



ADITYA ENGINEERING COLLEGE

An Autonomous Institution

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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 2018-2019

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	171AG3L01	Soil Science and Agronomy Field Lab
12	171AG3T01	Principles of Soil Science and Agronomy
13	171AG3T02	Renewable Energy Sources
14	171AG3T03	Ground Water Hydrology , Wells and Pumps
15	171AG4T04	Thermodynamics and Refrigeration Systems
16	171AG4T05	Heat and Mass Transfer
17	171AG4T06	Soil Mechanics
18	171AG4T07	Surface Water Hydrology
19	171AG4T08	Engineering Properties of Biological Materials and Food Quality
20	171BS1L01	Engineering Chemistry Lab
21	171BS1L03	Applied Chemistry Lab
22	171BS1L04	Applied Physics Lab
23	171BS1T01	Mathematics - I
24	171BS1T02	Mathematics – II
25	171BS1T03	Engineering Chemistry
26	171BS1T04	Applied Physics
27	171BS1T05	Applied Chemistry
28	171BS2L02	Engineering Physics Lab
29	171BS2L03	Applied Chemistry Lab

S. No	Course Code	Name of the Course
30	171BS2L04	Applied Physics Lab
31	171BS2T02	Mathematics - II
32	171BS2T04	Applied Physics
33	171BS2T05	Applied Chemistry
34	171BS2T06	Mathematics - III
35	171BS2T07	Engineering Physics
36	171BS3T08	Mathematical Foundations of Computer Science
37	171BS3T09	Complex Variables
38	171BS3T10	Probability and Statistics
39	171BS4T10	Probability and Statistics
40	171CE3L01	Surveying Lab
41	171CE3T01	Building Materials and Construction
42	171CE3T02	Surveying
43	171CE3T03	Fluid Mechanics
44	171CE4L02	Fluid Mechanics and Hydraulic Machinery Lab
45	171CE4L03	Concrete Technology Lab
46	171CE4T04	Building Planning and Computer Aided Drawing
47	171CE4T05	Concrete Technology
48	171CE4T06	Engineering Geology
49	171CE4T07	Hydraulics and Hydraulic Machinery
50	171CE4T08	Strength of Materials – II
51	171CE4T09	Structural Analysis - I
52	171CS2T01	Data Structures through c
53	171CS3L01	Object Oriented Programming Lab
54	171CS3L02	Advanced Data Structures Lab
55	171CS3T02	Statistics with R Programming
56	171CS3T03	Object Oriented Programming Through C++
57	171CS3T04	Advanced Data Structures
58	171CS4L03	Java Programming Lab
59	171CS4L04	Database Management Systems Lab
60	171CS4T05	Software Engineering
61	171CS4T06	Formal Languages and Automata Theory
62	171CS4T07	Java Programming
63	171CS4T08	Database Management Systems
64	171CS4T09	Principles of Programming Languages

S. No	Course Code	Name of the Course
65	171CS4T10	Computer Organization
66	171EC3L01	Electronic Devices and Circuits Lab
67	171EC3T01	Electronic Devices and Circuits
68	171EC3T02	Switching Theory and Logic Design
69	171EC3T03	Signals and Systems
70	171EC3T04	Random Variables and Stochastic Processes
71	171EC4L02	Electronic Circuit Analysis Lab
72	171EC4L03	Analog Communications Lab
73	171EC4T05	Electronic Circuit Analysis
74	171EC4T06	Electromagnetic Waves and Transmission Lines
75	171EC4T07	Analog Communications
76	171EC4T08	Pulse and Digital Circuits
77	171EE2T01	Electrical Circuit Analysis - I
78	171EE3L01	Electrical Circuits Lab
79	171EE3T02	Electrical Circuit Analysis - II
80	171EE3T03	Electrical Machines – I
81	171EE3T04	Basic Electronics Devices and Circuits
82	171EE3T05	Electromagnetic Fields
83	171EE4L02	Electronic Devices and Circuits Lab
84	171EE4L03	Electrical Machines - I Lab
85	171EE4T06	Electrical Measurements
86	171EE4T07	Electrical Machines - II
87	171EE4T08	Control Systems
88	171EE4T09	Power Systems – I
89	171ES1L01	Computer Programming Lab
90	171ES1T01	Computer Programming
91	171ES1T02	Engineering Mechanics
92	171ES1T03	Engineering Drawing
93	171ES2L02	Engineering Workshop and IT Workshop
94	171ES2T02	Engineering Mechanics
95	171ES2T03	Engineering Drawing
96	171ES2T04	Basic Mechanical Engineering
97	171ES2T05	Basic Electrical and Electronics Engineering
98	171ES2T06	Electrical and Mechanical Technology
99	171ES2T07	Elements of Mechanical Engineering
100	171ES2T08	Theory of Machines

S. No	Course Code	Name of the Course
101	171ES3L03	Strength of Materials Lab
102	171ES3L04	Thermal and Hydro Prime Movers Lab
103	171ES3L05	Basic Electrical And Electronics Engg. Lab
104	171ES3L06	Mechanics of Solids and Metallurgy Lab
105	171ES3L08	Networks and Electrical Technology Lab
106	171ES3L09	Basic Engineering Lab
107	171ES3L10	Geology and Surveying Lab
108	171ES3L11	Surveying and Leveling Lab
109	171ES3L12	Electrical and Electronics Lab
110	171ES3L13	Basic Mechanical Engineering Lab.
111	171ES3T05	Basic Electrical and Electronics Engineering
112	171ES3T09	Strength of Materials - I
113	171ES3T10	Thermal and Hydro Prime Movers
114	171ES3T11	Mechanics of Solids
115	171ES3T12	Thermodynamics
116	171ES3T13	Metallurgy and Materials Science
117	171ES3T14	Fluid Mechanics and Hydraulic Machinery
118	171ES3T15	Network Analysis
119	171ES3T16	Materials Science and Engineering
120	171ES3T17	General Geology
121	171ES3T18	Surveying and Offshore Structures
122	171ES3T19	Properties and Strength of Materials
123	171ES3T20	Electrical and Electronics Engineering
124	171ES3T21	Surveying and Leveling
125	171ES3T22	Material Engineering
126	171ES3T23	Digital Logic Design
127	171ES4L07	Fluid mechanics and Hydraulic Machinery Lab
128	171ES4L14	Fluid Mechanics and Open Channel Hydraulics Lab
129	171ES4L15	Machine Drawing and Computer Graphics Lab
130	171ES4T24	Digital Circuits and Logic Design
131	171ES4T25	Fluid Mechanics and Open Channel Hydraulics
132	171ES4T27	Kinematics Of Machinery
133	171ES4T28	Linear Control Systems
134	171HS1L01	English Communication Skills Lab - I
135	171HS1T01	English - I

S. No	Course Code	Name of the Course
136	171HS1T02	Environmental Studies
137	171HS2L02	English Communication Skills Lab - II
138	171HS2T02	Environmental Studies
139	171HS2T03	English - II
140	171HS3A09	Professional Ethics and Human Values
141	171HS3A10	Employability Skills - I
142	171HS3T04	Managerial Economics and Financial Analysis
143	171HS4A04	Managerial Economics and Financial Analysis
144	171HS4A08	IPR and Patents
145	171HS4A11	Employability Skills - II
146	171HS4T05	Management Science
147	171HS4T08	Intellectual Property rights and patents
148	171IT4T01	Language Processors
149	171ME3T01	Computer Aided Engineering Drawing Practice
150	171ME4L01	Production Technology Lab
151	171ME4T02	Kinematics of Machinery
152	171ME4T03	Thermal Engineering -I
153	171ME4T04	Production Technology
154	171ME4T05	Design of Machine members-I
155	171ME4T06	Industrial Engineering and Management
156	171ME4T07	Machine Drawing
157	171MI3T01	Introduction To Mining Technology
158	171MI3T02	Basic Mechanical Engineering For Mines
159	171MI3T03	Mining Geology-I
160	171MI4L01	Geology Lab
161	171MI4L02	Computer Application In Mining Lab
162	171MI4T04	Computer Application In Mining
163	171MI4T05	Mining Geology –II
164	171MI4T06	Mine Surveying – I
165	171MI4T07	Surface Mining
166	171MI4T08	Fundamentals Of Rock Mechanics
167	171PT3T01	Chemical Process Calculations
168	171PT4L01	Momentum Transfer Lab
169	171PT4L02	Process Heat Transfer Lab
170	171PT4T02	Momentum Transfer

S. No	Course Code	Name of the Course
171	171PT4T03	Petroleum Geology
172	171PT4T04	Thermodynamics for Petroleum Engineers
173	171PT4T05	Process Heat Transfer
174	171SO3C01	Comprehensive Viva-Voce
175	171SO3R01	Seminar - I
176	171SO4P01	Project Work Part- - II
177	171SO4R02	Seminar - II
178	172C04P01	Project Work Part- - II
179	172CO1E01	Software Engineering
180	172CO1E02	Advanced Operating Systems
181	172CO1E03	Compiler Design
182	172CO1E04	Human Computer Interaction
183	172CO1L01	Advanced Data Structures and Database Management Systems Lab
184	172CO1T01	Advanced Data Structures and Algorithm Analysis
185	172CO1T02	Database Management System
186	172CO1T03	Computer Organization and Architecture
187	172CO1T04	Mathematical Foundations Of Computer Science
188	172CO1T05	Computer Networks
189	172CO2E05	Machine Learning
190	172CO2E06	Digital Image Processing
191	172CO2E07	Mobile Computing
192	172CO2E08	Cloud Computing
193	172CO2E09	Internet Of Things
194	172CO2E10	Bio Informatics
195	172CO2L02	Advanced Unix Programming and Hadoop and Bigdata Lab
196	172CO2T06	Cyber Security
197	172CO2T07	Data Ware Housing and Data Mining
198	172CO2T08	Big Data Analytics
199	172CO2T09	Advanced Unix Programming
200	172CO3C01	Comprehensive Viva-Voce
201	172CO3R01	Seminar - I
202	172CO4R02	Seminar - II
203	172EM1E01	Cyber Security
204	172EM1E02	Sensors and Actuators
205	172EM1E03	Soft Computing Techniques

S. No	Course Code	Name of the Course
206	172EM1E04	Embedded Computing
207	172EM1E05	Device Drivers
208	172EM1E06	Network Security and Cryptography
209	172EM1E07	Advanced Computer Architecture
210	172EM1L01	Embedded Systems Lab
211	172EM1T01	Digital System Design
212	172EM1T02	Embedded System Design
213	172EM1T03	Real Time Operating Systems
214	172EM1T04	Embedded - C
215	172EM2E08	System on Chip Design
216	172EM2E09	MEMS Design
217	172EM2E10	Internet Protocols
218	172EM2E11	Wireless LANs and PANs
219	172EM2E12	Multimedia and Signal Coding
220	172EM2L02	Embedded Real Time Systems Lab
221	172EM2T05	Hardware Software Co - Design
222	172EM2T06	DSP Processors and Architectures
223	172EM2T07	Embedded Networking
224	172EM2T08	CPLD / FPGA Architectures and Applications
225	172EM3C01	Comprehensive Viva-Voce
226	172EM3R01	Seminar - I
227	172EM4P01	Project Work Part- - II
228	172EM4R02	Seminar - II
229	172PD1E01	Modern Control Theory
230	172PD1E02	Power Quality
231	172PD1E03	Optimization Techniques
232	172PD1E04	Energy Auditing, Conservation and Management
233	172PD1E05	Artificial Intelligence Techniques
234	172PD1E06	HVDC Transmission
235	172PD1L01	Simulation Lab
236	172PD1T01	Electrical Machine Modeling and Analysis
237	172PD1T02	Analysis of Power Electronic Converters
238	172PD1T03	Power Electronic Control of DC Drives
239	172PD1T04	Flexible AC Transmission Systems
240	172PD2E07	Renewable Energy Systems
241	172PD2E08	Reactive Power Compensation and Management

S. No	Course Code	Name of the Course
242	172PD2E09	Electrical Distribution System
243	172PD2E10	Smart Grid Technologies
244	172PD2E11	Special Machines
245	172PD2E12	Programmable Logic Controllers and Applications
246	172PD2L02	Power Converters and Drives Lab
247	172PD2T05	Switched Mode Power Conversion
248	172PD2T06	Power Electronics Control of AC Drives
249	172PD2T07	Digital Controllers
250	172PD2T08	Custom Power Devices
251	172PD3C01	Comprehensive Viva-Voce
252	172PD3P01	Project Work Part – I
253	172PD3R01	Seminar – I
254	172PD4P01	Project Work Part- - II
255	172PD4R02	Seminar – II
256	172PE1L01	Advanced Numerical Methods and Applied Statistics (MATLAB Based) Lab
257	172PE1T0	Non-PE Stream: Petroleum Drilling and Production Engineering
258	172PE1T01	Advanced Numerical Methods and Applied Statistics
259	172PE1T02	Transportation of Oil and Gas
260	172PE1T03	Advanced EOR Techniques for field developments
261	172PE1T04	Project Management
262	172PE1T05	PE Stream: Offshore Drilling
263	172PE1T06	Non-PE Stream: Fundamentals of Petroleum Geology and Reservoir Engineering
264	172PE1T07	Reservoir stimulation
265	172PE1T08	Non-PE Stream: Petroleum Drilling and Production Engineering
266	172PE2E01	Practical Reservoir Modeling and Simulation
267	172PE2E02	Optimization of Oil and Gas Production
268	172PE2E03	Flow Assurance
269	172PE2E04	Process Safety and Environmental Aspects in Petroleum Industry
270	172PE2E05	Deep Water Technologies
271	172PE2E06	Characterization of Petroleum Oils
272	172PE2L02	Reservoir Simulation Lab
273	172PE2T09	Advanced Natural Gas Engineering
274	172PE2T10	Artificial Lift Techniques

S. No	Course Code	Name of the Course
275	172PE2T11	Operational Aspects of Well Testing
276	172PE2T12	Integrated Reservoir Management
277	172PE3C01	Comprehensive Viva-Voce
278	172PE3R01	Seminar - I
279	172PE4R01	Project Work Part- II
280	172PE4R02	Seminar - II
281	172SE1E01	Experimental Stress Analysis
282	172SE1E02	Sub Structure Design
283	172SE1E03	Structural Optimization
284	172SE1E04	Repair and Rehabilitation of Structures
285	172SE1E05	Analysis and Design of Tall Building
286	172SE1E06	Plastic Analysis and Design
287	172SE1L01	Advanced Structural Engineering Laboratory
288	172SE1T01	Advanced Mathematics
289	172SE1T02	Theory of Elasticity
290	172SE1T03	Matrix Analysis of Structures
291	172SE1T04	Structural Dynamics
292	172SE2E07	Prestressed Concrete
293	172SE2E08	Mechanics of Composite Materials
294	172SE2E09	Fracture Mechanics
295	172SE2E10	Industrial Structures
296	172SE2E11	Bridge Engineering
297	172SE2E12	Earth Retaining Structures
298	172SE2L02	CAD Laboratory
299	172SE2T05	Finite Element Method
300	172SE2T06	Earthquake Resistant Design
301	172SE2T07	Stability of Structures
302	172SE2T08	Theory of Plates & Shells
303	172SE3C01	Comprehensive Viva - Voce
304	172SE3R01	Seminar-I
305	172SE4P01	Project Work Part- - II
306	172SE4R02	Seminar -II
307	172SO1E01	Web Technologies
308	172SO1E02	Middleware Technologies
309	172SO1E03	Mobile Computing
310	172SO1E04	E-Commerce
311	172SO1E05	Scripting Languages

S. No	Course Code	Name of the Course
312	172SO1E06	ERP and Supply Chain Management
313	172SO1L01	Web Technologies and Big Data Analytics Lab
314	172SO1T01	Software Requirements And Estimation
315	172SO1T02	Software Metrics And Reuse
316	172SO1T03	Software Project And Process Management
317	172SO1T04	Big Data Analytics
318	172SO2E07	Secure Software Engineering
319	172SO2E08	Systems Engineering
320	172SO2E09	Soft Computing
321	172SO2E10	User Interface Design
322	172SO2L02	Software Testing and Design Patterns Lab
323	172SO2T05	Software Architecture And Design Patterns
324	172SO2T06	Software Quality Assurance And Testing
325	172SO2T07	Service Oriented Architectures
326	172TE1E01	Gas Dynamics
327	172TE1E02	Refrigeration and Cryogenics
328	172TE1E03	Renewable Energy Technologies
329	172TE1E04	Theory and Technologies of Fuel Cells
330	172TE1E05	Advanced IC Engines
331	172TE1E06	Solar Energy Technology
332	172TE1E07	Turbo Machines
333	172TE1E08	Alternative Fuels Technologies
334	172TE1L01	Thermal Engineering Lab
335	172TE1T01	Optimization Techniques and Applications
336	172TE1T02	Advanced Thermodynamics
337	172TE1T03	Advanced Heat and Mass Transfer
338	172TE1T04	Advanced Fluid Mechanics
339	172TE2E09	Materials Technology
340	172TE2E10	Convective Heat Transfer
341	172TE2E11	Thermal and Nuclear Power Plants
342	172TE2E12	Advanced Automobile Engg
343	172TE2E13	Thermal Measurements and Process Controls
344	172TE2E14	Cryogenic Engineering
345	172TE2E15	Jet Propulsion and Rocketry
346	172TE2E16	Equipment Design for Thermal Systems
347	172TE2L02	Thermal Systems Design Lab

S. No	Course Code	Name of the Course
348	172TE2T05	Fuels, Combustion and Environment
349	172TE2T06	Energy Management
350	172TE2T07	Computational Fluid Dynamics
351	172TE2T08	Finite Element Method
352	172TE3C01	Comprehensive Viva-Voce
353	172TE3R01	Seminar – I
354	172TE4C02	Seminar – II
355	172TE4P01	Project Work Part - II
356	172VD1E01	Digital Design using HDL
357	172VD1E02	CPLD / FPGA Architectures and Applications
358	172VD1E03	Hardware Software Co - Design
359	172VD1L01	Front End VLSI Design - Lab
360	172VD1T01	VLSI Technology and Design
361	172VD1T02	CMOS Analog IC Design
362	172VD1T03	CMOS Digital IC Design
363	172VD2E04	CAD for VLSI
364	172VD2E05	VLSI Signal Processing
365	172VD2E06	Optimization Techniques in VLSI Design
366	172VD2E07	Semiconductor Memory Design and Testing
367	172VD2L02	Back end VLSI Design Laboratory
368	172VD2T04	CMOS Mixed Signal Circuit Design
369	172VD2T05	Embedded System Design
370	172VD2T06	Low Power VLSI Design
371	172VD2T07	Design For Testability
372	172VD3C01	Comprehensive Viva-Voce
373	172VD3R01	Seminar – I
374	172VD4P01	Project Work Part - II
375	172VD4R02	Seminar – II
376	173MC1L01	English Language Communication Skills Lab
377	173MC1L02	C Programming Lab
378	173MC1L03	Statistical Programming With R Lab
379	173MC1L04	Oops Through Java Lab
380	173MC1L05	Data Structures Lab
381	173MC1L06	Operating System & Computer Graphics Lab
382	173MC1T01	C Programming And Data Structures
383	173MC1T02	Computer Organization

S. No	Course Code	Name of the Course
384	173MC1T03	Discrete Mathematical Structures and Graph Theory
385	173MC1T04	Statistical Programming With R
386	173MC1T05	Accounting And Financial Management
387	173MC1T06	Oops Through Java
388	173MC1T07	Operating Systems
389	173MC1T08	Software Engineering
390	173MC1T09	Optimization Techniques
391	173MC1T10	Computer Graphics
392	173MC2L04	Oops Through Java Lab
393	173MC2L05	Data Structures Lab
394	173MC2L06	Operating System & Computer Graphics Lab
395	173MC2T06	Oops Through Java
396	173MC2T07	Operating Systems
397	173MC2T08	Software Engineering
398	173MC2T09	Optimization Techniques
399	173MC2T10	Computer Graphics
400	173MC3L07	Data Base Management Systems Lab
401	173MC3L08	Unix Programming Lab
402	173MC3L09	Computer Networks Lab
403	173MC3T11	Data Base Management Systems
404	173MC3T12	Computer Networks
405	173MC3T13	Unix Programming
406	173MC3T14	Management Information System
407	173MC3T15	Design And Analysis Of Algorithms
408	173MC4E01	Mobile Computing
409	173MC4E02	Human Computer Interaction
410	173MC4E03	Cloud Computing
411	173MC4E04	Software Project Management
412	173MC4E05	Artificial Intelligence
413	173MC4E06	Embedded Systems
414	173MC4L10	Advanced Java & Web Technologies Lab
415	173MC4L11	Data Warehousing And Mining Lab
416	173MC4L12	Object Oriented Analysis And Design Lab
417	173MC4T16	Object Oriented Analysis And Design
418	173MC4T17	Advanced Java & Web Technologies
419	173MC4T18	Data Warehousing And Mining

S. No	Course Code	Name of the Course
420	174FI3E01	Security Analysis & Portfolio Management
421	174FI3E02	Banking & Insurance Management
422	174FI3E03	Advance Management Accounting
423	174FI3E04	Strategic Financial Management
424	174FI4E01	Financial Markets & Services
425	174FI4E02	Global Financial Management
426	174FI4E03	Risk Management
427	174FI4E04	Tax Management
428	174HR3E01	Leadership Management
429	174HR3E02	Compensation & Reward Management
430	174HR3E03	Performance Management
431	174HR3E04	Strategic Human Resource Management
432	174HR4E01	Organizational Development & Change Management
433	174HR4E02	Global Human Resource Management
434	174HR4E03	Labor Welfare & Legislation
435	174HR4E04	Management of Industrial Relations
436	174MA3E01	Consumer Behavior
437	174MA3E02	Retail Management
438	174MA3E03	Customer Relationship Management
439	174MA3E04	Strategic Marketing
440	174MA4E01	Services Marketing
441	174MA4E02	Promotional Distribution Management
442	174MA4E03	Global Marketing Management
443	174MA4E04	Supply Chain Management
444	174MB1L01	IT - LAB
445	174MB1T01	Principles of Management
446	174MB1T02	Managerial Economics
447	174MB1T03	Accounting for Managers
448	174MB1T04	Managerial Communication & Soft Skills
449	174MB1T05	Business Environment
450	174MB1T06	Quantitative Analysis for Business Decisions
451	174MB2P01	Minor Project
452	174MB2T07	Financial Management
453	174MB2T08	Human Resource Management
454	174MB2T09	Marketing Management
455	174MB2T10	Production & Operations Management

S. No	Course Code	Name of the Course
456	174MB2T11	Business Research Methods
457	174MB2T12	Organizational Behavior
458	174MB3T13	Strategic Management
459	174MB3T14	Legal Aspects of Business
460	174MB3T15	Business Ethics & Corporate Governance
461	174MB4P02	Major Project
462	174MB4T16	Logistic & Supply Chain Management
463	174MB4T17	Entrepreneurship Development
464	174SY3E01	E – Business+A770
465	174SY3E02	Relational Database Management Systems
466	174SY3E03	Web Designing
467	174SY3E04	System Analysis & Design
468	174SY4E01	Business Intelligence
469	174SY4E02	Enterprise Resource Planning
470	174SY4E03	Cyber Laws & Security
471	174SY4E04	Information Systems Audit
472	175IM1T01	English Language – I
473	175IM1T02	Business Mathematics and Statistics
474	175IM1T03	Fundamentals of Business Organization
475	175IM1T04	Financial Accounting – I
476	175IM1T05	Fundamentals of Computers
477	175IM2T06	English Language – II
478	175IM2T07	Business Environment
479	175IM2T08	Managerial Economics
480	175IM2T09	Financial Accounting – II
481	175IM2T10	Organizational Communications
482	175IM3T11	Principles of Management
483	175IM3T12	Cost Accounting
484	175IM3T13	Banking Theory and Practice
485	175IM3T14	Business Law
486	175IM3T15	Entrepreneurship Development
487	175IM4T16	Organizational Behavior
488	175IM4T17	Management Accounting
489	175IM4T18	Company Law
490	175IM4T19	Elements of Direct and Indirect Taxes
491	175IM4T20	Management Information Systems
492	191BS1T01	Differential Equations and Linear Algebra

S. No	Course Code	Name of the Course
493	191BS1T02	Engineering Physics
494	191BS1T03	Applied Physics
495	191BS2T05	Partial Differentiation and Vector Calculus
496	191BS2T06	Chemistry of Materials
497	191BS2T07	Applied Physics
498	191BS2T08	Transform Techniques
499	191BS2T09	Engineering Chemistry
500	191BS2T10	Numerical Methods and Complex Variables
501	191BS3T11	Integral Transforms and applications of pde
502	191BS3T12	Transform Techniques
503	191BS3T13	Numerical Methods and Complex Variables
504	191BS3T14	Discrete Mathematics
505	191BS3T15	Numerical Methods and Integral Transforms
506	191BS4T16	Numerical Methods and Statistical Techniques
507	191BS4T17	Numerical Methods and Complex variables
508	191BS4T18	Probability & Statistics
509	191BS4T19	Complex Variables and Statistical Methods
510	191HS1T01	Communicative English
511	MC1651	Big Data Analytics
512	MC1652	Network Programming
513	MC1653	Python Programming
514	MC1654	Cyber Security
515	MC1655	Computer Forensics
516	MC1656	E-Commerce
517	MC1657	Internet Of Things
518	MC1658	Multimedia Application Development
519	MC1659	Software Testing Methodologies
520	MC165A	Big Data Analytics Lab
521	MC165B	Network Programming Lab
522	MC165C	Python Programming Lab
523	MC165D	Project Work Part – I
524	PT42053C	Mobile Adhoc and Sensor Networks
525	PT42053D	Pattern Recognition
526	QT4104A	Artificial Neural Network and Fuzzy Logic
527	QT4104B	Network Security and Cryptography
528	R1631011	Management Science

S. No	Course Code	Name of the Course
529	R1631012	Engineering Geology
530	R1631013	Structural Analysis -II
531	R1631014	Design and Drawing of Reinforced Concrete Structures
532	R1631015	Transportation Engineering - II
533	R1631016	Concrete Technology Lab
534	R1631017	Geology Lab
535	R1631018	Transportation Engineering Lab
536	R1631021	Power Systems-II
537	R1631022	Renewable Energy Sources
538	R1631023	Signals and Systems
539	R1631024	Pulse and Digital Circuits
540	R1631025	Power Electronics
541	R1631026	Electrical Machines-II Laboratory
542	R1631027	Control Systems Laboratory
543	R1631028	Electrical Measurements Laboratory
544	R1631029	IPR and Patents
545	R1631031	Dynamics of Machinery
546	R1631032	Metal Cutting and Machine Tools
547	R1631033	Design of Machine members-II
548	R1631034	Operations Research
549	R1631035	Thermal Engineering -II
550	R1631036	Theory of Machines Lab
551	R1631037	Machine Tools Lab
552	R1631038	Thermal Engineering Lab
553	R1631041	Computer Architecture and Organization
554	R1631042	Linear I C Applications
555	R1631043	Digital I C Applications
556	R1631044	Digital Communications
557	R1631045	Antenna and Wave Propagation
558	R1631046	Pulse and Digital Circuits Lab
559	R1631047	Linear I C Applications Lab
560	R1631048	Digital I C Applications Lab
561	R1631049	Professional Ethics & Human Values
562	R1631051	Compiler Design
563	R1631052	Unix and Shell Programming
564	R1631053	Object Oriented Analysis and Design using UML

S. No	Course Code	Name of the Course
565	R1631054	Database Management Systems
566	R1631055	Operating Systems
567	R1631056	Unified Modeling Lab
568	R1631057	Operating System and Linux Programming Lab
569	R1631058	Database Management System Lab
570	R1631121	Human Computer Interaction
571	R1631122	Advanced Java Programming
572	R1631123	Advanced Java Programming Lab
573	R1631124	Unix and Operating Systems Lab
574	R1631125	Database Management System Lab
575	R1631261	Underground Coal Mining Technology
576	R1631262	Mine Environment Engineering – I
577	R1631263	Electrical Equipment in Mines
578	R1631264	Mine Surveying– II
579	R1631265	Mining Machinery and Mechanization – I
580	R1631266	Advanced English Communication Skills Lab
581	R1631267	Mine Surveying Lab
582	R1631268	Mechanical Engineering Lab
583	R1631269	Mine Field visit(Mandatory)
584	R1631271	Process Dynamics and Control
585	R1631272	Process Instrumentation
586	R1631273	Well Logging and Formation Evaluation
587	R1631274	Drilling Technology
588	R1631275	Mathematical Methods Lab
589	R1631276	Instrumentation Process Dynamics and Control Lab
590	R1631277	Drilling Fluids Lab
591	R1631278	Industrial Visits
592	R1631279	Mini Project-I
593	R1631351	Thermodynamics and Refrigeration systems
594	R1631352	Soil and Water Conservation Engineering
595	R1631353	Agricultural Process Engineering
596	R1631354	Engineering Properties of Biological Materials and Food Quality
597	R1631355	Managerial Economics and Financial Analysis
598	R1631356	Agricultural Process Engineering Lab

S. No	Course Code	Name of the Course
599	R1631357	Advanced English Communications Skills Lab
600	R1631358	Field Operation and Maintenance of Tractors Lab - 1
601	R163201	Data Base Management Systems
602	R1632011	Design and Drawing of Steel Structures
603	R1632012	Geotechnical Engineering - I
604	R1632013	Environmental Engineering -I
605	R1632014	Water Resource Engineering -I
606	R1632015D	Waste Water Management
607	R1632017	Environmental Engineering Lab
608	R1632018	Computer Aided Engineering Lab
609	R163201A	Enterprenuership
610	R163201B	Alternative Energy Sources
611	R163201C	Geotechnical Engineering Lab
612	R163201D	Waste Water Management
613	R1632021	Power Electronic Controllers and Drives
614	R1632022	Power System Analysis
615	R1632023	Micro Processors and Micro controllers
616	R1632024	Data Structures
617	R1632025D	Robotics
618	R1632026	Power Electronics Laboratory
619	R1632027	Micro Processors and Micro controllers Laboratory
620	R1632028	Data Structures Laboratory
621	R1632029	Professional Ethics and Human Values
622	R163202A	Unix and Shell Programming
623	R163202B	VLSI Design
624	R163202D	Robotics
625	R163202E	Neural Networks andFuzzy Logic
626	R163202F	Energy Audit and Conservationand Management
627	R1632031	Metrology
628	R1632032	Instrumentation and Control systems
629	R1632033	Refrigeration and Air Conditioning
630	R1632034	Heat Transfer
631	R1632035A	Entrepreneurship
632	R1632035C	Industrial Robotics
633	R1632036	Heat Transfer Lab

S. No	Course Code	Name of the Course
634	R1632037	Metrology and Instrumentation Lab
635	R1632038	Computational Fluid Dynamics Lab
636	R163203A	Enterprenuership
637	R163203B	Computer Graphics
638	R163203C	Industrial Robotics
639	R163203D	Green Engineering Systems
640	R1632041	Micro Processors and Micro Controllers
641	R1632042	Micro Wave Engineering
642	R1632043	VLSI Design
643	R1632044	Digital Signal Processing
644	R1632046	Micro Processors and Micro Controllers Lab
645	R1632047	VLSI Lab
646	R1632048	Digital Communications Lab
647	R1632049	IPR and Patents
648	R163204A	OOPs through Java
649	R163204B	Data Mining
650	R163204C	Industrial robotics
651	R163204D	Bio-Medical Engineering
652	R163204E	Power Electronics
653	R163204F	Artificial Neural Networks
654	R1632051	Computer Networks
655	R1632052	Data Warehousing and Mining
656	R1632053	Design and Analysis of Algorithms
657	R1632054	Software Testing Methodologies
658	R1632055D	Digital Signal Processing
659	R1632055E	Embbded Systems
660	R1632056	Network Programming Lab
661	R1632057	Software Testing Lab
662	R1632058	Data Warehousing and Mining Lab
663	R163205A	Artificial Intelligence
664	R163205B	Internet of Things
665	R163205C	Cyber Security
666	R163205D	Digital Signal Processing
667	R163205E	Embedded Systems
668	R163205F	Robotics
669	R1632121	Data Mining
670	R1632122	Web Technologies

S. No	Course Code	Name of the Course
671	R1632123A	Social Networks and Semantic Web
672	R1632123B	Operations Research
673	R1632124	Web Technologies Lab
674	R1632125	Software Testing Lab
675	R1632126	Data Mining Lab
676	R1632261	Mine Systems Engineering
677	R1632262	Mineral Engineering and Fuel Technology
678	R1632263	Mine Environmental Engineering – II
679	R1632264	Mining Machinery and Mechanization – II
680	R1632265A	Quality and Reliability Engineering
681	R1632265B	Rock Excavation Engineering
682	R1632266	Mineral Engineering Lab
683	R1632267	Environmental Engineering Lab
684	R1632268	Mine Planning and Design Lab
685	R1632269	Mine Safety Engineering
686	R1632271	Well Completions Testing and Servicing
687	R1632272	Petroleum Production Engineering
688	R1632273	Petroleum Reservoir Engineering-I
689	R1632274	Petroleum Refinery and Petrochemical Engineering
690	R1632276	Drilling Simulation Lab
691	R1632277	Petroleum Analysis Lab
692	R1632278	Petroleum Reservoir Engineering Lab
693	R1632279	Summer Internship
694	R163227A	Electronoic instrument
695	R163227B	Fundamentals of Liquefied Natural Gas
696	R163227C	Big data analytics
697	R163227D	Alternative energy sources for automobiles
698	R163227E	Computational fluid Dynamics
699	R1632280	Mini Project-II
700	R1632351	Irrigation and Drainage Engineering
701	R1632352	Farm Machinery and Equipment - I
702	R1632353	Design of Soil Water Conservation and Farm Structures
703	R1632354	Dairy and Food Engineering
704	R1632356	Farm Machinery Lab - 1
705	R1632357	Field Operation and Maintenance of Tractors Lab - 2

S. No	Course Code	Name of the Course
706	R1632358	Soil and Water Engineering Lab
707	R163235A	Operations Research
708	R163235B	Digital Control Systems
709	R163235C	Robotics& Automation
710	R163235D	Industrial Pollution Control Engineering
711	R163235E	Finite Element Method
712	R163235F	Water Resources System Planning and Management
713	RT41011	Environmental Engineering – II
714	RT41012	Prestressed Concrete
715	RT41013	Construction Technology and Management
716	RT41014	Water Resources Engineering–II
717	RT41015	Remote Sensing and GIS Applications
718	RT41016	Ground Improvement Techniques
719	RT41016A	Energy Mangement
720	RT41016B	Fundamentals Of Petroleum Industry
721	RT41016C	Offshore enginnering
722	RT41016D	pipeline enginnering
723	RT41016F	Green Fuel Technologies
724	RT41017	Air Pollution and Control
725	RT41018	Matrix methods of Structural Analysis
726	RT41019	Urban Hydrology
727	RT4101A	Advanced Surveying
728	RT4101B	Interior Designs and Decorations
729	RT4101L	Environmental Engineering Lab
730	RT4101M	GIS and CAD Lab
731	RT41021	Renewable Energy Sources and Systems
732	RT41022	HVAC and DC Transmission
733	RT41023	Power System Operation And Control
734	RT41024	Energy Audit and Conservation& Management
735	RT41025	Instrumentation
736	RT41026	Non Conventional Sources of Energy
737	RT41027	Optimization Techniques
738	RT41028	VLSI Design
739	RT41029	Electrical Distributions Systems
740	RT4102L	Microprocessors and Microcontrollers Lab
741	RT4102M	Electrical Simulation Lab

S. No	Course Code	Name of the Course
742	RT4102N	Power Systems Lab
743	RT41030	Optimization Techniques
744	RT41031	Automobile Engineering
745	RT41032	CAD/CAM
746	RT41033	finite Element Methods
747	RT41034	Unconventional Machining Process
748	RT41035	MEMS
749	RT41036	Nano technology
750	RT41037	Material Characterization techniques
751	RT41038	Design for Manufacture
752	RT41039	Automation and Manufacturing
753	RT4103A	Industrial hydraulics and Pneumatics
754	RT4103L	Simulation Lab
755	RT4103M	Design/Fabrication project
756	RT41041	VLSI Design
757	RT41042	Computer Networks
758	RT41043	Digital Image Processing
759	RT41044	Computer Architecture and Organization
760	RT41045	Electronic Switching Systems
761	RT41046	Analog IC Design
762	RT41047	Object Oriented Programming and O S
763	RT41048	Radar Systems
764	RT41049	Advanced Computer Architecture
765	RT4104A	Optical Communication
766	RT4104B	Digital IC Design
767	RT4104C	Speech Processing
768	RT4104L	VLSI Lab
769	RT4104M	Microwave Engineering Lab
770	RT41051	Cryptography and Network Security
771	RT41052	UML and Design Patterns
772	RT41053	Mobile Computing
773	RT41054	Software Testing Methodologies
774	RT41055	Simulation Modeling
775	RT41056	Information Retrieval Systems
776	RT41057	Artificial Intelligence
777	RT41058	Multimedia Computing
778	RT41059	High Performance Computing

S. No	Course Code	Name of the Course
779	RT4105A	Digital Forensics
780	RT4105B	Hadoop and Big Data
781	RT4105C	Software Project Management
782	RT4105D	Machine Learning
783	RT4105E	Advanced Databases
784	RT4105L	UML and Design Patterns Lab
785	RT4105M	Mobile Application Development Lab
786	RT4105N	Software Testing Lab
787	RT4105O	Hadoop and Bigdata Lab
788	RT41121	Embedded and Real Time Systems
789	RT41122	Computer Vision
790	RT4112L	UML and Design Patterns Lab
791	RT4112M	Mobile Application Development Lab
792	RT4112N	Hadoop and BigData Lab
793	RT4112O	Software Engineering Lab
794	RT41261	Mine Economics
795	RT41262	Computer Applications in Mining
796	RT41263	Rock Mechanics and Ground Control
797	RT41264	Mine Legislation and General Safety
798	RT41265	Industrial Robotics
799	RT41266	Environmental Impact Assessment
800	RT41267	Numerical Methods
801	RT41268	Industrial Management
802	RT4126L	Computer Applications in Mining Lab
803	RT4126M	Rock Mechanics and Ground Control Lab
804	RT4126N	Short Survey Camp (One Week)
805	RT41271	Integrated asset management
806	RT41272	Enhanced oil recovery techniques
807	RT41273	Hse and fe in petroleum industry
808	RT41274	petroleum reservoir engineering ii
809	RT41279	Coal bed methane engineering
810	RT4127L	Petroleum equipment design and simulation lab
811	RT4127M	Petroleum reservoir engineering lab
812	RT4127N	Presentation of sip report
813	RT41310	Computational Fluid Dynamics
814	RT41351	Micro irrigation engineering

S. No	Course Code	Name of the Course
815	RT41352	Farm machinery and equipments II
816	RT41353	Post harvest engineering for horticulture produce
817	RT41354	Mechanical measurements and instrumentation
818	RT41355	Seed processing and storage engineering
819	RT41356	Managerial economics & financial Analysis
820	RT41357	Food processing plant design and layout
821	RT41358	Watershed management
822	RT41359	Food packaging technology
823	RT4135L	Field operation and maintenance of tractors and farm machinery lab
824	RT4135M	Dairy and food engineering lab
825	RT42011	Estimating, Specifications and Contracts
826	RT42012A	Engineering with Geo-synthetics
827	RT42012B	Environmental Impact Assessment and Management
828	RT42012C	Advanced Structural Engineering
829	RT42012D	Ground Water Development and Management
830	RT42012E	Traffic Engineering
831	RT42012F	Infrastructure Management
832	RT42013A	Advanced foundation Engineering
833	RT42013B	Solid waste Management
834	RT42013C	Earthquake Resistant Design
835	RT42013D	Water Shed Management
836	RT42013E	Pavement Analysis and Design
837	RT42013F	Green Buildings
838	RT42014A	Elective-IV: Soil Dynamics and Machine Foundations
839	RT42014B	Environmental and Industrial Hygiene
840	RT42014C	Repair and Rehabilitation of Structures
841	RT42014D	Water Resources System Planning and Management
842	RT42014E	Urban Transportation Planning Safety Engineering
843	RT42014G	Bridge Engineering
844	RT42015	Project Work
845	RT42021	Digital Control Systems
846	RT42022A	Advanced Control Systems
847	RT42022B	Extra High Voltage Transmission

S. No	Course Code	Name of the Course
848	RT42022C	Special Electrical Machines
849	RT42023A	Electric Power Quality
850	RT42023B	Digital Signal Processing
851	RT42023C	FACTS: Flexible Alternating Current Transmission System
852	RT42024A	OOPS through JAVA
853	RT42024B	UNIX and Shell Programming
854	RT42024C	AI Techniques
855	RT42024D	Power System Reforms
856	RT42024E	Systems Engineering
857	RT42025	Project
858	RT42031	Production Planning and Control
859	RT42032	Green Engineering Systems
860	RT42033A	Experimental Stress Analysis
861	RT42033B	Mechatronics
862	RT42033C	Advanced Materials
863	RT42033D	Power Plant Engineering
864	RT42034A	Non Destructive Evaluation
865	RT42034B	Advanced Optimization techniques
866	RT42034C	Gas Dynamics and Jet Propulsion
867	RT42034D	Quality and Reliability Engineering
868	RT42035	Project Work
869	RT42041	Cellular Mobile Communication
870	RT42042	Electronic Measurements and Instrumentation
871	RT42043A	Satellite Communication
872	RT42043B	Mixed signal Design
873	RT42043C	Embedded systems
874	RT42043D	RF Circuit Design
875	RT42043E	Cloud Computing
876	RT42044A	Wireless Sensors and Networks
877	RT42044B	System on Chip
878	RT42044C	Low Power IC Design
879	RT42044D	Bio-Medical Instrumentation
880	RT42044E	EMI/EMC
881	RT42045	Project and Seminar
882	RT42051	Distributed Systems
883	RT42052	Management Science

S. No	Course Code	Name of the Course
884	RT42053A	Human Computer Interaction
885	RT42053B	Advanced Operating Systems
886	RT42053C	Mobile Adhoc and Sensor Networks
887	RT42053D	Pattern Recognition
888	RT42053E	Digital Image Processing
889	RT42053F	Micro processors and Multi Core Systems
890	RT42055	PROJECT
891	RT42121	Mathematical Opimization
892	RT42122	Project
893	RT42262A	Deep Sea Mining
894	RT42262B	Mine Construction
895	RT42262C	Tunneling Engineering
896	RT42263A	Planning of Under Ground Metal Mining Project
897	RT42263B	Project
898	RT42263C	Planning of Surface Mining Projects
899	RT42264A	Maintenance & Reliability Engineering
900	RT42264B	Rock Excavation Engineering
901	RT42264C	Mine Health and Safety Engineering
902	RT42265	Project
903	RT42271	Petroleum economics and regulations and policies
904	RT42272A	Reservoir modeling and simulation
905	RT42272B	Horizontal well technology
906	RT42272C	Lng-processes and transportation and storage
907	RT42273A	Reservoir stimulation
908	RT42273B	Subsea engineering
909	RT42273C	Fundamentals of multiphase flow
910	RT42274A	Natural gas hydrates
911	RT42274B	Advanced natural gas engineering
912	RT42274C	Petroleum biotechnology
913	RT42275	Project
914	RT42351	Design of agricultural machinery
915	RT42352	Agro industries and bi-product utilization
916	RT42353A	GIS and remote sensing
917	RT42353B	Human engineering and safety
918	RT42353C	Production technology of agricultural machinery

S. No	Course Code	Name of the Course
919	RT42354A	Minor irrigation and command area development
920	RT42354B	Hydraulic devices and control
921	RT42354C	Principles of entrepreneurship
922	RT42355	Project work

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