

**JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES**  
(An Autonomous Institution)

**Mapping of the courses to employability/ entrepreneurship/ Skill development**  
**Academic Year 2018-19**

Academic Year 2018-19					
S.NO	Name of the Course	Course Code	Mapping of courses on		
			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.	Advanced Communication Skills Lab	AJ5015			✓
13.	Programming for Problem Solving Lab	J1502			✓
14.	Object Oriented Programming	J2503	✓		
15.	Object Oriented Programming Lab	J2504			✓
16.	Engineering Mechanics	J1301	✓		
17.	Engineering Workshop	J1303	✓		
18.	Introduction to Civil Engineering	J3101	✓		
19.	Civil Engineering – Societal and Global Impact	J3102	✓		
20.	Solid Mechanics - I	J3103	✓		
21.	Fluid Mechanics	J3104	✓		
22.	Surveying and Geomatics	J3105	✓		
23.	Solid Mechanics Lab	J3106			✓
24.	Surveying Lab -I	J3107			✓
25.	Probability & Statistics	J4005			✓
26.	Concrete Technology	J4109	✓		
27.	Hydraulics & Hydraulic Machinery	J4110	✓		
28.	Energy Sciences & Engineering	J4129	✓		
29.	Solid Mechanics – II	J4130	✓		
30.	Air & Noise Pollution and Control	J4131	✓		
31.	Concrete Technology Lab	J4111			✓
32.	Surveying Lab - II	J4112			✓
33.	Fluid Mechanics & Hydraulic Machinery Lab	J4113			✓
34.	Structural Analysis –I	J5114	✓		
35.	Highway Engineering	J5116	✓		
36.	Building Material, Construction & Planning	J5132	✓		
37.	Advanced Concrete Technology	J5133	✓		
38.	Watershed Management	J5134	✓		
39.	Highway Material Testing Lab	J5117			✓
40.	Computer Aided Civil Engineering Drawing	J5118	✓		
41.	Summer Internship	J5180			✓

42.	Geotechnical Engineering	J6119	✓		
43.	Irrigation Engineering and Hydraulic Structures	J6120	✓		
44.	Engineering Geology & Rock Mechanics	J6121	✓		
45.	Design of Steel Structures	J6122	✓		
46.	Structural Analysis – II	J6135	✓		
47.	Traffic Engineering and Management	J6136	✓		
48.	Earthquake Engineering	J6137	✓		
49.	Geotechnical Engineering Lab	J6123			✓
50.	Engineering Geology Lab	J6124			✓
51.	Estimation and Costing	J7125	✓		
52.	Environmental Engineering	J7126	✓		
53.	Foundation Engineering	J7138	✓		
54.	Railway and Airport Engineering	J7139	✓		
55.	Pre Stressed Concrete Structures	J7140	✓		
56.	Repairs and Rehabilitation of Structures	J7141	✓		
57.	Advanced Structural Design	J7142	✓		
58.	Earth Retaining Structures	J7143	✓		
59.	Environmental Engineering Lab	J7127			✓
60.	Structural Engineering Detailing Lab	J7128			✓
61.	Mini Project	J7181			✓
62.	Construction Planning and Project Management	J8144	✓		
63.	Industrial Waste Water Treatment	J8145	✓		
64.	Solid and Hazardous Waste Management	J8146	✓		
65.	Ground Improvement Techniques	J8147	✓		
66.	Finite Element Method	J8148	✓		
67.	Bridge Engineering	J8149	✓		
68.	Remote Sensing & GIS	J_150	✓		
69.	Traffic Engineering and Transportation Planning	J_151	✓		
70.	Disaster Preparedness & Planning	J_152	✓		
71.	Environmental Impact Assessment	J_153	✓		
72.	Electrical Circuits – I	J2201	✓		
73.	Basic Electronics Engineering	J2401	✓		
74.	Basic Electronics Lab	J2402			✓
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.	Fluid Mechanics and Hydraulic Machinery Lab	J4112			✓
87.	Basic Electrical Simulation Lab	J4246			✓
88.	IC & HDL Simulation Lab	J4421			✓
89.	Control Systems	J5219	✓		
90.	Power system-II	J5218	✓		
91.	Power Electronics	J5221	✓		
92.	Renewable Energy Sources	J5223	✓		
93.	Energy Storage Systems	J5224	✓		
94.	Special Electrical Mechines	J5225	✓		
95.	Control Systems Lab	J5220			✓
96.	Power Electronics Lab	J5222			✓

97.	Static Drives	J6226	✓		
98.	Switch Gear and Protection	J6227	✓		
99.	Computer Methods in Power Systems	J6228	✓		
100.	Micro Processors and Micro Controllers	J6424	✓		
101.	Electrical Distribution systems	J6230	✓		
102.	Electrical Estimation & Coasting	J6231	✓		
103.	Power Quality	J6232	✓		
104.	Simulation Of Electrical Systems Lab	J6229			✓
105.	Micro Processors and Micro Controllers Lab	J6430			✓
106.	Summer Internship	J6280			✓
107.	Power System Operating & Control	J7233	✓		
108.	Utilization Of Electrical Energy	J7235	✓		
109.	High Voltage Engineering	J7236	✓		
110.	Advanced Power System Protection	J7237	✓		
111.	Industrial Electrical System	J7238	✓		
112.	Advance Control System	J7239	✓		
113.	Power System Dynamics	J7240	✓		
114.	Linear System Analysis	J7241	✓		
115.	Power Systems Simulation Lab	J7234			✓
116.	Fundamental Of HVDC & FACTS	J8242	✓		
117.	Smart Grid	J8243	✓		
118.	Modern Power Electronics Converters	J8244	✓		
119.	Power System Reliability	J8245	✓		
120.	Soft Computing Techniques	J8246	✓		
121.	Digital Control System	J8247	✓		
122.	Extra High Voltage AC Transmission	J8248	✓		
123.	Energy Storage Systems	J_224	✓		
124.	Industrial Electricals Systems	J_238	✓		
125.	Electrical Engineering Materials	J_249	✓		
126.	Neural Networks & Fuzzy Logic	J_250	✓		
127.	Engineering Graphics	J2302	✓		
128.	Managerial Economics & Financial Analysis	J4E02		✓	
129.	Thermal Engineering - I	J4313	✓		
130.	Kinematics of Machinery	J4314	✓		
131.	Manufacturing Processes	J4315	✓		
132.	Manufacturing Processes Lab	J4316			✓
133.	Dynamics of Machinery	J5318	✓		
134.	Thermal Engineering - II	J5319	✓		
135.	Manufacturing Technology	J5321	✓		
136.	Finite Element Method	J5333	✓		
137.	Thermal Engineering Lab	J5320			✓
138.	Manufacturing Technology Lab	J5322			✓
139.	Design of Machine Elements	J6323	✓		
140.	Heat Transfer	J6324	✓		
141.	Refrigeration and Air Conditioning	J6336	✓		
142.	Heat Transfer Lab	J6325			✓
143.	Production Drawing Practice	J6326	✓		
144.	Metrology and Instrumentation	J7327	✓		
145.	CAD / CAM	J7329	✓		
146.	Power Plant Engineering	J7342	✓		
147.	Metrology and Instrumentation Lab	J7328			✓
148.	CAD / CAM Lab	J7330			✓
149.	Unconventional Machining Processes	J8345	✓		
150.	Automobile Engineering	J8346	✓		
151.	Manufacturing Processes	J4315	✓		

152.	Manufacturing Processes Lab	J4316			✓
153.	Machine Drawing Practice	J4317			✓
154.	Network Theory	J1204	✓		
155.	Electronic Devices and Circuits	J3401	✓		
156.	Electrical Technology	J3208	✓		
157.	Signals and Systems	J3402	✓		
158.	Probability Theory and Stochastic Process	J3403	✓		
159.	Electronic Devices and Circuits Lab	J3404			✓
160.	Basic Simulation Lab	J3405			✓
161.	Electrical Technology Lab	J3209			✓
162.	Analog Communications	J4406	✓		
163.	Pulse and Digital Circuit	J4407	✓		
164.	Electronic Circuit Analysis	J4408	✓		
165.	Digital System Design	J4409	✓		
166.	Electromagnetic Waves and Transmission Lines	J4410	✓		
167.	Pulse and Digital Circuits Lab	J4411			✓
168.	Electronic Circuit Analysis Lab	J4412			✓
169.	Analog Communications Lab	J4413			✓
170.	IC Applications	J5414	✓		
171.	Digital Signal Processing	J5415	✓		
172.	Digital Communications	J5455	✓		
173.	Antennas and Wave propagation	J5416	✓		
174.	Power Electronics	J5217	✓		
175.	Bio Medical Electronics	J5418	✓		
176.	IC Applications Lab	J5420			✓
177.	Digital Signal Processing Lab Digital Communications Lab	J5421	✓		
178.	Internship	J5480			✓
179.	Linear Control Systems	J6422	✓		
180.	VLSI Technology	J6423	✓		
181.	Microprocessors and Microcontrollers	J6424	✓		
182.	Electronic Measurements and Instrumentation	J6425	✓		
183.	Information Theory and Coding	J6426	✓		
184.	Speech and Audio Processing	J6427	✓		
185.	Nano Electronics	J6428	✓		
186.	e-CAD & VLSI Lab	J6429			✓
187.	Microprocessors and Microcontrollers Lab	J6430			✓
188.	Microwave and Optical Communication	J7431	✓		
189.	Computer Networks	J7526	✓		
190.	Adaptive Signal Processing	J7432	✓		
191.	Wireless Communication Networks	J7433	✓		
192.	Image and Video Processing	J7434	✓		
193.	High Speed Electronics	J7435	✓		
194.	Wavelet	J7436	✓		
195.	Embedded systems	J7437	✓		
196.	Error Correcting Codes	J7438	✓		
197.	Introduction to MEMS	J7439	✓		
198.	RF circuit Design	J7440	✓		
199.	Microwave & Optical Fiber Communication Lab	J7441			✓
200.	CMOS Design	J8443	✓		
201.	Scientific Computing	J8444	✓		
202.	Radar Systems	J8445	✓		
203.	Mixed Signal Design	J8446	✓		
204.	Wireless sensor Networks	J8447	✓		
205.	Satellite Communication	J8448	✓		

206.	Analog Communications	J4406	✓		
207.	Pulse and Digital Circuit	J4407	✓		
208.	Electronic Circuit Analysis	J4408	✓		
209.	IT & Engineering Workshop	J2507	✓		
210.	Mathematical Foundations of Computer Science	AJ3006	✓		
211.	Switching Theory and Digital Logic Design	AJ3404	✓		
212.	Computer Organization	AJ3416	✓		
213.	Database Management Systems	AJ3511	✓		
214.	Java Programming	AJ3512	✓		
215.	Database Management Systems Lab	AJ3513			✓
216.	Java Programming Lab	AJ3514			✓
217.	Probability and Statistics	AJ4005			✓
218.	Design and Analysis of Algorithms	AJ4515	✓		
219.	Formal Languages and Automata Theory	AJ4516	✓		
220.	Operating Systems	AJ4517	✓		
221.	Software Engineering	AJ4518	✓		
222.	Operating Systems Lab	AJ4519	□		✓
223.	CASE Tools Lab	AJ4520			✓
224.	Gender Sensitization	AJMC01			✓
225.	Microprocessors and Interfacing	AJ5451	✓		
226.	Computer Networks	AJ5521	✓		
227.	Compiler Design	AJ5522	✓		
228.	Machine Learning	AJ5523	✓		
229.	Computer Forensics	AJ5524	✓		
230.	Advanced Databases	AJ5525	✓		
231.	Microprocessors and Interfacing Lab	AJ5452			✓
232.	Compiler Design & Computer Networks Lab	AJ5526			✓
233.	Value Education, Human Rights and Legislative Procedures	AJMC02		✓	
234.	Data Warehousing and Data Mining	AJ6527	✓		
235.	Web Programming	AJ6528	✓		
236.	Network Security	AJ6529	✓		
237.	High Performance Computing	AJ6533	✓		
238.	Design Patterns	AJ6534	✓		
239.	Software Project Management	AJ6535	✓		
240.	Data Warehousing and Data Mining LAB	AJ6536			✓
241.	Web Programming Lab	AJ6537			✓
242.	Visual Programming Lab	AJ6538			✓
243.	Network Programming	AJ7539	✓		
244.	Mobile Application Development	AJ7540	✓		
245.	Software Testing Methodologies	AJ7541	✓		
246.	Computer Graphics and Multimedia	AJ7542	✓		
247.	Digital Image Processing	AJ7433	✓		
248.	Embedded Systems	AJ7431	✓		
249.	Information Retrieval Systems	AJ7545	✓		
250.	Secure Software Engineering	AJ7546	✓		
251.	Network Programming Lab	AJ7547			✓
252.	Mobile Application Development Lab	AJ7548			✓
253.	Mini Project	AJ7581			✓
254.	E-Commerce	AJ8549		✓	
255.	Semantic web and social networks	AJ8550	✓		
256.	Web services	AJ8551	✓		
257.	Human computer interaction	AJ8552	✓		
258.	Big data management	AJ8553	✓		
259.	Soft computing	AJ8554	✓		

260.	Technical seminar	AJ 8582			✓
261.	Comprehensive viva voce	AJ8583			✓
262.	Major project	AJ8584			✓
263.	Advanced Data Structure and Algorithms	JD581C01	✓		
264.	Operating System and Internals	JD581C02	✓		
265.	Security in Computing	JD581E01	✓		
266.	Internet of Things	JD581E02	✓		
267.	Agent Based Intelligent Systems	JD581E03	✓		
268.	Cloud Computing	JD581E04	✓		
269.	Network Engineering and Management	JD581E05	✓		
270.	Natural Language Processing	JD581E06	✓		
271.	Ad-Hoc and Sensor Networks	JD581E07	✓		
272.	Software Quality Assurance	JD581E08	✓		
273.	Research Methodology and IPR	JD581A01		✓	
274.	Audit Course	JD581A02		✓	
275.	Advanced Data Structure and Algorithms Laboratory	JD581L1			✓
276.	Advanced Operating System Laboratory	JD581L2			✓
277.	Comprehensive Viva-Voce	AJDCV58			✓
278.	Project	AJDPE58			✓
279.	Management Theory and Organization Behavior	J18MB101		✓	
280.	Business Economics	J18MB102		✓	
281.	Financial Accounting and Analysis	J18MB103		✓	
282.	Business Law and Ethics	J18MB104		✓	
283.	Statistics for Management	J18MB105		✓	
284.	E-Commerce	J18MB106		✓	
285.	Computer Applications for Business Statistics - LAB	J18MB107		✓	
286.	Business Communication (seminar)	J18MB108		✓	
287.	Entrepreneurship	J18MB201		✓	
288.	Quantitative Analysis for Business Decisions	J18MB202		✓	
289.	Marketing Management	J18MB203		✓	
290.	Human Resource Management	J18MB204		✓	
291.	Financial Management	J18MB205		✓	
292.	Indian Ethos	J18MB206		✓	
293.	Strategic Management	J18MB207		✓	
294.	a) Technology Management	J18MB301		✓	
295.	a) Research Methodology	J18MB302		✓	
296.	b) Integrated Marketing Communication	J18MB302		✓	
297.	a) Agri-Business Management	J18MB303		✓	
298.	Internship (Seminar)	J18MB307		✓	
299.	Consumer Behavior	J18MB304M1		✓	
300.	Retail Management	J18MB305M2		✓	
301.	Sales and Distribution Management	J18MB306M3		✓	
302.	Security Analysis and Portfolio Management	J18MB304F1		✓	
303.	Mergers, Acquisitions and Corporate Restructuring	J18MB305F2		✓	
304.	International Finance	J18MB306F3		✓	
305.	HR Planning	J18MB304H1		✓	
306.	Employee Relations	J18MB305H2		✓	
307.	Compensation and Benefits Management	J18MB306H3		✓	
308.	Start up Management	J18MB304E1		✓	
309.	MSME Management	J18MB305E2		✓	
310.	Family Business Management	J18MB306E3		✓	
311.	Business intelligence	J18MB304S1		✓	
312.	Database Management System	J18MB305S2		✓	

313.	Decision Support system	J18MB304S3		✓	
314.	a) Creativity and Innovation	J18MB401		✓	
315.	a) Green Marketing	J18MB402		✓	
316.	a) Finance and Accounting for Small Business.	J18MB403		✓	
317.	Project Report	J18MB407		✓	
318.	Product and Brand Management	J18MB404M4		✓	
319.	Services Marketing	J18MB405M5		✓	
320.	International Marketing	J18MB406M6		✓	
321.	Taxation	J18MB404F4		✓	
322.	Financial Derivatives	J18MB405F5		✓	
323.	Financial Institute Markets	J18MB406F6		✓	
324.	International HRM	J18MB404H4		✓	
325.	Cross Cultural Management	J18MB405H5		✓	
326.	Strategic HRM	J18MB406H6		✓	
327.	Entrepreneurial Finance	J18MB404E4		✓	
328.	Entrepreneurial Marketing	J18MB405E5		✓	
329.	Creativity Innovation and Entrepreneurship	J18MB406E6		✓	
330.	E-Business	J18MB404S4		✓	
331.	Knowledge Management	J18MB405S5		✓	
332.	Information System Control	J18MB406S6		✓	