48	18B1WEC848	RF Engineering (PE-VI)	Yes		
49	18B1WEC847	Medical Image Processing (PE-VI)	Yes		
50	18B1WEC846	Design of Dependable Systems (PE-VI)	Yes		
51	18B1WEC838	Artificial Intelligence Techniques (PE-VI)	Yes		
52	18B1WEC839	Radar Principles and Applications (PE-VII)	Yes		
53	18B1WEC840	Industrial Automation and Control (PE-VII)	Yes		
54	18B1WEC841	Bio Electronic Sensors (PE-VII)	Yes		
55	18B1WEC842	Optical Networks (PE-VII)	Yes		
56	18B1WEC635	Principles of Communication Systems (OE-II)	Yes		
57	18B1WEC672	Principles of Communication Systems Lab (OE-II)	Yes		
58	18B1WEC636	Fundamentals of Digital Signal Processing and Applications (OE-II)	Yes		



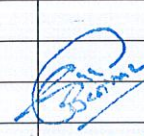
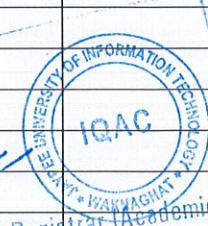
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59	18B1WEC673	Fundamentals of Digital Signal Processing Lab (OE-II)	Yes		
60	18B1WEC637	Principles of Wireless Communication (OE-III)	Yes		
61	18B1WEC674	Principles of Wireless Communication Lab (OE-III)	Yes		
62	18B1WEC639	Software Defined Radio and Applications (OE-III)	Yes		
63	18B1WEC676	Software Defined Radio Lab (OE-III)	Yes		
64	18B1WEC739	Optimization Techniques in Engineering (OE-IV)	Yes		
65	18B1WEC740	Electrical Machines (OE-IV)	Yes		
66	18B1WEC741	Biomedical Signal Processing (OE-IV)	Yes		
67	18B1WEC843	Industrial Internet of Things (OE-V)	Yes		
68	18B1WEC844	Wireless Ad Hoc and Sensor Networks (OE-V)	Yes		
69	18B1WEC845	Satellite Communication (OE-V)	Yes		
70	18B11HS111	English and Technical Communication		Yes	Yes
71	18B11MA111	Engineering Mathematics -1			Yes
72	18B11PH111	Engineering Physics-I			Yes
73	18B17GE173	Engineering Graphics		Yes	Yes
74	18B17PH171	Engineering Physics Lab-I			Yes
75	18B17HS171	English and Technical Communication Lab			Yes
76	18B17GE172	Mandatory Induction Programme			Yes
77	18B11MA211	Engineering Mathematics -2 (Differential Calculas)			Yes
78	18B11PH211	Engineering Physics-II			Yes
79	18B11PH271	Engineering Physics Lab - II			Yes
80	18B11EC211	Electrical Sciences			Yes
81	18B17EC271	Electrical Sciences Lab			Yes
82	18B17GE171	Workshop Practices	Yes		Yes
83	18B11CI314	Python Programming Essentials	Yes		
84	18B11CI311	Object Oriented Systems and Programming	Yes		
85	18B11CI313	Database Management systems	Yes		
86	18B17CI374	Python programming Lab	Yes		
87	18B17CI371	Object Oriented Systems and Programming Lab	Yes		
88	18B17CI373	Database Management Systems Lab	Yes		
89	18B17CI372	IT Workshop (SciLab/MATLAB) Lab	Yes		
90	18B11CI414	Discrete Computational Mathematics			Yes

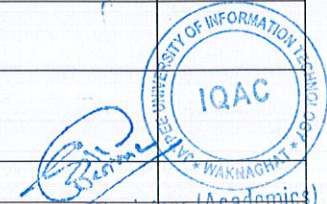


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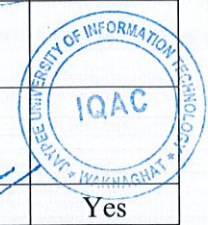
91	18B11CI413	Modeling and Simulation Techniques	Yes		
92	18B11CI411	Operating Systems	Yes		
93	18B11CI412	Design & Analysis of Algorithms	Yes		
94	18B11GE411	Environmental Studies			Yes
95	18B17CI473	Data Simulation Lab	Yes		
96	18B17CI471	Operating System Lab	Yes		
97	18B17CI472	Design and Analysis of Algorithms Lab	Yes		
98	18B17CI474	Web Technology Lab	Yes		
99	18B11CI515	Computer Graphics	Yes		
100	18B11CI513	Formal Language & Automata	Yes		
101	18B11CI514	Computer Organization and Architecture	Yes		
102	18B17CI575	Computer Graphics Lab	Yes		
103	18B17CI574	Computer Organization and Architecture Lab	Yes		
104	18B1WCI575	Multimedia Lab	Yes		
105	18B11CI612	Compiler Design	Yes		
106	18B11CI611	Computer Networks	Yes		
107	18B17CI672	Compiler Design Lab	Yes		
108	18B17CI671	Computer Networks lab	Yes		
109	18B19CI791	Major Project-I	Yes		
110	18B19CI891	Major Project-II	Yes		
111	18B11CI315	Python Programming with Raspberry Pi	Yes		
112	18B17CI375	Python programming with Raspberry Pi Lab	Yes		
113	18B11CI414	Discrete Computational Mathematics	Yes		
114	19B11CI411	Software Engineering Practices	Yes		
115	18B17CI473	Data Simulation Lab	Yes		
116	19B17CI471	Software Engineering Practices Lab	Yes		
117	18B17CI474	Web Tech Lab	Yes		
118	18B11CI511	Advanced Java	Yes		
119	18B11CI512	Information Systems	Yes		
120	18B17CI571	Advanced Java Lab	Yes		
121	18B17CI572	Information Systems Lab	Yes		
122	18B11CI613	Data Mining	Yes		
123	18B17CI673	Data Mining Lab	Yes		
124	18B17CE572	Environmental Engineering Lab			Yes
125	18B11CE511	Highway Engineering	Yes		
126	18B17CE571	Highway Engineering Lab	Yes		
127	18B1WCE632	Pavement Analysis and Design	Yes		
128	18B11CE411	Geotechnical Engineering	Yes		
129	18B11CE471	Geotechnical Engineering Lab	Yes		
130	18B11CE315	Engineering Mechanics	Yes		
131	18B11CE611	Concrete Technology	Yes		
132	18B11CE515	Design of Concrete Structures	Yes		
133	18B11CE413	Computer Aided Civil Engineering Drawing	Yes		Yes
134	18B1WCE640	Optimization Techniques	Yes		

  
  
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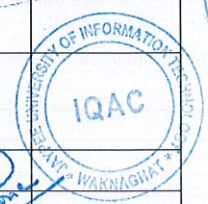
135	18B1WCE831	Advanced Reinforced Concrete Design	Yes		
136	18B11CE513	Structural Analysis	Yes		
137	18B11CE415	Mechanics of Solids	Yes		
138	18B11CE514	Foundation Engineering	Yes		
139	18B1WCE736	Dam and Reservoir design	Yes		
140	18B11CE414	Water Resources Engineering	Yes		
141	18B11CE313	Building Materials & Construction	Yes		
142	18B17CE373	Concrete Technology Lab	Yes		
143	18B11CE612	Design of Steel Structures	Yes		
144	18B1WCE738	Financial Management		Yes	Yes
145	18B17CE771	Building Drawing	Yes		Yes
146	18B11CE512	Sewage Treatment and Disposal	Yes		
147	18B1WCE834	Sustainable Development	Yes		
148	18B1 WCE639	Open Channel Flow and Hydraulic Machine	Yes		
149	18B17CE671	Computer Aided Planning and Costing	Yes		
150	18B11CE312	Surveying	Yes		
151	18B17CE372	Surveying Lab	Yes		
152	18M1WCE231	Planning, Design and Construction of Rural Road	Yes		
153	18M11BT114	Patenting in Biotechnology	Yes	Yes	
154	18M1WBT133	Advances in Computational System Biology	Yes		
155	18B11BT411	Cell Biology & Cell Culture Technologies	Yes		
156	18B17BT471	Cell Biology & Cell Culture Technology Lab	Yes		
157	18B1WBT733	Industrial Enzymes Technologies	Yes		
158	18B1WBT633	Nano-Biotechnology	Yes		
159	18B1WBT531	Phytopharmaceuticals and Biologicals	Yes		
160	18B1WBT631	Peptide Therapeutics	Yes		
161	18B1WBT632	Infectious Diseases	Yes		
162	18B1WBT831	Genetic Counselling	Yes		
163	18B1WBT532	Comparative and Functional Genomics	Yes		
164	18B1WBI831	Computational Molecular Evolution	Yes		
165	18B1WBT833	Diagnostics & Vaccine Manufacturing	Yes		
166	18B1WBT832	Traditional Bioprocessing & Their Up Scaling	Yes		
167	18B1WBI531	Structural Bioinformatics	Yes		
168	18B1WBT734	Intellectual Property Rights & Commercialization	Yes		
169	18B11BT311	Genetics	Yes		
170	18B11BT312	Biochemistry			Yes
171	18B11BT313	Thermodynamics & Chemical Processes			Yes

  
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172	18B11BT314	General Chemistry			Yes
173	18B17BT371	Genetics Lab.			Yes
174	18B17BT372	Biochemistry Lab			Yes
175	18B17BT373	Thermodynamics & Chemical Processes lab			Yes
176	18B17BT374	General Chemistry Lab			Yes
177	18B11BT412	Molecular Biology	Yes		
178	18B11BT413	Introduction to Bioinformatics	Yes		
179	18B11BT414	Microbiology	Yes		
180	18B17BT472	Molecular Biology Lab	Yes		
181	18B17BT473	Introduction to Bioinformatics Lab	Yes		
182	18B17BT474	Microbiology Lab	Yes		
183	18B11BT511	Bioprocess Engineering	Yes		
184	18B11BT512	Genetic Engineering	Yes		
185	18B11BT513	Immunology	Yes		
186	18B17BT571	Bioprocess Engineering Lab	Yes		
187	18B17BT572	Genetic Engineering Lab	Yes		
188	18B17BT573	Immunology Lab	Yes		
189	18B19BT591	Minor Project Part-I	Yes		
190	18B11BT611	Downstream Processing	Yes		
191	18B11BT612	Food and Agricultural Biotechnology		Yes	
192	18B17BT671	Downstream Processing Lab.	Yes		
193	18B17BT672	Food and Agricultural Biotechnology Lab		Yes	
194	18B19BT691	Minor Project Part-II	Yes		
195	18B19BT791	Major Project Part I	Yes		
196	18B19BT891	Major Project Part II	Yes		
197	18B11BT111	Fundamental Biology			Yes
198	18B17BT171	Fundamental Biology lab			Yes
199	18B11BI311	Cell and Molecular Biology	Yes		
200	18B11BI312	Microbiology & Immune System	Yes		
201	18B11BI313	Biological Computation	Yes		
202	18B17BI371	Cell and Molecular Biology Lab	Yes		
203	18B17BI372	Microbiology & Immune System Lab	Yes		
204	18B17BI373	Biological Computation Lab	Yes		
205	18B17BI374	Linux Lab	Yes		
206	18B11BI412	Genetic Engineering and Genomics	Yes		
207	18B11BI413	Structural Biology			Yes
208	18B11BI414	Programming Languages for Bioinformatics	Yes		
209	18B17BI472	Genetic Engineering and Genomics Lab	Yes		
210	18B17BI473	Structural Biology Lab			Yes
211	18B17BI474	Programming Languages for Bioinformatics Lab	Yes		
212	18B11BI512	Scripting Languages for Bioinformatics	Yes		

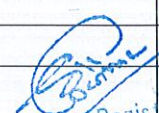
  
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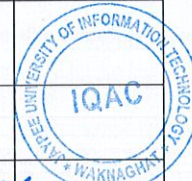
213	18B17BI572	Scripting Languages for Bioinformatics Lab	Yes		
214	18B17BI573	Structural Bioinformatics Lab	Yes		
215	18B19BI591	Minor Project Part-I	Yes		
216	18B11BI611	Machine Learning for Bioinformatics	Yes		
217	18B11BI612	Computer Aided Drug Design	Yes		
218	18B17BI671	Machine Learning for Bioinformatics lab	Yes		
219	18B17BI672	Computer Aided Drug Design Lab	Yes		
220	18B17BI673	Advanced Algorithms for Bioinformatics Lab	Yes		
221	18B17BI674	R Language Lab	Yes		
222	18B1WBT634	Bioenergy and Biofuels	Yes		
223	18B19BI691	Minor Project Part-II	Yes		
224	18B19BI791	Major Project Part I	Yes		
225	18B19BI891	Major Project Part II	Yes		
226	18B11HS311	Interpersonal Dynamics Values and Ethics			Yes
227	18B11HS411	Finance & Accounts		Yes	Yes
228	18B11HS511	Project Management and Entrepreneurship		Yes	Yes
229	18B1WHS632	Business Analytics	Yes		Yes
230	18B1WPH731	Nanotechnology	Yes		Yes
231	18B1WPH732	Optical Fibre Network Design	Yes		Yes
232	181WPH831	Optoelectronic Devices			Yes
233	18B1WPH532	Applied Materials Science			Yes
234	18B1WPH531	Science and Technology of Materials			Yes
235	18B1WPH212	Bioinstrumentation Techniques			Yes
236	19B1WBT731	Sustainable Technologies for Waste Management	Yes		
237	19B1WBT732	Food Nutrition & Health Care	Yes		
238	20B1WBT631	Manufacturing Process and Industrial Products	Yes		
239	20B11BI311	Bioinformatics Data Management	Yes		
240	20B17BI371	Bioinformatics Data Management Lab	Yes		
241	19B1WEC631	Embedded System Design	Yes		
242	19B1WEC632	Machine Learning for Data Analysis	Yes		
243	19B1WEC732	Pattern Analysis in Machine Intelligence	Yes		
244	20B1WEC731	Automation and Robotics	Yes		
245	20B17EM373	Network Simulation Lab (LabView and MATLAB)	Yes		
246	20B11EM311	Object Oriented Programming Concepts	Yes		

  
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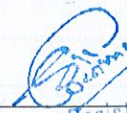


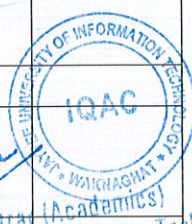
247	20B17EM371	Object Oriented Programming Concepts Lab	Yes		
248	20B1WCI531	Foundation for Data Science and Visualization	Yes		
249	20B1WCI571	Data Science and Visualization Lab	Yes		
250	19B1WCI531	Big Data using Hadoop	Yes		
251	19B1WCI571	Big Data using Hadoop Lab	Yes		
252	19B1WCI532	Image Analysis and Pattern Recognition	Yes		
253	19B1WCI572	Image Analysis and Pattern Recognition Lab	Yes		
254	20B1WCI532	Cloud Computing: Concepts, Technology & Architecture	Yes		
255	20B1WCI572	Cloud Computing: Concepts, Technology & Architecture Lab	Yes		
256	19B1WCI533	Human-Computer Interaction	Yes		
257	19B1WCI573	Human-Computer Interaction Lab	Yes		
258	19B1WCI631	Digital Forensics	Yes		
259	19B1WCI671	Digital Forensics lab	Yes		
260	19B1WCI633	Computer Animation	Yes		
261	19B1WCI673	Computer Animation Lab	Yes		
262	19B1WCI634	Computer and Robot Vision	Yes		
263	19B1WCI674	Computer and Robot Vision lab	Yes		
264	19B1WCI636	Computability, Complexity & Algorithms	Yes		
265	19B1WCI676	Computability, Complexity & Algorithms Lab	Yes		
266	19B1WCI638	Statistics and Data Science	Yes		
267	19B1WCI678	Statistics and Data Science Lab	Yes		
268	19B1WCI632	Information Security	Yes		
269	19B1WCI672	Information Security Lab	Yes		
270	20B1WCI732	From Graph to Knowledge Graph	Yes		
271	20B1WCI772	From Graph to Knowledge Graph Lab	Yes		
272	19B1WCI635	Architecting Distributed Cloud Applications	Yes		
273	19B1WCI675	Architecting Distributed Cloud Applications Lab	Yes		
274	19B1WCI637	Statistics and Exploratory Data Analytics	Yes		
275	19B1WCI677	Statistics and Exploratory Data Analytics Lab	Yes		
276	19B1WCI731	Computational Data Analysis	Yes		
277	19B1WCI771	Computational Data Analysis lab	Yes		
278	19B1WCI835	Cloud Computing Security	Yes		
279	19B1WCI836	Knowledge-Based AI: Cognitive Systems	Yes		
280	19B1WCI837	Reinforcement Learning	Yes		

  
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281	19B1WCI733	Introduction to C++ Programming	Yes		
282	19B1WCI734	Object-Oriented Technologies using Java	Yes		
283	19B1WCI735	Software Testing Methodologies	Yes		
284	19B1WCI773	Introduction to C++ Programming Lab	Yes		
285	19B1WCI774	Object-Oriented Technologies using Java Lab	Yes		
286	19B1WCI775	Software Testing Methodologies Lab	Yes		
287	19B1WCI739	Software Defined Network	Yes		
288	19B1WCI740	Introduction to Statistical learning	Yes		
289	19B1WCI838	Principles of Distributed Database Systems	Yes		
290	19B1WCI839	Foundations of Blockchain	Yes		
291	19B1WCI843	Multimedia Systems and Applications	Yes		
292	21MS1MB111	General Microbiology and Bacteriology	Yes		
293	21MS1MB112	Molecular Biology	Yes		
294	21MS1MB113	Fungal Biology	Yes		
295	21MS7MB171	General Microbiology and Bacteriology Lab	Yes		
296	21MS7MB172	Molecular Biology Lab	Yes		
297	21MS7MB173	GLP and Bioinstrumentation Lab	Yes		
298	21MS1MB211	Enzymes and Bioprocess Technology	Yes		
299	21MS1MB212	Microbial Genetics and Physiology	Yes		
300	21MS7MB271	Enzymes and Bioprocess Technology Lab	Yes		
301	21B11HS211	Life Skills and Effective Communication			Yes
302	21B11HS111	English			Yes
303	21B17HS171	English Lab			Yes
304	21M1WEC131	Wireless Technologies for IoT	Yes		
305	21M1WEC132	IoT Architecture and Protocols	Yes		
306	21M1WEC133	Industrial Automation and IIoT	Yes		
307	21M1WEC134	Intelligent Robotics and Shared Autonomy	Yes		
308	21M11EC111	Sensor and Smart Instrumentation	Yes		
309	21M11EC112	Embedded Systems and Applications	Yes		
310	21M11EC113	Object Oriented Programming	Yes		
311	21M11EC211	Digital System design using Verilog HDL	Yes		
312	21M11EC212	Artificial Intelligence and Expert Systems	Yes		
313	21M11EC213	Network Security Protocols	Yes		
314	21M1WEC236	Smart Internet of Things	Yes		

  
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315	20B1WEC732	Machine Learning for Wireless Communications	Yes		
316	20B1WEC734	Digital Systems	Yes		
317	20B1WEC735	Artificial Intelligence Techniques for Genomic Signal Processing	Yes		
318	20B1WEC736	Image Sensing and Reconstruction	Yes		
319	21B1WEC731	Digital Image Processing using Python	Yes		



  
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