

JAYAMUKHI INSTITUTE OF TECHNOLOGICAL SCIENCES
(An Autonomous Institution)

Mapping of the courses to employability/ entrepreneurship/ Skill development
Academic Year 2017-18

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S.NO	Name of the Course	Course Code	Mapping of Courses on Employability/ Entrepreneurship/ Skill development		
			Employability	Entrepreneurship	Skill Development
1.	Mathematics-I	AJ001			✓
2.	Engineering Physics	AJ008			✓
3.	English	AJ013			✓
4.	Engineering Graphics	AJ303	✓		
5.	Problem Solving and Computer programming	AJ501	✓		
6.	Engineering Physics Lab	AJ009			✓
7.	Problem Solving and Computer programming Lab	AJ502			✓
8.	Information Technology workshop	AJ503			✓
9.	Mathematics-II	AJ002			✓
10.	Basic Electrical & Electronics Engineering	AJ203	✓		
11.	Engineering Chemistry	AJ010	✓		
12.	Data Structures through C++	AJ506	✓		
13.	Advanced Communication Skills Lab	AJ5015			✓
14.	English Language Communication Skills Lab	AJ014			✓
15.	Engineering Mechanics-II	AJ2302	✓		
16.	Engineering Graphics-II	AJ2305	✓		
17.	OOP and Data Structures	AJ2508	✓		
18.	Engineering Workshop & IT Work Shop	AJ2307			✓
19.	Physical Sciences Lab	AJ2011			✓
20.	OOP and Data Structures Lab	AJ2509			✓
21.	Strength of Materials -I	AJ3101	✓		
22.	Fluid Mechanics	AJ3102	✓		
23.	Surveying	AJ3103	✓		
24.	Building Materials, Construction & Planning	AJ3104	✓		
25.	Environmental Studies	AJ3012	✓		
26.	Strength of Materials Lab	AJ3105			✓
27.	Surveying lab-I	AJ3106			✓
28.	Computer Aided Drafting of Buildings Lab	AJ3107			✓
29.	Probability and Statistics	AJ4005			✓
30.	Strength of Materials-II	AJ4108	✓		
31.	Concrete Technology	AJ4109	✓		
32.	Hydraulics & Hydraulic Machinery	AJ4111	✓		
33.	Basic Electrical and Electronics Engineering	AJ4203	✓		
34.	Fluid Mechanics & Hydraulic Machinery Lab	AJ4112			✓
35.	Surveying Lab-II	AJ4113			✓
36.	Basic Electrical and Electronics Engineering Lab	AJ4204			✓
37.	Design of Reinforced Concrete Structures	AJ5114	✓		
38.	Structural Analysis-I	AJ5115	✓		
39.	Engineering Geology & Rock Mechanics	AJ5116	✓		
40.	Soil Mechanics	AJ5117	✓		
41.	Engineering Hydrology	AJ5134	✓		
42.	Pre Stressed Concrete	AJ5135	✓		

43.	Remote Sensing and GIS	AJ5136	✓		
44.	Engineering Geology Lab	AJ5118			✓
45.	Concrete Technology Lab	AJ5119			✓
46.	Value Education, Human Rights and Legislative procedure	AJMC02		✓	
47.	Irrigation Engineering and Hydraulic Structures	AJ6120	✓		
48.	Structural Analysis-II	AJ6121	✓		
49.	Design of Steel Structures	AJ6122	✓		
50.	Bridge Engineering	AJ6137	✓		
51.	Watershed Management	AJ6138	✓		
52.	Rehabilitation and Retrofitting of Structures	AJ6139	✓		
53.	Advanced Communication Skills Lab	AJ6015			✓
54.	Soil Mechanics Lab	AJ6123			✓
55.	Structural Engineering Detailing Lab	AJ6124			✓
56.	Energy Studies	AJMC03	✓		
57.	Ground Improvement Techniques	AJ8146	✓		
58.	Railway and Airport Engineering Finite	AJ8147	✓		
59.	Element Method	AJ8148	✓		
60.	Construction Planning and Project Management	AJ8149	✓		
61.	Industrial Waste Water Treatment	AJ8150	✓		
62.	Advanced Reinforced Concrete Structures	AJ8151	✓		
63.	Electrical Circuits – I	AJ2201	✓		
64.	Basic Electronics Engineering	AJ2401	✓		
65.	Basic Electronics Lab	AJ2402			✓
66.	Electromagnetic fields	AJ3205	✓		
67.	Electrical circuits-II	AJ3206	✓		
68.	Electrical Machines-I	AJ3208	✓		
69.	Electrical Circuits Lab	AJ3207			✓
70.	Electrical Machines-I Lab	AJ3209			✓
71.	Value Education ,Human Rights and Legislative Procedures	AJMC02		✓	
72.	Power systems-I	AJ4210	✓		
73.	Electrical Machines-II	AJ4211	✓		
74.	Switching Theory and Logic Design	AJ4404	✓		
75.	IC Applications	AJ4417	✓		
76.	Fluid Mechanics and Hydraulic Machinery Lab	AJ4112			✓
77.	Basic Electrical Simulation Lab	AJ4246			✓
78.	IC & HDL Simulation Lab	AJ4421			✓
79.	Control Systems	AJ5214	✓		
80.	Power system-II	AJ5216	✓		
81.	Electrical Machines-III	AJ5217	✓		
82.	Power Electronics	AJ5219	✓		
83.	Managerial Economics and Financial Accountancy	AJ5E02		✓	
84.	Disaster Management and Mitigation	AJ5129		✓	
85.	Thermal Sciences	AJ5361	✓		
86.	Energy Storage Systems	AJ5221	✓		
87.	Electrical Engineering Materials	AJ5222	✓		
88.	Control Systems Lab	AJ5215			✓
89.	Electrical Machines-II Lab	AJ5218			✓
90.	Switch Gear and Protection	AJ6223	✓		
91.	Power Semi conductor Drives	AJ6224	✓		
92.	Utilization of Electrical Energy	AJ6228	✓		
93.	Power System Reliability	AJ6229	✓		
94.	Power Electronics Lab	AJ6225			✓
95.	Electrical Measurements Lab	AJ6227			✓

96.	Engineering Mechanics-II	AJ2302	✓		
97.	Engineering Graphics-II	AJ2305	✓		
98.	Engineering Workshop & IT Work Shop	AJ2307			✓
99.	Thermodynamics	AJ3308	✓		
100.	Mechanics of solids	AJ3309	✓		
101.	Metallurgy and Material Science	AJ3311	✓		
102.	Production Technology	AJ3313	✓		
103.	Metallurgy and Material Science Lab	AJ3312			✓
104.	Mechanics of Solids Lab	AJ3310			✓
105.	Production Technology Lab	AJ3314			✓
106.	Thermal Engineering-I	AJ4315	✓		
107.	Mechanics of Fluids & Hydraulic Machines	AJ4316	✓		
108.	Mechanics of Fluids & Hydraulic Machines Lab	AJ4317	✓		
109.	Thermal Engineering-II	AJ5319	✓		
110.	Kinematics of Machinery	AJ5321	✓		
111.	Machine Tools	AJ5322	✓		
112.	Refrigeration and Air Conditioning	AJ5339	✓		
113.	Renewable Energy Sources	AJ5340	✓		
114.	Thermal Engineering Lab	AJ5320			✓
115.	Machine Tools Lab	AJ5323			✓
116.	Dynamics of Machinery	AJ6326	✓		
117.	Design of Machine Elements	AJ6327	✓		
118.	Finite Element Method	AJ6342	✓		
119.	Plant Layout & Material Handling	AJ6343	✓		
120.	Heat Transfer Lab	AJ6329			✓
121.	Network Theory	J1204	✓		
122.	Electronic Devices and Circuits	J3401	✓		
123.	Electrical Technology	J3208	✓		
124.	Signals and Systems	J3402	✓		
125.	Probability Theory and Stochastic Process	J3403	✓		
126.	Electronic Devices and Circuits Lab	J3404			✓
127.	Basic Simulation Lab	J3405			✓
128.	Electrical Technology Lab	J3209			✓
129.	Analog Communications	J4406	✓		
130.	Pulse and Digital Circuit	J4407	✓		
131.	Electronic Circuit Analysis	J4408	✓		
132.	Digital System Design	J4409	✓		
133.	Electromagnetic Waves and Transmission Lines	J4410	✓		
134.	Pulse and Digital Circuits Lab	J4411			✓
135.	Electronic Circuit Analysis Lab	J4412			✓
136.	Analog Communications Lab	J4413			✓
137.	IC Applications	J5414	✓		
138.	Digital Signal Processing	J5415	✓		
139.	Digital Communications	J5455	✓		
140.	Antennas and Wave propagation	J5416	✓		
141.	Power Electronics	J5217	✓		
142.	Bio Medical Electronics	J5418	✓		
143.	IC Applications Lab	J5420			✓
144.	Digital Signal Processing Lab Digital Communications Lab	J5421			✓
145.	Internship	J5480			✓
146.	Linear Control Systems	J6422	✓		
147.	VLSI Technology	J6423	✓		
148.	Microprocessors and Microcontrollers	J6424	✓		
149.	Electronic Measurements and Instrumentation	J6425	✓		

150.	Information Theory and Coding	J6426	✓		
151.	Speech and Audio Processing	J6427	✓		
152.	Nano Electronics	J6428	✓		
153.	e-CAD & VLSI Lab	J6429			✓
154.	Microprocessors and Microcontrollers Lab	J6430			✓
155.	Microwave and Optical Communication	J7431	✓		
156.	Computer Networks	J7526	✓		
157.	Adaptive Signal Processing	J7432	✓		
158.	Wireless Communication Networks	J7433	✓		
159.	Image and Video Processing	J7434	✓		
160.	High Speed Electronics	J7435	✓		
161.	Wavelet	J7436	✓		
162.	Embedded systems	J7437	✓		
163.	Error Correcting Codes	J7438	✓		
164.	Introduction to MEMS	J7439	✓		
165.	RF circuit Design	J7440	✓		
166.	Microwave & Optical Fiber Communication Lab	J7441	✓		
167.	CMOS Design	J8443	✓		
168.	Scientific Computing	J8444	✓		
169.	Radar Systems	J8445	✓		
170.	Mixed Signal Design	J8446	✓		
171.	Wireless sensor Networks	J8447	✓		
172.	Satellite Communication	J8448	✓		
173.	Analog Communications	J4406	✓		
174.	Pulse and Digital Circuit	J4407	✓		
175.	Electronic Circuit Analysis	J4408	✓		
176.	Basic Electrical & Electronics Engineering Lab	AJ204			✓
177.	Engineering Workshop	AJ306	✓		
178.	Data Structures through C++ Lab	AJ507			✓
179.	Mathematical Foundations of Computer Science	AJ3006	✓		
180.	Switching Theory and Digital Logic Design	AJ3404	✓		
181.	Computer Organization	AJ3416	✓		
182.	Database Management Systems	AJ3511	✓		
183.	Java Programming	AJ3512	✓		
184.	Database Management Systems Lab	AJ3513			✓
185.	Java Programming Lab	AJ3514			✓
186.	Probability and Statistics	AJ4005	✓		
187.	Design and Analysis of Algorithms	AJ4515	✓		
188.	Formal Languages and Automata Theory	AJ4516	✓		
189.	Operating Systems	AJ4517	✓		
190.	Software Engineering	AJ4518	✓		
191.	Operating Systems Lab	AJ4519			✓
192.	CASE Tools Lab	AJ4520			✓
193.	Gender Sensitization	AJMC01	✓		
194.	Microprocessors and Interfacing	AJ5451	✓		
195.	Computer Networks	AJ5521	✓		
196.	Compiler Design	AJ5522	✓		
197.	Machine Learning	AJ5523	✓		
198.	Computer Forensics	AJ5524	✓		
199.	Advanced Databases	AJ5525	✓		
200.	Microprocessors and Interfacing Lab	AJ5452			✓
201.	Compiler Design & Computer Networks Lab	AJ5526			✓
202.	Value Education, Human Rights and Legislative Procedures	AJMC02		✓	
203.	Data Warehousing and Data Mining	AJ6527	✓		

204.	Web Programming	AJ6528	✓		
205.	Network Security	AJ6529	✓		
206.	High Performance Computing	AJ6533	✓		
207.	Design Patterns	AJ6534	✓		
208.	Software Project Management	AJ6535	✓		
209.	Data Warehousing and Data Mining LAB	AJ6536			✓
210.	Web Programming Lab	AJ6537			✓
211.	Visual Programming Lab	AJ6538			✓
212.	Network Programming	AJ7539	✓		
213.	Mobile Application Development	AJ7540	✓		
214.	Software Testing Methodologies	AJ7541	✓		
215.	Computer Graphics and Multimedia	AJ7542	✓		
216.	Digital Image Processing	AJ7433	✓		
217.	Embedded Systems	AJ7431	✓		
218.	Information Retrieval Systems	AJ7545	✓		
219.	Secure Software Engineering	AJ7546	✓		
220.	Network Programming Lab	AJ7547			✓
221.	Mobile Application Development Lab	AJ7548			✓
222.	Mini Project	AJ7581			✓
223.	E-Commerce	AJ8549		✓	
224.	Semantic web and social networks	AJ8550	✓		
225.	Web services	AJ8551	✓		
226.	Human computer interaction	AJ8552	✓		
227.	Big data management	AJ8553	✓		
228.	Soft computing	AJ8554	✓		
229.	Technical seminar	AJ 8582			✓
230.	Comprehensive viva voce	AJ8583			✓
231.	Major project	AJ8584			✓
232.	Data Structures and Algorithms	AJD581C01	✓		
233.	Database Internals	AJD581C02	✓		
234.	Distributed Systems	AJD581C03	✓		
235.	Network Security	AJD581E01	✓		
236.	Android Application Development	AJD581E02	✓		
237.	Cloud Computing	AJD581E03	✓		
238.	Internet of Things	AJD581E04	✓		
239.	Machine Learning	AJD581E05	✓		
240.	Parallel and Distributed Algorithms	AJD581E06	✓		
241.	Software Architecture and Design Patterns	AJD581E07	✓		
242.	Embedded Systems	AJD581E08	✓		
243.	Data Structures and Algorithms Lab	AJD581L1			✓
244.	Seminar	AJD581S1			✓
245.	Network Programming	AJD581C04	✓		□
246.	Information Retrieval Systems	AJD581C05	✓		
247.	Internet Technologies and Services	AJD581C06	✓		
248.	Data Mining	AJD581E09	✓		
249.	Storage Area Networks	AJD581E10	✓		
250.	Semantic Web and Social Networks	AJD581E11	✓		
251.	Cyber Security	AJD581E12	✓		
252.	Big Data Analytics	AJD581E13	✓		
253.	Soft Computing	AJD581E14	✓		
254.	Software Process and Project Management	AJD581E15	✓		
255.	Distributed Computing	AJD581E16	✓		
256.	Internet Technologies and Services Lab	AJD581L2			✓
257.	Seminar	AJD581S2			✓
258.	Comprehensive Viva-Voce	AJDCV58			✓

259.	Project	AJDPE58			✓
260.	OPERATIONS MANAGEMENT	AJBM13	✓		
261.	STRATEGIC MANAGEMENT	AJBM14	✓		
262.	RESEARCH METHDOLOGY	AJBM15	✓		
263.	PERSONAL EFFECTIVENESS - SEMINAR	AJBM56	✓		
264.	BUSINESS BEST PRACTICES AND SUCCESS	AJBM57	✓		
265.	CONSUMER BEHAVIOUR	AJBMEM18		✓	
266.	SALES AND DISTRIBUTION	AJBMEM19		✓	
267.	INTEGRATED MARKETING COMMUNICATIONS	AJBMEM20		✓	
268.	STRATEGIC MANAGEMENT ACCOUNTING	AJBMEF26		✓	
269.	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT	AJBMEF27		✓	
270.	FINANCIAL INSTITUTIONS, MARKETS & SERVICES	AJBMEF28		✓	
271.				✓	
272.	PERFORMANCE MANAGEMENT	AJBMEH35		✓	
273.	TRAINING AND DEVELOPMENT	AJBMEH36		✓	
274.	MANAGEMENT OF INDUSTRIAL RELATIONS	AJBMEH37		✓	
275.	ENTREPRENUERSHIP	AJBM16		✓	
276.	TECHNOLOGY MANAGEMENT	AJBM17		✓	
277.	PRE SUBMISSION OF PROJECT –SEMINAR	AJBM58		✓	
278.	COMPREHENSIVE VIVA	AJBM59		✓	
279.	PROJECT	AJBM60			✓
280.	RETAILING MANAGEMENT	AJBMEM21		✓	
281.	SERVICES MARKETING	AJBMEM22		✓	
282.	INTERNATIONAL MARKETING	AJBMEM23		✓	
283.	STRATEGIC INVESTMENT AND FINANCING DECISIONS	AJBMEF29		✓	
284.	INTERNATIONAL FINANCIAL MANAGEMENT	AJBMEF30		✓	
285.	FINANCIAL DERIVATIVES	AJBMEF31		✓	
286.	COMPENSATION & REWARD MANAGEMENT	AJBMEH38		✓	
287.	INTERNATIONAL HUMAN RESOURCE MANAGEMENT	AJBMEH39		✓	
288.	LEADERSHIP & CHANGE MANAGEMENT	AJBMEH40		✓	
289.	Management Theory and Organization Behavior	J18MB101		✓	
290.	Business Economics	J18MB102		✓	
291.	Financial Accounting and Analysis	J18MB103		✓	
292.	Business Law and Ethics	J18MB104		✓	
293.	Statistics for Management	J18MB105		✓	
294.	E-Commerce	J18MB106		✓	
295.	Computer Applications for Business Statistics - Lab	J18MB107		✓	
296.	Business Communication (seminar)	J18MB108			✓
297.	Entrepreneurship	J18MB201		✓	
298.	Quantitative Analysis for Business Decisions	J18MB202		✓	
299.	Marketing Management	J18MB203		✓	
300.	Human Resource Management	J18MB204		✓	
301.	Financial Management	J18MB205		✓	
302.	Indian Ethos	J18MB206		✓	