



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade

Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956

Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

Date: 16-08-2022

List of All the courses of All the programs for the Academic Year 2019-2020

S. No	Course Code	Name of the Course
1	16IM501	Financial Management
2	16IM502	Marketing Management
3	16IM503	Human Resource Management
4	16IM504	Production and Operations Management
5	16IM505	Research Methodology
6	16IM601	Operations Research
7	16IM602	International Business
8	16IM603	Strategic Management
9	16IM604	Decision Support Systems
10	16IM605	Mini Project*
11	16IM701	Knowledge Management
12	16IM702	Strategic Cost Management
13	16IM703A	HR Planning
14	16IM703B	E-Business
15	16IM703C	Consumer Behavior
16	16IM703D	Security Analysis
17	16IM704A	Banking and Insurance Management
18	16IM704B	Leadership Management
19	16IM704C	RDBMS
20	16IM704D	Rural Marketing
21	16IM705A	Supply Chain Management
22	16IM705B	Advanced Management Accounting
23	16IM705C	Compensation and Reward Management
24	16IM705D	Web Designing
25	16IM801A	Total Quality Management
26	16IM802B	Project Management
27	16IM803A	Customer Relationship Management
28	16IM803B	Strategic Financial Management
29	16IM803C	Performance Management

S. No	Course Code	Name of the Course
30	16IM803D	System Analysis & Design
31	16IM804A	Business Intelligence
32	16IM804B	Strategic Marketing Management
33	16IM804C	Portfolio Management
34	16IM804D	Strategic Human Resource Management
35	16IM805A	Organizational Development & Change Management
36	16IM805B	Enterprise Resource Planning
37	16IM805C	Services Marketing
38	16IM805D	Financial Markets and Services
39	171AG3L01	Soil Science and Agronomy Field Lab
40	171AG3T01	Principles of Soil Science and Agronomy
41	171AG3T02	Renewable Energy Sources
42	171AG3T03	Ground Water Hydrology , Wells and Pumps
43	171AG4T04	Thermodynamics and Refrigeration Systems
44	171AG4T05	Heat and Mass Transfer
45	171AG4T06	Soil Mechanics
46	171AG4T07	Surface Water Hydrology
47	171AG4T08	Engineering Properties of Biological Materials and Food Quality
48	171AG5E01	Agro Industries and Bi-Product Utilization
49	171AG5E02	Rural Water Supply, Sanitation and Environmental Engineering
50	171AG5L02	Agricultural Process Engineering Lab
51	171AG5L03	Field Operation and Maintenance of Tractors Lab
52	171AG5S01	MOOCs – I
53	171AG5T09	Theory of Structures
54	171AG5T10	Irrigation and Drainage Engineering
55	171AG5T11	Agricultural Process Engineering
56	171AG5T12	Agricultural Extension Techniques and Business Management
57	171AG5T13	Farm Power and Tractor Systems
58	171AG6E03	GIS and Remote Sensing
59	171AG6E04	Human Engineering and Safety
60	171AG6E05	Production Technology of Agricultural Machinery
61	171AG6E06	Green House / Poly House Technology

S. No	Course Code	Name of the Course
62	171AG6E07	Optimization, Operations Research and Systems Engineering
63	171AG6E08	Industrial Engineering and Management
64	171AG6L04	Farm Machinery Lab - I
65	171AG6L05	Soil and Water Engineering Lab
66	171AG6S02	MOOCs - II
67	171AG6T14	Soil and Water Conservation Engineering
68	171AG6T15	Farm Machinery and Equipment – I
69	171AG6T16	Design of Soil, Water Conservation and Farm Structures
70	171AG6T17	Post Harvest Engineering for Horticulture Produce
71	171BS3T08	Mathematical Foundations, of Computer Science
72	171BS3T09	Complex Variables
73	171BS3T10	Probability and Statistics
74	171BS4T10	Probability and Statistics
75	171CE3L01	Surveying Lab
76	171CE3T01	Building Materials and Construction
77	171CE3T02	Surveying
78	171CE3T03	Fluid Mechanics
79	171CE4L02	Fluid Mechanics and Hydraulic Machinery Lab
80	171CE4L03	Concrete Technology Lab
81	171CE4T04	Building Planning and Computer Aided Drawing
82	171CE4T05	Concrete Technology
83	171CE4T06	Engineering Geology
84	171CE4T07	Hydraulics and Hydraulic Machinery
85	171CE4T08	Strength of Materials – II
86	171CE4T09	Structural Analysis - I
87	171CE5E01	Construction Technology and Management
88	171CE5E02	Urban Hydrology
89	171CE5E03	Traffic Engineering
90	171CE5L04	Engineering Geology Lab
91	171CE5L05	Transportation Engineering Lab
92	171CE5P03	Surveying Camp
93	171CE5S01	MOOCs – I
94	171CE5T10	Design and Drawing of Reinforced Concrete Structures

S. No	Course Code	Name of the Course
95	171CE5T11	Transportation Engineering
96	171CE5T12	Structural Analysis - II
97	171CE5T13	Water Resource Engineering - I
98	171CE6E04	PE II Ground Water Development
99	171CE6E05	Pavement Analysis and Design
100	171CE6E06	Repair and Rehabilitation of Structures
101	171CE6E07	PE III Ground Improvement Techniques
102	171CE6E08	Finite Element Methods
103	171CE6E09	Earthquake Resistant Design
104	171CE6L06	Geotechnical Engineering Lab
105	171CE6L07	Irrigation Design and Drawing
106	171CE6S02	MOOCs - II
107	171CE6T14	Design and Drawing of Steel Structures
108	171CE6T15	Geotechnical Engineering - I
109	171CE6T16	Water Resource Engineering - II
110	171CE6T17	Prestressed Concrete
111	171CS3L01	Object Oriented Programming Lab
112	171CS3L02	Advanced Data Structures Lab
113	171CS3T02	Statistics with R Programming
114	171CS3T03	Object Oriented Programming Through C++
115	171CS3T04	Advanced Data Structures
116	171CS4L03	Java Programming Lab
117	171CS4L04	Database Management Systems Lab
118	171CS4T05	Software Engineering
119	171CS4T06	Formal Languages and Automata Theory
120	171CS4T07	Java Programming
121	171CS4T08	Database Management Systems
122	171CS4T09	Principles of Programming Languages
123	171CS4T10	Computer Organization
124	171CS5E01	Unix and Shell Programming
125	171CS5E02	Advanced Computer Architecture
126	171CS5E03	Computer Graphics
127	171CS5E04	Software Testing Methodologies
128	171CS5L05	Operating System and Linux Lab
129	171CS5L06	Python Programming Lab
130	171CS5L07	Software Testing Lab

S. No	Course Code	Name of the Course
131	171CS5L08	Compiler Design Lab
132	171CS5S01	MOOCS-I
133	171CS5S02	MOOCS II
134	171CS5T11	Compiler Design
135	171CS5T12	Python Programming
136	171CS5T13	Design and Analysis of Algorithms
137	171CS5T14	Operating Systems
138	171CS6E05	Software Quality Assurance
139	171CS6E06	Bio Informatics
140	171CS6E07	Human Computer Interaction
141	171CS6E08	Social Networks and Semantic Web
142	171CS6E09	Pattern Recognition
143	171CS6E10	Parallel Computing
144	171CS6E11	Storage Area Networks
145	171CS6E12	E - Commerce
146	171CS6L09	Computer Networks Lab
147	171CS6L10	Data Warehousing and Data Mining Lab
148	171CS6L11	Web Technologies Lab
149	171CS6S02	MOOCs – II
150	171CS6T15	Computer Networks
151	171CS6T16	Web Technologies
152	171CS6T17	Data Ware Housing and Data Mining
153	171EC3L01	Electronic Devices and Circuits Lab
154	171EC3T01	Electronic Devices and Circuits
155	171EC3T02	Switching Theory and Logic Design
156	171EC3T03	Signals and Systems
157	171EC3T04	Random Variables and Stochastic Processes
158	171EC4L02	Electronic Circuit Analysis Lab
159	171EC4L03	Analog Communications Lab
160	171EC4T05	Electronic Circuit Analysis
161	171EC4T06	Electromagnetic Waves and Transmission Lines
162	171EC4T07	Analog Communications
163	171EC4T08	Pulse and Digital Circuits
164	171EC5E01	Computer Architecture and Organization
165	171EC5E02	OOPS through JAVA
166	171EC5E03	Electronic Switching Systems

S. No	Course Code	Name of the Course
167	171EC5L04	Linear IC Applications Lab
168	171EC5L05	Digital IC Applications Lab
169	171EC5L06	Pulse and Digital Circuits Lab
170	171EC5S01	MOOCs-I
171	171EC5T09	Linear IC Applications
172	171EC5T10	Digital IC Applications
173	171EC5T11	Digital Communications
174	171EC5T12	Antennas and Wave Propagation
175	171EC6E04	CPLD and FPGA Architectures
176	171EC6E05	Operating Systems
177	171EC6E06	Computer Networks
178	171EC6E07	Digital Design Through Verilog
179	171EC6E08	Biomedical Engineering
180	171EC6E09	Information Theory and Coding
181	171EC6L07	Micro Processor and Micro Controllers Lab
182	171EC6L08	VLSI lab
183	171EC6L09	Digital Communications Lab
184	171EC6S02	MOOCs-II
185	171EC6T13	Micro Processors and MicroControllers
186	171EC6T14	VLSI Design
187	171EC6T15	Digital Signal Processing
188	171EE3L01	Electrical Circuits Lab
189	171EE3T02	Electrical Circuit Analysis - II
190	171EE3T03	Electrical Machines – I
191	171EE3T04	Basic Electronics Devices and Circuits
192	171EE3T05	Electromagnetic Fields
193	171EE4L02	Electronic Devices and Circuits Lab
194	171EE4L03	Electrical Machines - I Lab
195	171EE4T06	Electrical Measurements
196	171EE4T07	Electrical Machines - II
197	171EE4T08	Control Systems
198	171EE4T09	Power Systems – I
199	171EE5E01	Renewable Energy Sources
200	171EE5E02	Modeling and Analysis of Electrical Machines
201	171EE5E03	Electrical Safety
202	171EE5L04	Electrical Measurements Lab

S. No	Course Code	Name of the Course
203	171EE5L05	Electrical Machines - II Lab
204	171EE5L06	Control Systems Lab
205	171EE5S01	MOOCs - I
206	171EE5T10	Power Systems – II
207	171EE5T11	Power Electronics
208	171EE5T12	Pulse and Digital Circuits
209	171EE5T13	Signals and Systems
210	171EE6E04	Computer Architecture
211	171EE6E05	Electrical Distribution Systems
212	171EE6E06	Distributed Generation and Microgrid
213	171EE6E07	Advanced Control Systems
214	171EE6E08	PLC and Applications
215	171EE6E09	Instrumentation
216	171EE6E10	OOPs through JAVA
217	171EE6L07	Data Structures Lab
218	171EE6L08	Power Electronics Lab
219	171EE6S02	MOOCs - II
220	171EE6T14	Power Electronic Controllers and Drives
221	171EE6T15	Power System Analysis
222	171EE6T16	Micro Processor and Micro Controllers
223	171EE6T17	Data Structures
224	171ES3L03	Strength of Materials Lab
225	171ES3L04	Thermal and Hydro Prime Movers Lab
226	171ES3L05	Basic Electrical And Electronics Engg. Lab
227	171ES3L06	Mechanics of Solids and Metallurgy Lab
228	171ES3L08	Networks and Electrical Technology Lab
229	171ES3L09	Basic Engineering Lab
230	171ES3L10	Geology and Surveying Lab
231	171ES3L11	Surveying and Leveling Lab
232	171ES3L12	Electrical and Electronics Lab
233	171ES3L13	Basic Mechanical Engineering Lab
234	171ES3T05	Basic Electrical and Electronics Engineering
235	171ES3T09	Strength of Materials - I
236	171ES3T10	Thermal and Hydro Prime Movers
237	171ES3T11	Mechanics of Solids
238	171ES3T12	Thermodynamics

S. No	Course Code	Name of the Course
239	171ES3T13	Metallurgy and Materials Science
240	171ES3T14	Fluid Mechanics and Hydraulic Machinery
241	171ES3T15	Network Analysis
242	171ES3T16	Materials Science and Engineering
243	171ES3T17	General Geology
244	171ES3T18	Surveying and Offshore Structures
245	171ES3T19	Properties and Strength of Materials
246	171ES3T20	Electrical and Electronics Engineering
247	171ES3T21	Surveying and Leveling
248	171ES3T22	Material Engineering
249	171ES3T23	Digital Logic Design
250	171ES4L07	Fluid mechanics and Hydraulic Machinery Lab
251	171ES4L14	Fluid Mechanics and Open Channel Hydraulics Lab
252	171ES4L15	Machine Drawing and Computer Graphics Lab
253	171ES4T24	Digital Circuits and Logic Design
254	171ES4T25	Fluid Mechanics and Open Channel Hydraulics
255	171ES4T27	Kinematics Of Machinery
256	171ES4T28	Linear Control Systems
257	171HS3A09	Professional Ethics and Human Values
258	171HS3A10	Employability Skills - I
259	171HS3T04	Managerial Economics and Financial Analysis
260	171HS4A04	Managerial Economics and Financial Analysis
261	171HS4A08	IPR and Patents
262	171HS4A11	Employability Skills - II
263	171HS4T05	Management Science
264	171HS4T08	IPR and Patents
265	171HS5E01	Managerial Economics and Financial Analysis
266	171HS5T04	Managerial Economics and Financial Analysis
267	171HS5T05	Management Science
268	171HS5T06	Employability Skills - III
269	171HS5T08	Intellectual Property Rights and Patents
270	171HS6T07	Employability skills - IV

S. No	Course Code	Name of the Course
271	171IT4T01	Language Processors
272	171IT5E01	Artificial Intelligence
273	171IT5L01	Operating Systems and Computer Networks Lab
274	171IT5L02	Unix and Shell Programming Lab
275	171IT5S01	MOOCs – I
276	171IT5T02	Computer Networks
277	171IT5T03	Unix and Shell Programming
278	171IT6E02	Neural Networks
279	171IT6E03	Design and Analysis of Algorithms
280	171IT6E04	Advanced Computer Networks
281	171IT6E05	Multimedia Programming
282	171IT6L03	Unified Modeling Language Lab
283	171IT6T04	Object Oriented Analysis and Design Using UML
284	171ME3T01	Computer Aided Engineering Drawing Practice
285	171ME4L01	Production Technology Lab
286	171ME4T02	Kinematics of Machinery
287	171ME4T03	Thermal Engineering -I
288	171ME4T04	Production Technology
289	171ME4T05	Design of Machine members-I
290	171ME4T06	Industrial Engineering and Management
291	171ME4T07	Machine Drawing
292	171ME5E01	Automobile Engineering
293	171ME5E02	Mechanical Vibrations
294	171ME5E03	Additive Manufacturing
295	171ME5L02	Theory of Machines Lab
296	171ME5L03	Thermal Engineering Lab
297	171ME5S01	MOOCS-I
298	171ME5T08	Dynamics of Machinery
299	171ME5T09	Metal Cutting and Machine Tools
300	171ME5T10	Thermal Engineering -II
301	171ME5T11	Design of Machine members-II
302	171ME5T12	Operations Research
303	171ME6E04	Robotics
304	171ME6E05	Design for Manufacturing
305	171ME6E06	Non Destructive Evaluation

S. No	Course Code	Name of the Course
306	171ME6E07	Unconventional Machining Processes
307	171ME6E08	Industrial Hydraulics and Pneumatics
308	171ME6E09	Quality and Reliability Engineering
309	171ME6L04	Machine Tools Lab
310	171ME6L05	Heat Transfer Lab
311	171ME6L06	Metrology and Instrumentation Lab
312	171ME6S02	MOOCS-II
313	171ME6T13	Heat Transfer
314	171ME6T14	Refrigeration and Air Conditioning
315	171ME6T15	Metrology and Instrumentation
316	171MI3T01	Introduction To Mining Technology
317	171MI3T02	Basic Mechanical Engineering For Mines
318	171MI3T03	Mining Geology-I
319	171MI4L01	Geology Lab
320	171MI4L02	Computer Application In Mining Lab
321	171MI4T04	Computer Application In Mining
322	171MI4T05	Mining Geology –II
323	171MI4T06	Mine Surveying – I
324	171MI4T07	Surface Mining
325	171MI4T08	Fundamentals Of Rock Mechanics
326	171MI5E01	Maintenance and Reliability Engineering
327	171MI5E02	Mine Construction and Management
328	171MI5E03	Industrial Management and Labor Relations
329	171MI5L03	Rock Mechanics Lab
330	171MI5L04	Mine Surveying Lab
331	171MI5T09	Under Ground Coal Mining Technology
332	171MI5T10	Mine Environment Engineering - I
333	171MI5T11	Basic Geo Mechanics
334	171MI5T12	Mine Surveying - II
335	171MI6E04	Advanced Geo Mechanics
336	171MI6E05	Mine Fire and Spontaneous
337	171MI6E06	Mineral Exploration
338	171MI6E07	Advance Surveying Technology
339	171MI6E08	Mine Subsidence Engineering
340	171MI6E09	Rock Fragmentation Engineering
341	171MI6L05	Mineral Processing Technology Lab

S. No	Course Code	Name of the Course
342	171MI6L06	Environmental Engineering Lab
343	171MI6T13	Under Ground Metal Mining Technology
344	171MI6T14	Mineral Processing Technology
345	171MI6T15	Mine Environment Engineering - II
346	171MI6T16	Mining Machinery
347	171PT3T01	Chemical Process Calculations
348	171PT4L01	Momentum Transfer Lab
349	171PT4L02	Process Heat Transfer Lab
350	171PT4T02	Momentum Transfer
351	171PT4T03	Petroleum Geology
352	171PT4T04	Thermodynamics for Petroleum Engineers
353	171PT4T05	Process Heat Transfer
354	171PT5E01	Well Engineering and Design
355	171PT5E02	Fundamentals of Liquefied Natural Gas
356	171PT5E03	Pipeline Engineering
357	171PT5L03	Instrumentation, Process Dynamics and Control Lab
358	171PT5L04	Drilling Fluids Lab
359	171PT5T06	Process Dynamics and Control
360	171PT5T07	Petroleum Exploration
361	171PT5T08	Process Instrumentation
362	171PT5T09	Well Logging and Formation Evaluation
363	171PT5T10	Drilling Technology
364	171PT6E04	Petroleum Refining and Petrochemical Engineering
365	171PT6E05	Storage and Transportation of Crude Oil and Natural Gas.
366	171PT6E06	Reservoir Stimulation
367	171PT6E07	Natural Gas Hydrates
368	171PT6E08	Natural Gas Engineering
369	171PT6E09	Horizontal Well Technology
370	171PT6L05	Petroleum Analysis Lab
371	171PT6L06	Petroleum Réservoir Simulation Lab
372	171PT6T11	Well Completions, Testing and Services
373	171PT6T12	Petroleum Production Engineering
374	171PT6T13	Petroleum Reservoir Engineering - I
375	171PT6T14	Surface Production Operations
376	171SO3C01	Comprehensive Viva-Voce

S. No	Course Code	Name of the Course
377	171SO3R01	Seminar - I
378	171SO4P01	Project Work Part- - II
379	171SO4R02	Seminar - II
380	172C04P01	Project Work Part- - II
381	172CO3C01	Comprehensive Viva-Voce
382	172CO3R01	Seminar - I
383	172CO4R02	Seminar - II
384	172EM3C01	Comprehensive Viva-Voce
385	172EM3R01	Seminar - I
386	172EM4P01	Project Work Part- - II
387	172PD3C01	Comprehensive Viva-Voce
388	172PD3P01	Project Work Part – I
389	172PD3R01	Seminar – I
390	172PD4P01	Project Work Part- - II
391	172PD4R02	Seminar – II
392	172PE3C01	Comprehensive Viva-Voce
393	172PE3R01	Seminar - I
394	172PE4R01	Project Work Part- - II
395	172PE4R02	Seminar - II
396	172SE3C01	Comprehensive Viva – Voce
397	172SE3R01	Seminar-I
398	172SE4P01	Project Work Part –II
399	172SE4R02	Seminar –II
400	172TE3C01	Comprehensive Viva-Voce
401	172TE3R01	Seminar – I
402	172TE4C02	Seminar – II
403	172TE4P01	Project Work Part - II
404	172VD4P01	Project Work Part - II
405	173MC1L01	English Language Communication Skills Lab
406	173MC1L03	Statistics With R Programming Lab
407	173MC1T04	Statistics With R Programming
408	173MC2L06	Operating System & Computer Graphics Lab
409	173MC5E08	Computer Forensics
410	173MC5E10	Internet of Things
411	173MC5T21	Python Programming

S. No	Course Code	Name of the Course
412	174FI3E01	Security Analysis & Portfolio Management
413	174FI3E02	Banking & Insurance Management
414	174FI3E03	Advance Management Accounting
415	174FI3E04	Strategic Financial Management
416	174FI4E01	Financial Markets & Services
417	174FI4E02	Global Financial Management
418	174FI4E03	Risk Management
419	174FI4E04	Tax Management
420	174HR3E01	Leadership Management
421	174HR3E02	Compensation & Reward Management
422	174HR3E03	Performance Management
423	174HR3E04	Strategic Human Resource Management
424	174HR4E01	Organizational Development & Change Management
425	174HR4E02	Global Human Resource Management
426	174HR4E03	Labor Welfare & Legislation
427	174HR4E04	Management of Industrial Relations
428	174MA3E01	Consumer Behavior
429	174MA3E02	Retail Management
430	174MA3E03	Customer Relationship Management
431	174MA3E04	Strategic Marketing
432	174MA4E01	Services Marketing
433	174MA4E02	Promotional Distribution Management
434	174MA4E03	Global Marketing Management
435	174MA4E04	Supply Chain Management
436	174MB3T13	Strategic Management
437	174MB3T14	Legal Aspects of Business
438	174MB3T15	Business Ethics & Corporate Governance
439	174MB4P02	Major Project
440	174MB4T16	Logistic & Supply Chain Management
441	174MB4T17	Entrepreneurship Development
442	174SY3E01	E – Business
443	174SY3E02	Relational Database Management Systems
444	174SY3E03	Web Designing
445	174SY3E04	System Analysis & Design
446	174SY4E01	Business Intelligence
447	174SY4E02	Enterprise Resource Planning

S. No	Course Code	Name of the Course
448	174SY4E03	Cyber Laws & Security
449	174SY4E04	Information Systems Audit
450	175IM1T01	English Language – I
451	175IM1T02	Business Mathematics & Statistics
452	175IM1T03	Fundamentals of Business Organization
453	175IM1T04	Financial Accounting – I
454	175IM1T05	Fundamentals of Computers
455	175IM2T06	English Language – II
456	175IM2T07	Business Environment
457	175IM2T08	Managerial Economics
458	175IM2T09	Financial Accounting – II
459	175IM2T10	Organizational Communications
460	175IM3T11	Principles of Management
461	175IM3T12	Cost Accounting
462	175IM3T13	Banking Theory & Practice
463	175IM3T14	Business Law
464	175IM3T15	Entrepreneurship Development
465	175IM4T16	Organizational Behavior
466	175IM4T17	Management Accounting
467	175IM4T18	Company Law
468	175IM4T19	Elements of Direct & Indirect Taxes
469	175IM4T20	Management Information Systems
470	175IM5T21	Financial Management
471	175IM5T22	Marketing Management
472	175IM5T23	Human Resource Management
473	175IM5T24	Production & Operations Management
474	175IM5T25	Research Methodology
475	175IM6P01	Minor Project
476	175IM6T26	Operations Research
477	175IM6T27	International Business
478	175IM6T28	Strategic Management
479	175IM6T29	Decision Support Systems
480	191BS1L01	Engineering Physics Lab
481	191BS1L02	Engineering Chemistry Lab
482	191BS1L03	Applied Physics Lab
483	191BS1T01	Differential Equations and Linear Algebra
484	191BS1T02	Engineering Physics

S. No	Course Code	Name of the Course
485	191BS1T03	Applied Physics
486	191BS1T04	Engineering Chemistry
487	191BS2L04	Engineering Chemistry Lab
488	191BS2L05	Applied Physics Lab
489	191BS2T05	Partial Differential Equations and Vector Calculus
490	191BS2T08	Transform Techniques
491	191BS2T09	Engineering Chemistry
492	191BS2T10	Numerical Methods and Complex Variables
493	191BS3T11	Integral transforms and applications of PDE
494	191BS3T12	Transform Techniques
495	191BS3T13	Numerical Methods and Complex Variables
496	191BS3T14	Discrete Mathematics
497	191BS3T15	Numerical Methods and Integral Transforms
498	191BS4T16	Numerical Methods and Statistical Techniques
499	191BS4T17	Numerical Methods and Complex variables
500	191BS4T18	Probability & Statistics
501	191BS4T19	Complex Variables and Statistical Methods
502	191EE2T01	Electrical Circuits Analysis -I
503	191ES1L01	Programming for problem solving using C Lab
504	191ES1L02	Basic Engineering Workshop
505	191ES1T01	Programming For Problem Solving Using C
506	191ES2L03	Essential Electrical and Electronics Engineering Lab
507	191ES2L04	Civil Engineering Workshop
508	191ES2L05	Basic Civil and Mechanical Engineering Lab
509	191ES2L06	Electrical Engineering Workshop
510	191ES2L07	Mechanical Engineering Workshop
511	191ES2L08	Basic Electrical Engineering Lab
512	191ES2L09	Electronics Engineering Workshop
513	191ES2L10	Data Structures Through C++ Lab
514	191ES2L11	IT Workshop

S. No	Course Code	Name of the Course
515	191ES2L12	Mining Engineering Workshop
516	191ES2L13	Petroleum Technology Workshop
517	191ES2L14	Agricultural Engineering Workshop
518	191ES2T02	Engineering Graphics and Design
519	191ES2T03	Essential Electrical and Electronics Engineering
520	191ES2T04	Engineering Mechanics
521	191ES2T05	Data Structures Through C
522	191ES2T06	Basic Civil and Mechanical Engineering
523	191ES2T07	Basic Electrical Engineering
524	191ES2T08	Network Analysis
525	191ES2T09	Data Structures through C++
526	191HS1L01	Communicative English Lab-I
527	191HS1T01	Communicative English
528	191HS2L02	Communicative English Lab- II
529	191MC1A01	Environmental Science
530	191MC1A02	Constitution of India
531	191PR2P01	Engineering Exploration Project
532	1925T1E01	Matrix Analysis of Structures
533	1925T1E02	Analytical & Numerical Method for Structural Engineering
534	1925T1E03	Design of RCC Foundations
535	1925T1E04	Bridge Engineering
536	1925T1E05	Repair & Rehabilitation of Structures
537	1925T1E06	Advanced Reinforced Concrete Design
538	1925T1L01	Advanced Concrete Technology Laboratory
539	1925T1L02	Advanced Structural Engineering Laboratory
540	1925T2E07	Stability of Structures
541	1925T2E08	Advanced Steel Design
542	1925T2E09	Analysis of offshore Structures
543	1925T2E10	Earthquake Resistant Design of Buildings
544	1925T2E11	Precast and Prefabricated Structures
545	1925T2E12	Earth Retaining Structures
546	192CO1E05	Internet of Things
547	192CS1E01	Big Data Analytics
548	192CS1E02	Digital Image Processing
549	192CS1E03	Advanced Operating Systems

S. No	Course Code	Name of the Course
550	192CS1E04	Advanced Computer Networks
551	192CS1E05	Internet of Things
552	192CS1E06	Object Oriented Software Engineering
553	192CS1L01	Advanced Data Structures and Algorithms Lab
554	192CS1L02	Advanced Computing Lab
555	192CS1T01	Mathematical Foundations of Computer Science
556	192CS1T02	Advanced Data Structures and Algorithms
557	192CS2E07	Advanced Databases and Mining
558	192CS2E08	Ad Hoc and Sensor Networks
559	192CS2E09	Soft Computing
560	192CS2E10	Cloud Computing
561	192CS2E11	Principles of computer security
562	192CS2E12	High Performance Computing
563	192CS2L03	Machine Learning with Python lab
564	192CS2L04	MEAN Stack Technologies Lab
565	192CS2P01	Mini Project with Seminar
566	192CS2T03	Machine learning
567	192CS2T04	MEAN Stack Technologies
568	192EM1E01	Digital Signal and Image Processing
569	192EM1E02	Parallel Processing
570	192EM1E03	VLSI signal processing
571	192EM1E04	Programming Languages for Embedded Systems
572	192EM1E05	System Design with Embedded Linux
573	192EM1E06	CAD for Digital System
574	192EM1L01	Embedded System Design Lab (using Embedded-C)
575	192EM1L02	Microcontrollers and Programmable Digital Signal Processors Lab
576	192EM1T01	Embedded System Design
577	192EM1T02	Microcontrollers and Programmable Digital Signal Processors
578	192EM2E07	Memory Architectures
579	192EM2E08	SoC Design
580	192EM2E09	Sensors and Actuators
581	192EM2E10	Communication Buses and Interfaces
582	192EM2E11	Network Security and Cryptography

S. No	Course Code	Name of the Course
583	192EM2E12	Physical design automation
584	192EM2L03	Real Time Operating Systems Lab
585	192EM2L04	Digital System Design Lab
586	192EM2P01	Mini Project with Seminar
587	192EM2T03	Digital System Design
588	192EM2T04	Real Time Operating Systems
589	192HS1T01	Research Methodology and IPR
590	192MC1A01	English for Research Paper Writing
591	192MC1A02	Disaster Management
592	192MC1A03	Sanskrit for Technical Knowledge
593	192MC1A04	Value Education
594	192MC1A05	Constitution of India
595	192MC1A06	Pedagogy Studies
596	192MC1A07	Stress Management by Yoga
597	192MC1A08	Personality Development through Life Enlightenment Skills
598	192MC1A09	Soft Skills
599	192MC2A01	English for Research Paper Writing
600	192MC2A02	Disaster Management
601	192MC2A03	Sanskrit for Technical Knowledge
602	192MC2A04	Value Education
603	192MC2A05	Constitution of India
604	192MC2A06	Pedagogy Studies
605	192MC2A07	Stress Management by Yoga
606	192MC2A08	Personality Development through Life Enlightenment Skills
607	192MC2A09	Soft Skills
608	192PD1E01	Modern Control Theory
609	192PD1E02	Power Quality and Custom Power Devices
610	192PD1E03	Programmable Logic Controllers and Applications
611	192PD1E04	Artificial Intelligence Techniques
612	192PD1E05	Renewable Energy Technologies
613	192PD1E06	HVDC Transmission and Flexible AC Transmission Systems
614	192PD1L01	Power Electronics Simulation Laboratory
615	192PD1L02	Power Converters Laboratory
616	192PD1T01	Electrical Machine Modeling and Analysis

S. No	Course Code	Name of the Course
617	192PD1T02	Analysis of Power Electronic Converters
618	192PD2E07	Control and Integration of Renewable Energy Systems
619	192PD2E08	Hybrid Electric Vehicles
620	192PD2E09	Digital Control Systems
621	192PD2E10	Advanced Digital Signal Processing
622	192PD2E11	Applications of Power Converters
623	192PD2E12	Microcontrollers
624	192PD2L03	Electric Drives Simulation Laboratory
625	192PD2L04	Electric Drives Laboratory
626	192PD2P01	Mini Project with Seminar
627	192PD2T03	Switched Mode Power Conversion
628	192PD2T04	Power Electronic Control of Electrical Drives
629	192PE1E01	Advanced Numerical Methods and Applied Statistics
630	192PE1E02	CBM and Shale Gas Engineering
631	192PE1E03	Transportation of Oil and Gas
632	192PE1E04	Advanced Well Logging Techniques and Well Testing Analysis
633	192PE1L01	Advanced Numerical Methods and
634	192PE1L02	Drilling Simulation Laboratory
635	192PE1T01	Offshore Drilling.
636	192PE1T02	Fundamentals of Petroleum Geology and Reservoir Engineering
637	192PE1T03	Reservoir Stimulation
638	192PE1T04	Petroleum Well Drilling and Production Engineering.
639	192PE2E05	Advanced EOR Techniques
640	192PE2E06	Advanced Well Completions
641	192PE2E07	Flow Assurance
642	192PE2E08	Advanced Horizontal Well Technology
643	192PE2L03	Reservoir Simulation Laboratory
644	192PE2L04	Flow Assurance Laboratory
645	192PE2P01	Mini Project with Seminar
646	192PE2T05	Artificial Lift Techniques
647	192PE2T06	Reservoir Modeling and Simulation
648	192SE2L03	Software Testing Lab
649	192SE2L04	Software Engineering Lab – II
650	192SE2P01	Mini Project with Seminar

S. No	Course Code	Name of the Course
651	192SO1E01	Software Project and Process Management
652	192SO1E02	Machine Learning
653	192SO1E03	E-Commerce
654	192SO1E04	Software Quality Assurance and Testing
655	192SO1E05	Cloud Computing
656	192SO1L01	Advanced Data Structures Lab
657	192SO1L02	Software Engineering Lab – I
658	192SO1T01	Software Engineering
659	192SO1T02	Advanced Data Structures
660	192SO2E06	Software Testing Methodologies
661	192SO2E07	Agile Software Development
662	192SO2E08	ERP and Supply Chain Management
663	192SO2E09	Secure Software Engineering
664	192SO2E10	Big Data Analytics
665	192SO2E11	Design Patterns
666	192SO2T03	Service Oriented Architecture
667	192SO2T04	Mathematical Foundations of Computer Science
668	192ST1T01	Theory of Elasticity
669	192ST1T02	Structural dynamics
670	192ST1T03	Advanced Concrete Technology
671	192ST2L03	Computer Aided Design Laboratory
672	192ST2L04	Structural Design Laboratory
673	192ST2P01	Mini Project With Seminar
674	192ST2T04	Finite Element Methods in Structural Engineering
675	192ST2T05	Theory of Plates and Shells
676	192TE1E01	Advanced IC Engines, Electric and Hybrid vehicles
677	192TE1E02	Gas Dynamics
678	192TE1E03	Cryogenic Engineering
679	192TE1E04	Advanced Thermodynamics
680	192TE1E05	Gas Turbines
681	192TE1E06	Alternative Fuel Technologies
682	192TE1E07	Energy Conservation and Management
683	192TE1E08	Theory and Technology of Fuel Cells
684	192TE1L01	Computational Fluid Dynamics Lab-I

S. No	Course Code	Name of the Course
685	192TE1T01	Advanced Fluid Mechanics
686	192TE1T02	Computational Fluid Dynamics
687	192TE2E09	Equipment Design for Thermal Systems
688	192TE2E10	Solar Energy Technologies
689	192TE2E11	Advanced Power Plant Engineering
690	192TE2E12	Combustion, Emissions and Environment
691	192TE2E13	Jet propulsion and Rocket Engineering
692	192TE2E14	Automotive Engineering
693	192TE2E15	Modeling and I.C.Engines
694	192TE2E16	Renewable Energy Technologies
695	192TE2L03	Computational Fluid Dynamics Lab-II
696	192TE2L04	Thermal Engineering Lab -II
697	192TE2P01	Mini Project with Seminar
698	192TE2T03	Advanced Heat Transfer
699	192TE2T04	Thermal Measurements and Process Controls
700	192VD1E01	VLSI Technology
701	192VD1E02	Nano materials and Nanotechnology
702	192VD1E03	MEMS Technology
703	192VD1E04	Device Modelling
704	192VD1E05	Nano-Electronics
705	192VD1E06	Photonics
706	192VD1L01	CMOS Analog IC Design Lab
707	192VD1L02	CMOS Digital IC Design Lab
708	192VD1T01	CMOS Analog IC Design
709	192VD1T02	CMOS Digital IC Design
710	192VD2E07	Design For Testability
711	192VD2E08	IoT and Its Applications
712	192VD2E09	VLSI Signal Processing
713	192VD2E10	Microcontrollers and programmable Digital Signal Processors
714	192VD2E11	Low Power VLSI Design
715	192VD2L03	Mixed Signal IC Design Lab
716	192VD2L04	Physical Design Automation Lab
717	192VD2P01	Mini Project with Seminar
718	192VD2T03	Mixed Signal and RF IC Design
719	192VD2T04	Physical Design Automation
720	193MC1L03	IT Workshop (Lab)

S. No	Course Code	Name of the Course
721	194MB1L01	Business Communication and Soft Skills Lab.
722	194MB1L02	Information Technology – Lab – I (Spreadsheet and Tally)
723	194MB1O01	Cross Cultural Management.
724	194MB1O02	Rural Innovation Projects.
725	194MB1T01	Management and Organizational Behavior
726	194MB1T02	Managerial Economics
727	194MB1T03	Accounting for Managers
728	194MB1T04	Quantitative Analysis for Business Decisions
729	194MB1T05	Legal and Business Environment
730	194MB1T06	Business Communication and Soft Skills
731	194MB2L03	IT-Lab – 2 (R Programming)
732	194MB2O04	Project Management.
733	194MB2O05	Technology Management.
734	194MB2O06	Lean Management.
735	194MB2O07	Data base Management System.
736	194MB2T07	Financial Management
737	194MB2T08	Human Resource Management
738	194MB2T09	Marketing Management
739	194MB2T10	Operations Management
740	194MB2T11	Business Research Methods
741	194MBMOOC1	MOOCs: SWAYAM/NPTEL
742	195IM1T01	English Language – I
743	195IM1T02	Business Mathematics and Statistics
744	195IM1T03	Fundamentals of Business Organization
745	195IM1T04	Financial Accounting – I
746	195IM1T05	Fundamentals of Computers
747	195IM2T06	English Language – II
748	195IM2T07	Business Environment
749	195IM2T08	Managerial Economics
750	195IM2T09	Financial Accounting – II
751	195IM2T10	Organizational Communications
752	19MC1A01	English for Research Paper Writing
753	19MC1A02	Disaster Management
754	19MC1A03	Sanskrit for Technical Knowledge
755	19MC1A04	Value Education

S. No	Course Code	Name of the Course
756	19MC1A05	Constitution of India
757	19MC1A06	Pedagogy Studies
758	19MC1A07	Stress Management by Yoga
759	19MC1A08	Personality Development through Life Enlightenment Skills
760	19MC1A09	Soft Skills
761	19MC2A01	English for Research Paper Writing
762	19MC2A02	Disaster Management
763	19MC2A03	Sanskrit for Technical Knowledge
764	19MC2A04	Value Education
765	19MC2A05	Constitution of India
766	19MC2A06	Pedagogy Studies
767	19MC2A07	Stress Management by Yoga
768	19MC2A08	Personality Development through Life Enlightenment Skills
769	19MC2A09	Soft Skills
770	19TE1L02	Thermal Engineering Lab -I
771	92PD2P01	Mini Project with Seminar
772	R1632269	Industrial Training (3-4weeks)
773	R1641011	Environmental Engineering - II
774	R1641012	Water Resource Engineering - II
775	R1641013	Geotechnical Engineering - II
776	R1641014	Remote Sensing and GIS Applications
777	R1641017	GIS and CAD Lab
778	R1641018	Irrigation Design and Drawing
779	R1641019	IPR and Patents
780	R164101A	Finite Element Methods(Elective I)
781	R164101B	Ground Improvement Techniques
782	R164101C	Air Pollution and Control
783	R164101D	Urban Hydrology
784	R164101E	Traffic Engineering
785	R164101F	Advanced Structural Engineering (Elective II)
786	R164101G	Advanced Foundation Engineering
787	R164101H	Environmental Impact Assessment and Management
788	R164101I	Ground Water Development
789	R164101J	Pavement Analysis and Design
790	R1641021	Utilization of Electrical Energy

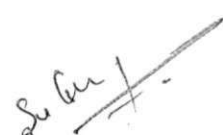
S. No	Course Code	Name of the Course
791	R1641022	Linear IC Applications
792	R1641023	Power System Operation and Control
793	R1641024	Switchgear and Protection
794	R1641027	Electrical Simulation Laboratory
795	R1641028	Power Systems and Simulation Laboratory
796	R164102A	Electrical Machine Modeling and Analysis
797	R164102B	Advanced Control Systems
798	R164102C	Programmable Logic Controllers and Applications
799	R164102D	Instrumentation
800	R164102E	Optimization Techniques
801	R164102F	Electric Power Quality
802	R164102G	Special Electrical Machines
803	R1641031	Mechatronics
804	R1641032	CAD/CAM
805	R1641033	Finite Element Methods
806	R1641034	Power Plant Engineering
807	R1641037	CAD/CAM Lab
808	R1641038	Mechatronics Lab
809	R164103A	Computational Fluid Dynamics
810	R164103B	Condition Monitoring
811	R164103C	Additive Manufacturing
812	R164103D	Advanced Materials
813	R164103E	Design for Manufacture
814	R164103F	Gas Dynamics and Jet Propulsion
815	R1641041	Radar Systems
816	R1641042	Digital Image Processing
817	R1641043	Computer Networks
818	R1641044	Optical Communications
819	R1641047	Micro Wave Engineering and Optical Lab
820	R1641048	Digital Signal Processing Lab
821	R164104A	TV Engineering
822	R164104B	Electronic Switching Systems
823	R164104C	System Design through Verilog
824	R164104D	Embedded Systems
825	R164104E	Analog IC Design

S. No	Course Code	Name of the Course
826	R164104F	Network Security and Cryptography
827	R1641051	Cryptography and Network Security
828	R1641052	Software Architecture and Design Patterns
829	R1641053	Web Technologies
830	R1641054	Managerial Economics and Financial Analysis
831	R1641057	Software Architectures and Design Patterns Lab
832	R1641058	Web Technologies Lab
833	R164105A	Big Data Analytics
834	R164105B	Information Retrieval Systems
835	R164105C	Mobile Computing
836	R164105D	Cloud Computing
837	R164105E	Software Project Management
838	R164105F	Scripting Languages
839	R1641121	Data Ware Housing and Business Intelligence
840	R1641127	Mobile Computing Lab
841	R1641128	Cryptography and Network Security Lab
842	R164112A	Internet of Things
843	R164112B	Multimedia Programming
844	R164112C	Machine Learning
845	R164112D	Decision Support System
846	R1641261	Computer Applications in Mining
847	R1641262	Underground Metal Mining Technology
848	R1641263	Rock Mechanics and Ground Control
849	R1641264	Mine Legislation and General Safety
850	R1641267	Computer Applications in Mining Lab
851	R1641268	Rock Mechanics and Ground Control Lab
852	R164126A	Rock Slope Engineering
853	R164126B	Mine Subsidence Engineering
854	R164126C	Rock Fragmentation Engineering
855	R164126D	Deep Sea Mining
856	R164126E	Mine Construction Engineering
857	R164126F	Tunneling Engineering
858	R1641271	Integrated Asset Management
859	R1641272	Petroleum Reservoir Engineering-II
860	R1641273	Surface Production Operations

S. No	Course Code	Name of the Course
861	R1641274	Oil and Gas Processing Plant Design
862	R1641277	Petroleum Equipment Design and Simulation Lab
863	R1641278	Petroleum Reservoir Simulation Lab
864	R164127A	Natural Gas Hydrates
865	R164127B	pipeline engineering
866	R164127C	Horizontal well technology
867	R164127D	Coal Bed Methane Engineering
868	R164127E	Offshore engineering
869	R164127F	Reservoir stimulation
870	R1641351	Micro Irrigation Engineering
871	R1641352	Farm Machinery and Equipments-II
872	R1641353	Post Harvest Engineering for Horticulture Produce
873	R1641354	Mechanical Measurements and Instrumentation
874	R1641357	Farm Machinery Lab-2
875	R1641358	Dairy and Food Engineering Lab
876	R164135A	Seed Processing and Storage Engineering
877	R164135B	Green House Technologies
878	R164135C	Food Processing Plant Design and Layout
879	R164135D	Watershed Management
880	R164135E	Food Packaging Technology
881	R164135F	Minor Irrigation and Command area development
882	R1642011	Estimation Specification and Contracts
883	R1642012	Construction Technology and Management
884	R1642013	Prestressed Concrete
885	R1642015	Seminar on Internship Project
886	R1642016	Project
887	R164201A	Bridge Engineering(Elective III)
888	R164201B	Soil Dynamics and Foundations
889	R164201C	Solid and Hazardous Waste Management
890	R164201D	Water Resources Systems Planning
891	R164201E	Urban Transportation Planning Engg
892	R1642021	Digital Control Systems
893	R1642022	HVDC Transmission
894	R1642023	Electrical Distribution Systems

S. No	Course Code	Name of the Course
895	R1642025	Seminar
896	R1642026	Project
897	R164202A	High Voltage Engineering
898	R164202B	Flexible Alternating Current Transmission Systems
899	R164202C	Power System Reforms
900	R1642031	Production Planning and Control
901	R1642032	Unconventional Machining Processes
902	R1642033	Automobile Engineering
903	R1642036	Project
904	R164203A	Thermal Equipment Design
905	R164203B	Non Destructive Evaluation
906	R164203C	Quality and Reliability Engineering
907	R1642041	Cellular Mobile Communications
908	R1642042	Electronic Measurements and Instrumentation
909	R1642043	Satellite Communications
910	R164204B	Digital IC Design
911	R1642051	Distributed Systems
912	R1642052	Management Science
913	R1642053	Machine Learning
914	R1642055	Seminar
915	R1642056	Project
916	R164205A	Concurrent and Parallel Programming
917	R164205B	Artificial Neural Network
918	R164205C	Operation Research
919	R1642121	Management Information System
920	R164212A	Cyber Security
921	R164212B	Software Quality Assurance
922	R1642261	Mine Economics and Investment
923	R1642262	Mine Health and Safety Engineering
924	R1642265	Seminar
925	R1642266	Project
926	R164226A	Planning of Underground Metal Mining Projects
927	R164226B	Planning of Underground Coal Mining Projects
928	R164226C	Planning of Surface Mining Projects
929	R1642271	EOR Techniques

S. No	Course Code	Name of the Course
930	R1642272	HSE and FE in Petroleum Industry
931	R1642273	Petroleum Economics Policies and Regulations
932	R1642275	Seminar(SIP Report Presentation)
933	R1642276	Project
934	R164227A	Shale Gas Reservoir Engineering
935	R164227B	Subsea Engineering
936	R164227C	Reservoir Modeling & Simulation
937	R1642351	Design of Agricultural Machinery
938	R1642352	Agricultural Extension Techniques and Business Managemet
939	R1642353	Agro Industries and Bi-product Utilization
940	R1642355	Seminar
941	R1642356	Project
942	R164235A	GIS and remote sensing
943	R164235B	Human Engineering and safety
944	R164235C	Production Technology of Agricultural Machinery


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