

JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES
(An Autonomous Institution)

Mapping of the courses to employability/ entrepreneurship/ Skill development
Academic Year 2020-21

Academic Year 2020-21					
S.No	Name of the Course	Course Code	Mapping of Courses to Employability/ Entrepreneurship/ Skill development		
			Employability	Entrepreneurship	Skill Development
1.	Mathematics-I	J1001			✓
2.	Engineering Physics	J1007	✓		✓
3.	Engineering Chemistry	J1008	✓		✓
4.	Engineering Graphics	J1302	✓		
5.	Engineering Physics & Chemistry Lab	J1009			✓
6.	Mathematics-II	J2002			✓
7.	Basic Electrical & Electronics Engineering	J2202	✓		
8.	Basic Electrical & Electronics Engineering Lab	J2203			✓
9.	English	J2011	✓		✓
10.	English Language & Communication Skills Lab	J2012	✓		✓
11.	Programming for Problem Solving	J1501	✓		✓
12.	Programming for Problem Solving Lab	J1502			✓
13.	Object Oriented Programming	J2503	✓		
14.	Object Oriented Programming Lab	J2504			✓
15.	Environmental Studies	JMC01			✓
16.	Gender Sensitization	JMC02			✓
17.	Constitution of India	JMC03		✓	
18.	Engineering Mechanics	J1301	✓		
19.	Engineering Workshop	J1303	✓		
20.	Introduction to Civil Engineering	J3101	✓		
21.	Civil Engineering – Societal and Global Impact	J3102	✓		
22.	Solid Mechanics - I	J3103	✓		
23.	Fluid Mechanics	J3104	✓		
24.	Surveying and Geomatics	J3105	✓		
25.	Solid Mechanics Lab	J3106			✓
26.	Surveying Lab -I	J3107			✓
27.	Probability & Statistics	J4005	✓		
28.	Concrete Technology	J4109	✓		
29.	Hydraulics & Hydraulic Machinery	J4110	✓		
30.	Energy Sciences & Engineering	J4129	✓		
31.	Solid Mechanics – II	J4130	✓		
32.	Air & Noise Pollution and Control	J4131	✓		
33.	Concrete Technology Lab	J4111			✓
34.	Surveying Lab - II	J4112			✓
35.	Fluid Mechanics & Hydraulic Machinery Lab	J4113			✓
36.	Structural Analysis –I	J5114	✓		
37.	Design of Reinforced Concrete Structures	J5115	✓		
38.	Highway Engineering	J5116	✓		
39.	Building Material, Construction & Planning	J5132	✓		
40.	Advanced Concrete Technology	J5133	✓		
41.	Watershed Management	J5134	✓		
42.	Highway Material Testing Lab	J5117			✓

43.	Computer Aided Civil Engineering Drawing	J5118	✓		
44.	Summer Internship	J5180	✓		
45.	Geotechnical Engineering	J6119	✓		
46.	Irrigation Engineering and Hydraulic Structures	J6120	✓		
47.	Engineering Geology & Rock Mechanics	J6121	✓		
48.	Design of Steel Structures	J6122	✓		
49.	Structural Analysis – II	J6135	✓		
50.	Traffic Engineering and Management	J6136	✓		
51.	Earthquake Engineering	J6137	✓		
52.	Geotechnical Engineering Lab	J6123			✓
53.	Engineering Geology Lab	J6124			✓
54.	Estimation and Costing	J7125	✓		
55.	Environmental Engineering	J7126	✓		
56.	Foundation Engineering	J7138	✓		
57.	Railway and Airport Engineering	J7139	✓		
58.	Pre Stressed Concrete Structures	J7140	✓		
59.	Repairs and Rehabilitation of Structures	J7141	✓		
60.	Advanced Structural Design	J7142	✓		
61.	Earth Retaining Structures	J7143	✓		
62.	Environmental Engineering Lab	J7127			✓
63.	Structural Engineering Detailing Lab	J7128			✓
64.	Construction Planning and Project Management	J8144	✓		
65.	Industrial Waste Water Treatment	J8145	✓		
66.	Solid and Hazardous Waste Management	J8146	✓		
67.	Ground Improvement Techniques	J8147	✓		
68.	Finite Element Method	J8148	✓		
69.	Bridge Engineering	J8149	✓		
70.	Remote Sensing & GIS	J_150	✓		
71.	Traffic Engineering and Transportation Planning	J_151	✓		
72.	Disaster Preparedness & Planning	J_152	✓		
73.	Environmental Impact Assessment	J_153	✓		
74.	Electrical Circuits – I	J2201	✓		
75.	Electrical circuits-I	J3206	✓		
76.	DC Machines & Transformers	J3210	✓		
77.	Electronics Devices & Circuits	J3401	✓		
78.	Electronics Devices & Circuits Lab	J3404			✓
79.	Electrical Circuit Lab	J3207			✓
80.	Electrical Machines -I Lab	J3211			✓
81.	Power systems-I	J4210	✓		
82.	Electrical Machines-II	J4211	✓		
83.	Switching Theory and Logic Design	J4404	✓		
84.	IC Applications	J4417	✓		
85.	Fluid Mechanics and Hydraulic Machinery	J4110	✓		
86.	Basic Electrical Simulation Lab	J4246			✓
87.	Control Systems	J5219	✓		
88.	Power system-II	J5218	✓		
89.	Power Electronics	J5221	✓		
90.	Renewable Energy Sources	J5223	✓		
91.	Energy Storage Systems	J5224	✓		
92.	Control Systems Lab	J5220			✓
93.	Power Electronics Lab	J5222			✓
94.	Static Drives	J6226	✓		
95.	Switch Gear and Protection	J6227	✓		
96.	Computer Methods in Power Systems	J6228	✓		
97.	Micro Processors and Micro Controllers	J6424	✓		

98.	Electrical Distribution systems	J6230	✓		
99.	Electrical Estimation & Costing	J6231	✓		
100.	Power Quality	J6232	✓		
101.	Simulation Of Electrical Systems Lab	J6229			✓
102.	Micro Processors and Micro Controllers Lab	J6430			✓
103.	Power System Operating & Control	J7233	✓		
104.	Utilization Of Electrical Energy	J7235	✓		
105.	High Voltage Engineering	J7236	✓		
106.	Advanced Power System Protection	J7237	✓		
107.	Industrial Electrical System	J7238	✓		
108.	Advance Control System	J7239	✓		
109.	Power System Dynamics	J7240	✓		
110.	Linear System Analysis	J7241	✓		
111.	Power Systems Simulation Lab	J7234			✓
112.	Fundamental Of HVDC & FACTS	J8242	✓		
113.	Smart Grid	J8243	✓		
114.	Modern Power Electronics Converters	J8244	✓		
115.	Power System Reliability	J8245	✓		
116.	Soft Computing Techniques	J8246	✓		
117.	Digital Control System	J8247	✓		
118.	Extra High Voltage AC Transmission	J8248	✓		
119.	Energy Storage Systems	J_224	✓		
120.	Industrial Electricals Systems	J_238	✓		
121.	Electrical Engineering Materials	J_249	✓		
122.	Neural Networks & Fuzzy Logic	J_250	✓		
123.	Engineering Mechanics	J1301	✓		
124.	Engineering Workshop	J1303	✓		
125.	Engineering Graphics	J2302	✓		
126.	Engineering Thermodynamics	J3305	✓		
127.	Mechanics of Solids	J3306	✓		
128.	Material Science and Metallurgy	J3307	✓		
129.	Mechanics of Fluids & Hydraulic Machinery	J3309	✓		
130.	Material Testing and Metallurgy Lab	J3308			✓
131.	Mechanics of Fluids & Hydraulic Machinery Lab	J3310			✓
132.	Managerial Economics & Financial Analysis	J4E02	✓		
133.	Thermal Engineering - I	J4313	✓		
134.	Kinematics of Machinery	J4314	✓		
135.	Manufacturing Processes	J4315	✓		
136.	Manufacturing Processes Lab	J4316			✓
137.	Dynamics of Machinery	J5318	✓		
138.	Thermal Engineering - II	J5319	✓		
139.	Manufacturing Technology	J5321	✓		
140.	Finite Element Method	J5333	✓		
141.	Thermal Engineering Lab	J5320			✓
142.	Manufacturing Technology Lab	J5322			✓
143.	Design of Machine Elements	J6323	✓		
144.	Heat Transfer	J6324	✓		
145.	Refrigeration and Air Conditioning	J6336	✓		
146.	Additive Manufacturing	J6341	✓		
147.	Heat Transfer Lab	J6325			✓
148.	Production Drawing Practice	J6326	✓		
149.	Internship	J6380			✓
150.	Metrology and Instrumentation	J7327	✓		
151.	CAD / CAM	J7329	✓		
152.	Power Plant Engineering	J7342	✓		

153.	Metrology and Instrumentation Lab	J7328			✓
154.	CAD / CAM Lab	J7330			✓
155.	Unconventional Machining Processes	J8345	✓		
156.	Automobile Engineering	J8346	✓		
157.	Network Theory	J1204	✓		
158.	Electronic Devices and Circuits	J3401	✓		
159.	Electrical Technology	J3208	✓		
160.	Signals and Systems	J3402	✓		
161.	Probability Theory and Stochastic Process	J3403	✓		
162.	Electronic Devices and Circuits Lab	J3404			✓
163.	Basic Simulation Lab	J3405			✓
164.	Electrical Technology Lab	J3209			✓
165.	Analog Communications	J4406	✓		
166.	Pulse and Digital Circuit	J4407	✓		
167.	Electronic Circuit Analysis	J4408	✓		
168.	Digital System Design	J4409	✓		
169.	Electromagnetic Waves and Transmission Lines	J4410	✓		
170.	Pulse and Digital Circuits Lab	J4411			✓
171.	Electronic Circuit Analysis Lab	J4412			✓
172.	Analog Communications Lab	J4413			✓
173.	IC Applications	J5414	✓		
174.	Digital Signal Processing	J5415	✓		
175.	Digital Communications	J5455	✓		
176.	Antennas and Wave propagation	J5416	✓		
177.	Power Electronics	J5217	✓		
178.	Bio Medical Electronics	J5418	✓		
179.	IC Applications Lab	J5420			✓
180.	Digital Communications Lab	J5421			✓
181.	Digital Signal Processing	J5421	✓		
182.	Internship	J5480	✓		
183.	Linear Control Systems	J6422	✓		
184.	VLSI Technology	J6423	✓		
185.	Microprocessors and Microcontrollers	J6424	✓		
186.	Electronic Measurements and Instrumentation	J6425	✓		
187.	Information Theory and Coding	J6426	✓		
188.	Speech and Audio Processing	J6427	✓		
189.	Nano Electronics	J6428	✓		
190.	e-CAD & VLSI Lab	J6429			✓
191.	Microprocessors and Microcontrollers Lab	J6430			✓
192.	Microwave and Optical Communication	J7431	✓		
193.	Computer Networks	J7526	✓		
194.	Adaptive Signal Processing	J7432	✓		
195.	Wireless Communication Networks	J7433	✓		
196.	Image and Video Processing	J7434	✓		
197.	High Speed Electronics	J7435	✓		
198.	Wavelet	J7436	✓		
199.	Embedded systems	J7437	✓		
200.	Error Correcting Codes	J7438	✓		
201.	Introduction to MEMS	J7439	✓		
202.	RF circuit Design	J7440	✓		
203.	Microwave & Optical Fiber Communication Lab	J7441	✓		
204.	CMOS Design	J8443	✓		
205.	Scientific Computing	J8444	✓		
206.	Radar Systems	J8445	✓		
207.	Mixed Signal Design	J8446	✓		

208.	Wireless sensor Networks	J8447	✓		
209.	Satellite Communication	J8448	✓		
210.	Electromagnetic Waves and Transmission Lines	J_410	✓		
211.	Bio Medical Electronics	J_418	✓		
212.	IT & Engineering Workshop	J2507			✓
213.	Data Structures	J3508	✓		
214.	Data Structures Lab	J3509			✓
215.	Scripting Language Lab	J3510			✓
216.	Design & Analysis of Algorithms	J4511	✓		
217.	Java Programming	J4512	✓		
218.	Operating Systems	J4513	✓		
219.	Formal Languages and Automata Theory	J4514	✓		
220.	Java Programming Lab	J4515			✓
221.	Operating Systems Lab	J4516			✓
222.	Database Management Systems	J5518	✓		
223.	Principles of Programming Languages	J5519	✓		
224.	Web Programming	J5520	✓		
225.	Artificial Intelligence	J5521	✓		
226.	Adhoc & Sensor Networks	J5522	✓		
227.	Graph Theory	J5523	✓		
228.	Database Management System Lab	J5525			✓
229.	Web Programming Lab	J5526			✓
230.	Compiler Design	J6527	✓		
231.	Computer Networks	J6528	✓		
232.	Machine Learning	J6529	✓		
233.	Object Oriented Analysis and Design	J6530	✓		
234.	Advanced Databases	J6531	✓		
235.	Distributed Computing	J6533	✓		
236.	High Performance Computing	J6534	✓		
237.	Software Engineering	J6535	✓		
238.	Complier Design / Computer Networks Lab	J6536			✓
239.	OOAD Lab	J6537			✓
240.	Internship	J6580			✓
241.	Probability and Statistics	J3005	✓		
242.	Digital system Design	J3409	✓		
243.	Computer Organization	J3419	✓		
244.	Discrete Mathematics	J4004	✓		
245.	Micro Processors and Interfacing	J5454	✓		
246.	Micro Processors and Interfacing Lab	J5458			✓
247.	Organizational Behaviour	J3E12	✓		
248.	Managerial Economics and Financial Analysis	J6E02	✓		
249.	Network Programming	AJ7539	✓		
250.	Mobile Application Development	AJ7540	✓		
251.	Software Testing Methodologies	AJ7541	✓		
252.	Computer Graphics and Multimedia	AJ7542	✓		
253.	Digital Image Processing	AJ7433	✓		
254.	Embedded Systems	AJ7431	✓		
255.	Information Retrieval Systems	AJ7545	✓		
256.	Secure Software Engineering	AJ7546	✓		
257.	Network Programming Lab	AJ7547			✓
258.	Mobile Application Development Lab	AJ7548			✓
259.	Mini Project	AJ7581			✓
260.	E-Commerce	AJ8549		✓	
261.	Semantic web and social networks	AJ8550	✓		
262.	Web services	AJ8551	✓		

263.	Human computer interaction	AJ8552	✓		
264.	Big data management	AJ8553	✓		
265.	Soft computing	AJ8554	✓		
266.	Technical seminar	AJ 8582			✓
267.	Comprehensive viva voce	AJ8583			✓
268.	Major project	AJ8584			✓
269.	Advanced Data Structure and Algorithms	JD581C01	✓		
270.	Operating System and Internals	JD581C02	✓		
271.	Security in Computing	JD581E01	✓		
272.	Internet of Things	JD581E02	✓		
273.	Agent Based Intelligent Systems	JD581E03	✓		
274.	Cloud Computing	JD581E04	✓		
275.	Network Engineering and Management	JD581E05	✓		
276.	Natural Language Processing	JD581E06	✓		
277.	Ad-Hoc and Sensor Networks	JD581E07	✓		
278.	Software Quality Assurance	JD581E08	✓		
279.	Research Methodology and IPR	JD581A01			✓
280.	Audit Course	JD581A02		✓	□
281.	Advanced Data Structure and Algorithms Laboratory	JD581L1			✓
282.	Advanced Operating System Laboratory	JD581L2			✓
283.	Advanced Database Technology	JD581C03	✓		
284.	Network Programming	JD581C04	✓		
285.	Advanced communication Networks	JD581E09	✓		
286.	Software process and Project Management	JD581E10	✓		
287.	High Speed Networks	JD581E11	✓		
288.	Soft Computing	JD581E12	✓		
289.	Information Storage Management	JD581E13	✓		
290.	Social Network Analysis	JD581E14	✓		
291.	Digital Image Processing	JD581E15	✓		
292.	Data Mining Techniques	JD581E16	✓		
293.	Audit Course	JD581A03	□	✓	
294.	Advanced Database Technology Lab	JD581L3			✓
295.	Network Programming Lab	JD581L4			✓
296.	Mini Project with Seminar	JD581S1			✓
297.	Software Quality Assurance and Testing	JD581E16	✓		
298.	Embedded Software Development	JD581E17	✓		
299.	Mobile Application Development	JD581E18	✓		
300.	Internet and web technology	JD581E19	✓		
301.	Dissertation-I	JDPR158		✓	
302.	Dissertation-II	JDPR258		✓	
303.	Management Theory and Organization Behavior	J18MB101		✓	
304.	Business Economics	J18MB102		✓	
305.	Financial Accounting and Analysis	J18MB103		✓	
306.	Business Law and Ethics	J18MB104		✓	
307.	Statistics for Management	J18MB105		✓	
308.	E-Commerce	J18MB106		✓	
309.	Computer Applications for Business Statistics - LAB	J18MB107		✓	
310.	Business Communication (seminar)	J18MB108		□	✓
311.	Entrepreneurship	J18MB201		✓	
312.	Quantitative Analysis for Business Decisions	J18MB202		✓	
313.	Marketing Management	J18MB203		✓	
314.	Human Resource Management	J18MB204		✓	
315.	Financial Management	J18MB205		✓	

316.	Indian Ethos	J18MB206		✓	
317.	Strategic Management	J18MB207		✓	
318.	Technology Management	J18MB301		✓	
319.	Research Methodology	J18MB302		✓	
320.	Integrated Marketing Communication	J18MB302		✓	
321.	Agri-Business Management	J18MB303		✓	
322.	Internship (Seminar)	J18MB307		✓	
323.	Consumer Behavior	J18MB304M1		✓	
324.	Retail Management	J18MB305M2		✓	
325.	Sales and Distribution Management	J18MB306M3		✓	
326.	Security Analysis and Portfolio Management	J18MB304F1		✓	
327.	Mergers, Acquisitions and Corporate Restructuring	J18MB305F2		✓	
328.	International Finance	J18MB306F3		✓	
329.	HR Planning	J18MB304H1		✓	
330.	Employee Relations	J18MB305H2		✓	
331.	Compensation and Benefits Management	J18MB306H3		✓	
332.	Start up Management	J18MB304E1		✓	
333.	MSME Management	J18MB305E2		✓	
334.	Family Business Management	J18MB306E3		✓	
335.	Business intelligence	J18MB304S1		✓	
336.	Database Management System	J18MB305S2		✓	
337.	Decision Support system	J18MB304S3		✓	
338.	Creativity and Innovation	J18MB401		✓	
339.	Green Marketing	J18MB402		✓	
340.	Finance and Accounting for Small Business.	J18MB403		✓	
341.	Project Report	J18MB407		✓	
342.	Product and Brand Management	J18MB404M4		✓	
343.	Services Marketing	J18MB405M5		✓	
344.	International Marketing	J18MB406M6		✓	
345.	Taxation	J18MB404F4		✓	
346.	Financial Derivatives	J18MB405F5		✓	
347.	Financial Institute Markets	J18MB406F6		✓	
348.	International HRM	J18MB404H4		✓	
349.	Cross Cultural Management	J18MB405H5		✓	
350.	Strategic HRM	J18MB406H6		✓	
351.	Entrepreneurial Finance	J18MB404E4		✓	
352.	International Finance	J18MB306F3		✓	
353.	Entrepreneurial Marketing	J18MB405E5		✓	
354.	Creativity Innovation and Entrepreneurship	J18MB406E6		✓	
355.	E-Business	J18MB404S4		✓	
356.	Knowledge Management	J18MB405S5		✓	
357.	Information System Control	J18MB406S6		✓	