



E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS)

NAGAPATTINAM – 611 002. TAMILNADU, INDIA

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

(Accredited by NAAC with 'A' Grade and NBA)

Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

1.2.1 Percentage of new courses introduced of the total number of courses across all programmes offered during the last five years

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the list of New Courses introduced programme- wise during academic year-2021-2022 is given below

NEW COURSE LIST 2021-2022

S.NO	COURSE CODE	NAME OF THE COURSE
B.E Biomedical Engineering		
1.	1902BM501	Biomedical Equipment's
2.	1902BM502	Medical Optics
3.	1902BM503	Microprocessor and its Applications
4.	1902BM504	Biomedical Digital Signal Processing
5.	1902BM505	Bio Process Control
6.	1902BM551	Biomedical Digital Signal Processing Laboratory
7.	1902BM552	Biosensors and Transducers Laboratory
8.	1904BM553	Microprocessor and Its Applications Laboratory
9.	1904GE551	Life Skills: Aptitude – I
10.	1901MCX03	Essence of Indian Traditional Knowledge
11.	1903BM001	Bio MEMS
12.	1903BM002	Nanotechnology in Medicine
13.	1903BM003	Bio Signal Processing and Systems
14.	1903BM004	Nuclear Medicine
15.	1901BM601	Diagnostic and Therapeutic Equipment - I
16.	1902BM602	Analog and Digital Communication
17.	1902BM603	Biomaterials
18.	1902BM651	Diagnostic and Therapeutic Equipment Laboratory
19.	1902BM652	Analog and Digital Communication Laboratory
20.	1904BM653	Mini Project
21.	1904BM654	Industrial Visit Presentation
22.	1904GE651	Life Skills: Aptitude – II
23.	1903BM005	Regulatory Requirements in Pharmaceutical Industries
24.	1903BM006	Bio Analytical Methods and Instruments
25.	1903BM007	Tele Health Technologies
26.	1903BM008	Medical Informatics
27.	1901HS001	Innovation and Entrepreneurship fundamentals
28.	1901HS003	Start up Entrepreneurship

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29.	1901HS004	Business Entrepreneurship
30.	1901HS002	Intellectual Property Rights
B.E Civil Engineering		
NIL		
B.E Computer Science Engineering		
31.	1903CS001	Mobile Computing
32.	1901MGX01	Total Quality Management
33.	1901MCX03	Essence of Indian Traditional Knowledge
34.	1902CS601	Compiler Design
35.	1901HS003	Startup Entrepreneurship
36.	1902CS651	Compiler Laboratory
37.	1904CS653	Software Prototype development Lab
B.E Electronics and Communication Engineering		
38.	1902EC501	Analog Communication
39.	1902EC502	Digital Signal Processing
40.	1902EC503	Transmission Lines and Wave guides
41.	1902EC504	Control Systems
42.	1902EC505	Computer Networks
43.	1902EC551	Digital Signal Processing Laboratory
44.	1902EC552	Computer Networks Laboratory
45.	1904GE551	Life Skills: Aptitude I
46.	1901MCX03	Essence of Indian Traditional Knowledge
47.	1902EC601	Antenna and Waveguide Propagation
48.	1902EC602	VLSI Design
49.	1902EC603	Digital Communication
50.	1902EC651	VLSI Design Laboratory
51.	1902EC652	Analog & Digital Communication Laboratory
52.	1904GE651	Life Skills: Aptitude II & GD
53.	1903EC004	Display Systems
54.	1901MGX01	Total Quality Management
55.	1901MGX02	Project Management and Finance
56.	1901MGX03	Operations Research
57.	1901MGX04	Principles of Management
58.	1903EC028	Medical Electronics
59.	1903EC029	High Speed Networks
60.	1903EC030	Generations of Communication Technology.
61.	1903EC031	Optical Networks
62.	1903EC025	Satellite Communication
63.	1903EC006	Radar and Navigation Aids
64.	1903EC007	Automotive Electronics
65.	1903EC008	Internet of Things

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66.	1903EC009	Biomedical Engineering
67.	1903EC010	Information Coding Techniques
B.E Electrical and Electronics Engineering		
68.	1902EE502	Linear Control Systems
69.	1902EE503	Power Electronics
70.	1901GE301	Basic Civil and Mechanical Engineering
71.	1903EE002	Electrical Machine Design
72.	1901MCX03	Essence of Indian Traditional Knowledge
73.	1902EE551	Control and Instrumentation Laboratory
74.	1904EE552	Mini Project – I
75.	1904GE551	Life Skills: Aptitude- I
76.	1902EE601	Solid State Drives
77.	1902EE602	Power System Analysis
78.	1902EE603	Microprocessors and Microcontrollers
79.	1903EE001	Special Electrical Machines
80.	1901MGX01	Total Quality Management
81.	-	Elective-IV (Open Elective-I)
82.	1902EE651	Power Electronics and Drives Laboratory
83.	1902EE652	Microprocessors and Microcontrollers Laboratory
84.	1904EE653	Mini Project-II
85.	1904GE651	Life Skills: Aptitude- II
86.	1904EE654	Industrial Visit Presentation
B.Tech. IT Information and Communication		
87.	1901GEX04	Biology for Engineers
88.	1902IT551	Web Programming Lab
89.	1904GE551	Life Skills: Aptitude I
90.	1904IT552	Startup Opportunities for IT Engineers
91.	1902MCX03	Essence of Indian Traditional Knowledge
92.	1901HS003	Startup Entrepreneurship
93.	1904GE651	Life Skills: Aptitude II& GD
94.	1904IT652	Industrial Visit Presentation
B.E Mechanical Engineering		
95.	1903ME001	Non - traditional machining processes
96.	1902MCX03	Essence of Indian Traditional Knowledge
97.	1904GE551	Life Skills: Aptitude I
98.	1903ME018	Gas dynamics and jet propulsion
99.	1901MGX03	Operations Research
100.	1903ME010	Industrial robotics
101.	1902ME651	Theory Of Machines Laboratory
102.	1904GE651	Life Skills: Aptitude – II&GD
103.	1904ME652	Mini project (Design and fabrication Project)

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104.	1904ME653	Industrial Internship
B.Tech Computer Science and Business System		
105.	1902BS301	Formal Language and Automata Theory
106.	1902BS302	Computer Organization and Architecture
107.	1902BS303	Object Oriented Programming
108.	1902BS304	Computational Statistics
109.	1902BS305	Software Engineering
110.	1902BS306	Financial Management
111.	1902BS351	Object Oriented Programming Lab
112.	1902BS352	Computational Statistics Lab
113.	1904GE351	Life Skill:Soft Skill
114.	1901MCX02	Constitution of India
115.	1902BS401	Operating Systems
116.	1902BS402	Database Management Systems
117.	1902BS403	Software Design with UML
118.	1902BS404	Marketing Research and Marketing Management
119.	1901GE401	Introduction to Innovation, IP Management and Entrepreneurship
120.	1901MA404	Operations Research
121.	1902BS451	Database Management Systems Lab
122.	1901EN301	BUSINESS COMMUNICATION & VALUE SCIENCE – III
123.	1904GE451	Life Skill:Verbal Activity
124.	1901MCX01	Environmental Studies
M.E Computer Science		
125.	2102CP104	Networking Technologies Laboratory
126.	2102CP204	Machine Learning Techniques Laboratory
127.	2104CP206	Mini Project with Seminar
128.	2103CP002	Networking Technologies
129.	2103CP003	Advanced Storage Area Network
130.	2103CP006	Semantic Web
131.	2103CP008	Software Architecture Patterns
132.	2103CP009	Cyber Security
133.	2103CP011	Applied Cryptography
134.	2103CP012	Biometric Technologies
135.	2103CP013	Soft Computing
136.	2103CP016	Deep Learning
M.E Environmental Engineering		
137.	2101RMX01	Research Methodology and IPR
138.	2103EV007	Solid and Hazardous Waste Management
139.	2103EV013	Resource and Energy Recovery from Waste
140.	2101AU002	Disaster Management

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141.	2101AU005	Constitution of India
M.E Communication System		
142.	2101CO101	Applied Engineering Mathematics for Communication System
143.	2102CO102	Antenna Design and Analysis
144.	2103CO001	Program Elective – I (Electromagnetic Interference and Compatibility in System Design)
145.	2103CO006	Program Elective – II (Network Routing Algorithms)
146.	2101RMX01	Research Methodology and IPR
147.	2102CO103	Communication System Laboratory
148.	2102CO104	RF System Design Laboratory
149.	2102CO201	Wireless Communication Engineering
150.	2102CO202	Optical Switching and Networking
151.	2102CO203	High Speed Communication Networks
152.	2103CO015	Program Elective – III(Radiating Systems)
153.	2103CO019	Program Elective – IV(Optical Signal Processing)
154.	2102CO204	Wireless Communication Networks Laboratory
155.	2104CO205	Mini Project with Seminar
156.	1702CO301	Electromagnetic Interference and Compatibility in System Design
157.	1703CO024	Elective IV - Machine Learning Algorithms
158.	1703CP017	Elective V - Embedded Software Development
159.	1704CO302	Project Work Phase-I
160.	1703CO033	Wireless Sensor Networks
161.	1703CO034	Optical Signal Processing
162.	1703CO035	High Speed Switching Architecture
163.	1703CO036	Network Engineering And Management
M.E Manufacturing Engineering		
164.	2101MF101	Probability and Statistics in Manufacturing
165.	2102MF102	Modern Manufacturing Processes
166.	2103MF001	Theory of Metal Forming
167.	2103MF007	Advanced Welding Technology
168.	2101RMX01	Research Methodology and IPR
169.	2101AU001	Audit Courses-English For Research Paper Writing
170.	2102MF103	Computer Aided Manufacturing Lab
171.	2102MF104	Metal Forming and Metal Testing Laboratory
172.	2102MF201	Industrial Automation and Mechatronics
173.	2102MF202	Robot Design and Programming
174.	2102MF203	Materials Technology
175.	2103MF012	Program Elective – III(Production and Operations Management)
176.	2103MF013	Program Elective – IV(Processing of Polymers And Composites)
177.	2101AU002	Audit Course – II(DISASTER MANAGEMENT)

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178.	2102MF204	Industrial Automation and Mechatronics Laboratory
179.	2102MF205	Modeling and Simulation Laboratory
180.	2104MF206	MINI PROJECT WITH SEMINAR
M.E Power Electronics and Drives		
181.	2101PE101	Modelling and Analysis of Electrical Machines
182.	2102PE102	Analysis and Design of Power Converters
183.	2102PE103	Analysis and Design of Inverters
184.	2103PE006	Program Elective – II Power Quality
185.	2101AU005	Audit Course – I CONSTITUTION OF INDIA
186.	2103PE011	Program Elective – III Special Machines and Their Controllers
187.	2103PE015	Program Elective – IV Electric Vehicles and Power Management
188.	2101RMX01	Research Methodology and IPR
189.	2101AU002	Audit Course – II DISASTER MANAGEMENT
190.	2102PE203	Digital Control of Power Electronic Circuits Laboratory
191.	2104PE205	Mini Project with Seminar
NEW COURSE LIST 2020-2021		
S.NO	COURSE CODE	NAME OF THE COURSE
B.E Biomedical Engineering		
192.	1901MA301	Engineering Mathematics III (Linear Algebra and Vector Calculus)
193.	1902CS306	Objetct Oriented Programming and Data Structures
194.	1902BM301	Fundamentals of Biochemistry
195.	1902BM302	Bio medical Circuits and Networks
196.	1902BM303	Bio Sensors and Measurements
197.	1902BM304	Human Anatomy and Physiology
198.	1902BM351	Devices and Circuits Laboratory
199.	1902BM352	Biochemistry and Human Physiology Laboratory
200.	1902CS353	Data Structures and C++ Laboratory
201.	1904GE351	Life Skills: Verbal Ability
202.	1901MCX02	Constitution of India
203.	1901MA401	Probability and Stochastic Processes
204.	1902BM401	Bio Mechanics
205.	1902BM402	Basics of Pathology and Microbiology
206.	1902BM403	Control Systems
207.	1902BM404	Biomedical Instrumentation
208.	1902BM405	Digital Electronics and Integrated Circuits
209.	1902BM453	Analog and Digital and IntegratedCircuits Laboratory
210.	1902BM452	Biomedical Instrumentation Laboratory
211.	1902BM451	Pathology and Microbiology Laboratory

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212.	1902GE451	Life Skills: Verbal Reasoning
213.	1901MCX01	Environmental Science
B.E Computer Science Engineering		
214.	1902CS302	Object Oriented Programming
215.	1901MCX02	Constitution of India
216.	1902CS352	Object Oriented Programming Laboratory
217.	1901GEX04	Biology for Engineers
218.	1901MCX01	Environmental Science
219.	1702CS701	Cryptography and Network Security
220.	1702CS702	Software Project Management
221.	1702CS703	Big Data Analytics
222.	1702CS704	Cloud Computing
223.	1703CS001	Service oriented Architecture
224.	1703ED001	Startup Entrepreneurship
225.	1702CS751	Cloud Computing Laboratory
226.	1702CS752	Network Security Laboratory
227.	1704CS753	Software Development Laboratory
228.	1704GE751	Life Skills: Competitive Exams Preparation
229.	1704CS754	In-plant Training / Internship Presentation
230.	1703CS024	Bioinformatics
231.	1703CS027	Data Centre and Virtualization
232.	1703CS035	Social Network Analysis
233.	1704CS851	Project Work
B.E Electronics and Communication Engineering		
234.	1901MA301	Engineering Mathematics – III (Transforms and Linear algebra)
235.	1902EC304	Biology for Engineers
236.	1902CS306	Object Oriented Programming and Data Structures
237.	1902EC301	Electron Devices
238.	1902EC302	Circuits and Networks
239.	1902EC303	Digital Electronics
240.	1902EC351	Electron Devices & Circuits Laboratory
241.	1902EC352	Digital Electronics Laboratory
242.	1902CS354	Object Oriented Programming and Data Structures Laboratory
243.	1901MCX02	Constitution of India
244.	1904GE351	Life Skills: Verbal ability
245.	1901MA402	Probability Theory and Stochastic Processes
246.	1902EC401	Electronics Circuits
247.	1902EC402	Signals and Systems
248.	1902EC403	Electromagnetic Fields
249.	1902EC404	Analog Integrated Circuits
250.	1902EC405	Microprocessors and

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		Microcontrollers
251.	1902EC451	Electronics and Integrated Circuits Laboratory
252.	1902EC452	Microprocessors and Microcontrollers Laboratory
253.	1904GE451	Life Skills: Reasoning
254.	1901MCX01	Environmental Science
255.	1702EC701	Microwave Engineering
256.	1702EC702	Optical Communication
257.	1702EC703	Wireless Communication
258.	1702EC704	Image Processing
259.	1702EC751	Microwave and Optical Communication Laboratory
260.	1704EC753	In-plant Training/ Internship Presentation
261.	1704GE751	Life Skills: Competitive Exams Preparation
262.	1702EC753	Mini Project
263.	1703MG701	Principles of Management
264.	1703MG702	Disaster Management
265.	1703MG703	Total Quality Management
266.	1703MG704	Industrial Economics
267.	1703MG705	Foundation Skills in Integrated Product Development
268.	1703EC021	Advanced Digital Signal Processing
269.	1703EC022	Embedded System
270.	1703EC023	Pattern Recognition and Machine Learning
271.	1703EC024	Speech Processing
272.	1703EC025	VLSI Signal Processing
273.	1703EC026	RF System Design
274.	1704EC851	Project Work
275.	1703EC027	Multimedia Communication
276.	1703EC028	Wireless Sensor Networks
277.	1703EC029	Radar and Navigation Aids
278.	1703EC030	Microwave Integrated Circuits
279.	1703EC031	Satellite Communication
280.	1703EC032	System-on Chip Design
281.	1703EC033	Network on Chip Design
282.	1703EC034	Low Power VLSI Design
283.	1703EC035	Analog IC Design
284.	1703EC036	Mixed Signal CMOS Design
285.	1703EC037	Electromagnetic Interference and Compatibility
286.	1703EC038	Digital System Design and Testing
287.	1703EC039	Optical Networks
288.	1703EC040	RF MEMS
289.	1703EC041	Digital Switching and Transmission
290.	1703EC042	ARM Processors

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291.	1703EC043	Mobile Computing
B.E Electrical and Electronics Engineering		
292.	1901MA303	Engineering Mathematics III (Complex Variables, Vector Calculus and Transforms)
293.	1902EE301	Analog Electronics
294.	1902EE302	Digital Electronics
295.	1902EE303	DC Machines and Transformers
296.	1902CS503	Object Oriented Programming
297.	1901MCX02	Constitution of India
298.	1902EE351	Analog Electronics Laboratory
299.	1902EE352	DC Machines and Transformers Laboratory
300.	1902CS554	Object Oriented Programming Laboratory
301.	1904GE351	Life Skills: Soft Skill
302.	1902EE401	Generation, Transmission and Distribution
303.	1902EE402	Synchronous and Asynchronous Machines
304.	1902EE403	Linear Integrated Circuits
305.	1902EE404	Communication Engineering
306.	1901GEX04	Biology for Engineers
307.	1901MCX01	Environmental Science
308.	1902EE451	Synchronous and Asynchronous Machines Laboratory
309.	1902EE452	Analog and Digital Integrated Circuits Laboratory
310.	1904GE451	Life Skills: Verbal Ability
B.Tech. IT Information and Communication		
311.	1902MA302	Engineering Mathematics III ((Queuing model and network model)
312.	1902IT304	Problem solving using Python
313.	1901GEX04	Biology for IT
314.	1902IT351	Data Structures and Algorithm Lab
315.	1902IT353	Python Programming Lab
316.	1902IT352	Digital Principles and Design Lab
317.	1904GE351	Life Skills: Verbal Ability
318.	1902MCX02	Constitution of India
319.	1902IT452	Java Programming Lab
320.	1904GE451	Life Skills: Verbal Reasoning
321.	1704GE751	Life Skills: Competitive Exam Preparation
322.	1704IT751	Software Development (Mini Project III)
323.	1704IT752	In Plant / Internship Training Presentation
324.	1703IT027	Deep Learning
B.E Mechanical Engineering		
325.	1904GE351	Life Skills: Soft Skills
326.	1901MCX01	Environmental Science

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327.	1901ME404	Biology for Engineers
328.	1904GE451	Life Skills: Verbal Ability
329.	1902MCX02	Constitution of India
330.	1702ME701	Automobile Engineering
331.	1702ME702	Mechatronics
332.	1702ME703	Computer Aided Manufacturing
333.	1701MGX02	Industrial Economics
334.	1703ME018	Power Plant Engineering
335.	1703ME011	Industrial Robotics
336.	1702ME751	Mechatronics Laboratory
337.	1702ME752	Computer Aided Manufacturing Laboratory
338.	1704ME753	Mini Project III (Simulation and analysis)
339.	1704ME754	In-Plant Training/Internship Presentation
340.	1704GE751	Life Skills : Competitive Exams Preparation
341.	1703ME015	Computer Integrated Manufacturing
342.	1703MG001	Total Quality Management
343.	1703ME014	Design Of Jigs, Fixtures And Press Tools
344.	1704ME851	Project Viva Voce
B.Tech Computer Science and Business System		
345.	1901MA105	Discrete Mathematics
346.	1901MA106	Probability and Statistics
347.	1901GE102	Principles of Electrical Engineering
348.	1901PH103	Fundamentals of Physics
349.	1901EN101	Business Communication and Value Science - I
350.	1901GE103	Fundamentals of Computer Science
351.	1901MA205	Linear Algebra
352.	1901MA206	Statistical Modeling
353.	1901GE202	Data Structures and Algorithms
354.	1901GE203	Principles of Electronics
355.	1901HS201	Fundamentals of Economics
356.	1901EN201	Business Communication and Value Science - II
M.E Communication System		
357.	1701CO101	Applied Engineering Mathematics
358.	1702CO102	Advanced Digital Signal Processing
359.	1702CO103	High Speed Communication Networks
360.	1702CO104	Advanced Digital Communication
361.	1702CO105	Wireless Communication Engineering
362.	1704CO106	Signals Processing and Communication Laboratory
363.	1704CO107	Wireless Communication Networks Lab
364.	1704CO108	Communication Skills Laboratory - I
365.	1702CO201	FPGA Based Communication System Design

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366.	1702CO202	Microwave Integrated Circuits
367.	1702CO203	Optical Switching and Networking
368.	1702CO204	Information Theory and Coding
369.	1704CO205	RF System Design Laboratory
370.	1704CO206	Technical Seminar
371.	1704CO207	Communication Skills Laboratory -II
372.	1702CO301	Electromagnetic Interference and Compatibility in System Design
373.	1703CO024	Elective IV - Machine Learning Algorithms
374.	1703CP017	Elective V - Embedded Software Development
375.	1704CO302	Project Work Phase-I
376.	1703CO033	Wireless Sensor Networks
377.	1703CO034	Optical Signal Processing
378.	1703CO035	High Speed Switching Architecture
379.	1703CO036	Network Engineering And Management
M.E Manufacturing Engineering		
380.	1701MF101	Advanced Optimization Techniques
381.	1702MF102	Polymers and Composite Materials
382.	1702MF103	Materials Testing and Mechanical Characterization
383.	1702MF104	Industrial Automation and Mechatronics
384.	1702MF105	Robot Design and Programming
385.	1703MF003	Micro electrical mechanical systems and Nano technology
386.	1704MF106	CAD /CAM LAB
387.	1704MF107	Industrial automation lab and mechatronics lab
388.	1704MF108	Communication Skills Lab I
389.	1701MF201	Advanced Machining Technology
390.	1702MF202	Flexible Tooling and Automated Inspection
391.	1702MF203	Theory of Metal Forming
392.	1702MF204	Advances in Casting and Welding
393.	1702MF205	Precision Machining
394.	1703MF002	Flexible Manufacturing Systems
395.	1704MF206	Metal Forming Lab
396.	1704MF207	Technical Seminar
397.	1704MF208	Communication Skills Lab II
398.	1703MF011	Rapid Prototyping
399.	1703MF016	Heat Treatment
400.	1703EV017	Industrial Waste Management
401.	1704MF301	Project Work Phase-I
402.	1704MF401	Project Work (Phase II)
MBA		
403.	2002BA101	Management Concepts and Organizational Behavior

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MCA		
404.	2001CA101	Linear Algebra, Probability and Statistics
405.	2002CA102	Advanced Data structures and Algorithms
406.	2002CA103	Computer Communications and Networks
407.	2002CA104	Advanced Databases
408.	2002CA105	Python Programming
409.	2002CA106	Software Engineering and Project Management
410.	2002CA107	Advanced Data structures and Algorithms Laboratory
411.	2002CA108	Python Programming Laboratory
412.	2002CA201	Advanced Java Programming
413.	2002CA202	Mobile Technologies
414.	2002CA203	Data Mining Techniques
415.	2002CA204	Internet of Things
416.	2002CA205	Professional Practice and Ethics
417.	2002CA206	Java and Web Programming Laboratory
418.	2002CA207	Mobile Application Development Lab
419.	2002CA301	Cryptography and Network Security
420.	2002CA302	Distributed Systems and Cloud Computing
421.	2002CA303	Human Resource Management
422.	2002CA304	Data Analytics
423.	2002CA305	Data Analytics Laboratory
424.	2002CA306	Distributed System and Cloud Laboratory
425.	2004CA401	Project Work
426.	2003CA001	Research Methodology and IPR
427.	2003CA002	Software Quality Assurance
428.	2003CA003	Digital Image Processing
429.	2003CA004	Computer Graphics and Animation
430.	2003CA005	Software Testing
431.	2003CA006	Machine Learning Techniques
432.	2003CA007	Artificial Intelligence
433.	2003CA008	Compiler Design
434.	2003CA009	Cognitive Computing
435.	2003CA010	Visualization Techniques
436.	2003CA011	R Programming
437.	2003CA012	PHP Programming
438.	2003CA013	Java Server Pages
439.	2003CA014	.NET Programming
440.	2003CA015	Block chain Technologies
NEW COURSE LIST 2019-2020		
B.E Biomedical Engineering		
441.	1901GEX03	Programming for Problem Solving

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442.	1901ENX01	English for Engineers
443.	1901GEX52	Computer Programming Lab
444.	1901GE151	Engineering Intelligence I
445.	1901HSX51	Communication Skill Lab
446.	1901MA204	Engineering Mathematics–II (Calculus,Equations and Complex Variable)
447.	1901PH202	Semiconductor Physics & Optoelectronics
448.	1901GEX01	Basic Electrical and Electronics Engineering
449.	1901GEX02	Engineering Graphics
450.	1901GE201	Engineering Exploration
451.	1901GE254	Computer Hardware and IT Essentials Lab
452.	1901GE252	Engineering Intelligence - II
453.	1901GEX51	CAD Lab
B.E Civil Engineering		
454.	1904GE351	Life Skills: Verbal Ability
455.	1901CE405	Biology For Engineers
456.	1904GE451	Life Skills: Verbal Reasoning
457.	1904GE551	Life Skill III - Aptitude – I
458.	1902MCX03	Essence of Indian Traditional Knowledge
459.	1902CE604	Global Warming and Climate Change
460.	1904GE651	Life Skill: Aptitude – II & GD
461.	1903CE033	Water Pollution and Management
462.	1901HS002	Intellectual Property Rights for engineers
463.	1901HS006	Design Thinking for Innovation
B.E Computer Science Engineering		
464.	1901MA102	Engineering Mathematics –I
465.	1901ENX01	English for Engineers
466.	1901GE151	Engineering Intelligence I
467.	1901MA202	Engineering Mathematics –II
468.	1901PH201	Physics for Information Science
469.	1901GEX02	Engineering Graphics
470.	1901GE201	Engineering Exploration
471.	1901GE254	Computer Hardware and IT Essentials Lab
472.	1901GE252	Engineering Intelligence - II
473.	1901GEX51	CAD Lab
474.	1901GEX53	Basic Electrical and Electronics Engineering Lab
475.	1701MA501	Discrete Mathematics
476.	1702CS501	Object Oriented Analysis and Design
477.	1702CS502	Theory of Computation
478.	1702CS503	Computer Graphics and Multimedia
479.	1703CS002	Software Testing (Elective I)

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480.	1703CS006	Mobile Computing(Elective II)
481.	1702CS551	Computer Graphics and Multimedia Laboratory
482.	1704CS552	CASE Tools Laboratory
483.	1704CS553	Technical Seminar
484.	1704GE551	Life Skills: Aptitude-I
485.	1701MGX01	Professional Ethics
486.	1702CS601	Web Technology
487.	1702CS602	Artificial Intelligence
488.	1702CS603	Distributed Systems
489.	1703CS012/ 1703MG008	Data Warehousing and Data Mining/Human Rights
490.	1702CS651	Web Technology Laboratory
491.	1704CS652	Mobile Application Development Laboratory
492.	1704CS653	Industrial Visit Presentation
493.	1704GE651	Life Skills: Aptitude-II
B.E Electronics and Communication Engineering		
494.	1901MA104	Engineering Mathematics –I (Linear Algebra, Calculus and Partial differentiation)
495.	1901CH102	Chemistry for Electronic Engineers
496.	1901GEX03	Programming for Problem Solving
497.	1901ENX01	English for Engineers
498.	1901GEX52	Computer Programming Lab
499.	1901GEX51	Engineering Intelligence I
500.	1901CHX51	Engineering Chemistry Lab
501.	1901HS151	Communication Skills
502.	1901MA204	Engineering Mathematics –II (Calculus, Ordinary Differential Equations and Complex Variable)
503.	1901PH202	Semiconductor Physics and Optoelectronics
504.	1901GEX01	Basic Electrical and Electronics Engineering
505.	1901GEX02	Engineering Graphics
506.	1901GE201	Engineering Exploration
507.	1901GE254	Computer Hardware and IT Essentials Lab
508.	1901GE252	Engineering Intelligence - II
509.	1901GEX51	CAD Lab
510.	1901GEX53	Basic Electrical and Electronics Engineering Lab
511.	1901PHX51	Engineering Physics Lab
512.	1702EC501	Analog Communication
513.	1702EC502	Antenna and Wave Propagation

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514.	1702EC503	Digital Signal Processing
515.	1702EC504	Computer Networks
516.	1702EC551	Analog Communication Laboratory
517.	1702EC552	Digital Signal Processing Laboratory
518.	1703EC501	Nano Electronics
519.	1703EC502	Automotive Electronics
520.	1703EC503	Micro Electronics
521.	1703EC504	Biomedical Engineering
522.	1703EC505	Robotic Vision
523.	1703EC506	Computer Architecture and Organization
524.	1703EC507	Advanced Microcontrollers
525.	1703EC508	Measurement and Instrumentation
526.	1703EC509	Virtual Instrumentation
527.	1702CSX01	Operating Systems
528.	1701MGX01	Professional Ethics
529.	1702EC601	VLSI Design
530.	1702EC602	Digital Communication
531.	1702EC603	Wireless Networks and Standards
532.	1702EC651	VLSI Design Laboratory
533.	1702EC652	Communication and Networks Laboratory
534.	1703EC601	Information Theory and Coding
535.	1703EC602	Digital Control Engineering
536.	1703EC603	Network Security
537.	1703EC604	Real Time Operating Systems
538.	1703EC605	Soft Computing
539.	1703EC813	Cloud Computing
540.	1703EC814	Internet of Things (IoT)
541.	1703EC815	Big Data Analytics
542.	1703EC816	Introduction to Web Technology
543.	1703EC817	Grid Computing
B.E Electrical and Electronics Engineering		
544.	1901MA103	Engineering Mathematics – I (Calculus and Differential Equations)
545.	1901PH102	Wave, Optics and Electromagnetism
546.	1901GE101	Electric Circuit Analysis
547.	1901GEX02	Engineering Graphics
548.	1901GEX51	CAD Lab
549.	1901GEX53	Basic Electrical and Electronics Engineering Lab
550.	1901PHX51	Engineering Physics Lab
551.	1901GE151	Engineering Intelligence-I

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552.	1901MA203	Engineering Mathematics – II (Linear Algebra, Transform Calculus and Numerical Methods)
553.	1901CH202	Applied Chemistry
554.	1901GEX03	Programming for Problem Solving
555.	1901ENX01	English for Engineers
556.	1901GE201	Engineering Exploration
557.	1901CHX51	Engineering Chemistry Lab
558.	1901GE253	Basic Workshop Lab
559.	1901GEX52	Computer Programming Lab
560.	1901HSX51	Communication Skill Lab
561.	1901GE252	Engineering Intelligence – II
562.	1702EE501	Electrical Machine Design
563.	1702EE502	Linear Control Systems
564.	1702EE503	Power Electronics
565.	1703EE001	SPECIAL ELECTRICAL MACHINES
566.	1703EE002	ELECTRICAL SAFETY AND MANAGEMENT
567.	1702CS504	Object Oriented Programming
568.	1702CS554	Object Oriented Programming Laboratory
569.	1702EE551	Measurement and Control Laboratory
570.	1704EE552	Mini Project – I
571.	1704GE551	Life Skills: Aptitude-I
572.	1701MGX02	Industrial Economics
573.	1702EE601	Solid State Drives
574.	1702EE602	Power System Analysis
575.	1702EE603	Microprocessor, Microcontroller and its Applications
576.	1703EE009	Power System Transient
577.	Elective-VI (Open Elective)	Elective-VI (Open Elective)
578.	1702EE651	Power Electronics and Drives Laboratory
579.	1702EE652	Microprocessor, Microcontroller and its Applications Laboratory
580.	1704EE653	Mini Project – II
581.	1704EE654	Industrial Visit Presentation
582.	1704GE651	Life Skills: Aptitude – II
B.Tech. IT Information and Communication		
583.	1901MA102	Engineering Mathematics – i (calculus and linear algebra)
584.	1901CH101	Applied Chemistry in Informatics
585.	1901GEX03	Programming for problem solving
586.	1901ENX01	English for Engineers
587.	1901GE151	Engineering Intelligence 1
588.	1901PH201	Physics for Information Science

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589.	1901GE252	Engineering Intelligence II
590.	1901GE201	Engineering Exploration
591.	1901GE254	Computer Hardware and IT Essentials Lab
592.	1901GEX51	CAD Lab
593.	1901GEX53	Basic Electrical and Electronics Engineering Lab
594.	1703IT005	Software Testing Methods and Tools
595.	1704GE551	Life Skills: Aptitude I
596.	1704IT552	Technical Seminar
597.	1702IT601	C# and .NET
598.	1704IT651	Mobile Application Development (Mini Project II)
599.	1704GE651	Life Skills: Aptitude II
600.	1704IT652	Industrial Visit Presentation
B.E Mechanical Engineering		
601.	1901PH101	Introduction to Mechanics
602.	1901GEX51	CAD Lab
603.	1901GEX52	Basic Electrical and Electronics Engineering Lab
604.	1901HSX51	Communication Skills
605.	1901GEX03	Programming for Problem Solving
606.	1901ENX01	English for Engineers
607.	1901GE201	Engineering Exploration
608.	1901GE253	Basic Workshop Lab
609.	1901HSX51	Communication Skill Lab
610.	1901GE252	Engineering Intelligence - II
611.	1701MA502	Operations Research
612.	1702ME501	Heat and Mass Transfer
613.	1702ME502	Computer Aided Design
614.	1702ME503	Design of Transmission Systems
615.	1703ME001	Non - Traditional Machining Processes
616.	1703ME006	WELDING TECHNOLOGY
617.	1702ME551	Heat Transfer Laboratory
618.	1702ME552	Computer Aided Design Laboratory
619.	1704ME553	Mini Project I (Design and Fabrication)
620.	1704GE551	Life Skills: Aptitude I
621.	1701MGX01	Professional Ethics
622.	1702ME601	Finite Element Analysis
623.	1702ME602	Gas Dynamics and Jet Propulsion
624.	1702ME603	Dynamics of Machines
625.	1703ME007	Process Planning And Cost Estimation
626.	1703ME026	Safety Engineering
627.	1702ME651	Dynamics of Machines Laboratory

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628.	1702ME652	Computer Aided Analysis Laboratory
629.	1704ME653	Mini Project II
630.	1704ME654	Industrial Visit Presentation
631.	1704GE651	Life Skills: Aptitude II
M.E Communication System		
632.	1701CO101	Applied Engineering Mathematics
633.	1702CO102	Advanced Digital Signal Processing
634.	1702CO103	High Speed Communication Networks
635.	1702CO104	Advanced Digital Communication
636.	1702CO105	Wireless Communication Engineering
637.	1704CO106	Signals Processing and Communication Laboratory
638.	1704CO107	Wireless Communication Networks Lab
639.	1704CO108	Communication Skills Laboratory - I
640.	1702CO201	FPGA Based Communication System Design
641.	1702CO202	Microwave Integrated Circuits
642.	1702CO203	Optical Switching and Networking
643.	1702CO204	Information Theory and Coding
644.	1704CO205	RF System Design Laboratory
645.	1704CO206	Technical Seminar
646.	1704CO207	Communication Skills Laboratory -II
647.	1702CO301	Electromagnetic Interference and Compatibility in System Design
648.	1703CO024	Elective IV - Machine Learning Algorithms
649.	1703CP017	Elective V - Embedded Software Development
650.	1704CO302	Project Work Phase-I
651.	1703CO033	Wireless Sensor Networks
652.	1703CO034	Optical Signal Processing
653.	1703CO035	High Speed Switching Architecture
654.	1703CO036	Network Engineering And Management
M.E Manufacturing Engineering		
655.	1701MF101	Advanced Optimization Techniques
656.	1702MF102	Polymers and Composite Materials
657.	1702MF103	Materials Testing and Mechanical Characterization
658.	1702MF104	Industrial Automation and Mechatronics
659.	1702MF105	Robot Design and Programming
660.	1703MF003	Micro electrical mechanical systems and Nano technology
661.	1704MF106	CAD /CAM LAB
662.	1704MF107	Industrial automation lab and mechatronics lab
663.	1704MF108	Communication Skills Lab I
664.	1701MF201	Advanced Machining Technology

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665.	1702MF202	Flexible Tooling and Automated Inspection
666.	1702MF203	Theory of Metal Forming
667.	1702MF204	Advances in Casting and Welding
668.	1702MF205	Precision Machining
669.	1703MF002	Flexible Manufacturing Systems
670.	1704MF206	Metal Forming Lab
671.	1704MF207	Technical Seminar
672.	1704MF208	Communication Skills Lab II
673.	1703MF011	Rapid Prototyping
674.	1703MF016	Heat Treatment
675.	1703EV017	Industrial Waste Management
676.	1704MF301	Project Work Phase-I
677.	1704MF401	Project Work (Phase II)
NEW COURSE LIST 2018-2019		
B.E Computer Science Engineering		
678	1701MA301	Engineering Mathematics III
679	1702CS301	Data Structures
680	1702CS302	Computer Organization and Architecture
681	1702CS303	Software Engineering
682	1702CS304	Digital Systems
683	1702CS305	Operating Systems
684	1702CS351	Data Structures Laboratory
685	1702CS352	Operating Systems Laboratory
686	1704GE351	Life Skills: Soft Skills
687	1701MA401	Probability and Queuing Theory
688	1702CS401	Computer Networks
689	1702CS402	Programming Paradigms
690	1702CS403	Design and Analysis of Algorithms
691	1702CS404	Microprocessors and Microcontrollers
692	1702CSX02	Database Management Systems
693	1702CS451	Networks Laboratory
694	1702CSX52	Database Management Systems Laboratory
695	1704GE451	Life Skills: Verbal Ability
B.E Electronics and Communication Engineering		
696	1701MA301	Linear Algebra and Partial Differential Equations
697	1702CS304	Data Structures and C++
698	1702EC301	Network Analysis and Synthesis
699	1702EC302	Engineering Electromagnetics
700	1702EC303	Digital Circuits and Systems
701	1702EC304	Electronics Circuits
702	1702EC351	Digital Electronics Laboratory

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703	1702EC352	Electronic Circuits Laboratory
704	1702CS351	Data Structures Laboratory
705	1704GE351	Life Skills: Business English
706	1701MA403	Probability and Random Processes
707	1702EC402	Signals and Systems
708	1702EC403	Analog Integrated Circuits
709	1702EC404	Microprocessors and Microcontrollers
710	1702EC405	Transmission Lines and Waveguides
711	1702EC406	Control Systems
712	1702EC451	Analog Integrated Circuits Laboratory
713	1702EC452	Microprocessors and Microcontrollers Laboratory
714	1704GE451	Life Skills: Verbal Ability
B.E Electrical and Electronics Engineering		
715	1701MA301	Engineering Mathematics-III
716	1702EE301	Electron Devices and Circuits
717	1702EE302	Digital Electronics
718	1702EE303	Electromagnetic Theory
719	1702EE304	Power Plant Engineering
720	1702EE305	Electrical Machinery-I
721	1702EE351	Electrical Machinery Laboratory-I
722	1702EE352	Electron Devices and Circuits Laboratory
723	1704EE353	Technical Seminar I
724	1704GE351	Life Skills: Soft Skills
725	1701MA403	Numerical Methods and Statistics
726	1702EE401	Measurements and Instrumentation
727	1702EE402	Linear Integrated Circuits
728	1702EE403	Transmission and Distribution
729	1702EE404	Electrical Machinery-II
730	1702EC406	Communication Engineering
731	1702EE451	Electrical Machinery Laboratory-II
732	1702EE452	Analog And Digital Integrated Circuits Laboratory
733	1704EE453	Technical Seminar II
734	1704GE451	Life Skills: Verbal Ability
B.Tech. IT Information and Communication		
735	1702IT301	Data Structures and Algorithms
736	1702IT302	Digital Principles and Design
737	1702IT303	Principles of Communication
738	1704GE351	Life Skills: Soft Skills
739	1702IT401	Software Engineering and Project Management
740	1702IT402	Java Programming
741	1702IT403	Internet of Things

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742	1701CH201	Environmental Studies
743	1704GE451	Life Skills: Verbal Ability
B.E Mechanical Engineering		
744	1701MA301	Engineering Mathematics III
745	1702ME301	Engineering Thermodynamics
746	1702ME302	Engineering Materials and Metallurgy
747	1702ME303	Fluid Mechanics and Machinery
748	1702ME304	Strength of Materials
749	1702ME305	Manufacturing Technology – I
750	1702ME351	Machine Drawing- I
751	1702ME352	Manufacturing Technology Laboratory - I
752	1704ME353	Technical Seminar I
753	1702ME354	Fluid Mechanics and Machinery Lab
754	1704GE351	Life Skills: Soft Skills
755	1702MA403	Numerical Methods and Statistics
756	1702ME401	Thermal Engineering
757	1702ME402	Measurements and Metrology
758	1702ME403	Kinematics of Machines
759	1702ME404	Design of Machine Elements
760	1702ME405	Manufacturing Technology -II
761	1702ME451	Thermal Engineering Laboratory
762	1702ME452	Manufacturing Technology Laboratory – II
763	1704ME453	Technical Seminar II
764	1704GE451	Life Skills: Verbal Ability
M.E Computer Science		
765	1703CP026	Design And Management Of Computer Networks
766	1703CP027	Design And Analysis Of Parallel Algorithms
767	1703CP028	Research Methodology
M.E Communication System		
768	1701CO101	Applied Engineering Mathematics
769	1702CO102	Advanced Digital Signal Processing
770	1702CO103	High Speed Communication Networks
771	1702CO104	Advanced Digital Communication
772	1702CO105	Wireless Communication Engineering
773	1704CO106	Signals Processing and Communication Laboratory
774	1704CO107	Wireless Communication Networks Lab
775	1704CO108	Communication Skills Laboratory - I
776	1702CO201	FPGA Based Communication System Design
777	1702CO202	Microwave Integrated Circuits
778	1702CO203	Optical Switching and Networking
779	1702CO204	Information Theory and Coding

ATTESTED

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780	1704CO205	RF System Design Laboratory
781	1704CO206	Technical Seminar
782	1704CO207	Communication Skills Laboratory -II
783	1702CO301	Electromagnetic Interference and Compatibility in System Design
784	1703CO024	Elective IV - Machine Learning Algorithms
785	1703CP017	Elective V - Embedded Software Development
786	1704CO302	Project Work Phase-I
787	1703CO033	Wireless Sensor Networks
788	1703CO034	Optical Signal Processing
789	1703CO035	High Speed Switching Architecture
790	1703CO036	Network Engineering And Management
M.E Manufacturing Engineering		
791	1701MF101	Advanced Optimization Techniques
792	1702MF102	Polymers and Composite Materials
793	1702MF103	Materials Testing and Mechanical Characterization
794	1702MF104	Industrial Automation and Mechatronics
795	1702MF105	Robot Design and Programming
796	1703MF003	Micro electrical mechanical systems and Nano technology
797	1704MF106	CAD /CAM LAB
798	1704MF107	Industrial automation lab and mechatronics lab
799	1704MF108	Communication Skills Lab I
800	1701MF201	Advanced Machining Technology
801	1702MF202	Flexible Tooling and Automated Inspection
802	1702MF203	Theory of Metal Forming
803	1702MF204	Advances in Casting and Welding
804	1702MF205	Precision Machining
805	1703MF002	Flexible Manufacturing Systems
806	1704MF206	Metal Forming Lab
807	1704MF207	Technical Seminar
808	1704MF208	Communication Skills Lab II
809	1703MF011	Rapid Prototyping
810	1703MF016	Heat Treatment
811	1703EV017	Industrial Waste Management
812	1704MF301	Project Work Phase-I
813	1704MF401	Project Work (Phase II)
M.E Power System		
814	1703PE018	Elective III- Optimization Techniques
815	1703PE001	Elective IV - Recent trends in power conversion Technology
816	1703EV020	Elective V-Environmental Engineering and Pollution Control
817	1704PE301	Project Work Phase-I

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Email: principal@egspec.org website: www.egspec.org Ph: 04365-251112

818	1704PE401	Project Work Phase-II
NEW COURSE LIST 2017-2018		
B.E Civil Engineering		
819.	1704CE353	Technical Seminar - I
820.	1704GE351	Life Skills: Soft skills
821.	1704CE454	Technical Seminar - II
822.	1704GE451	Life Skills: Verbal Ability
823.	1703CE001	Remote Sensing and GIS (Elective I)
824.	1703CE006	Solid Waste Management (Elective II)
825.	1704CE553	Mini Project I
826.	1704GE551	Life Skills: Aptitude - I
827.	1703CE009	Ground Water Engineering (Elective III)
828.	1704GE651	Life Skills: Aptitude - II
829.	1702CE653	Mini Project II
830.	1702CE654	Industrial Visit / Presentation
831.	1702CE753	Mini Project III
832.	1704GE751	Competitive exams Preparation
833.	1702CE754	In plant Training / Internship Presentation
B.E Computer Science Engineering		
834	1701MA101	Engineering Mathematics-I
835	1701PH101	Applied Physics for Engineers
836	1701CH101	Applied Chemistry in Informatics
837	1701EN101	Technical English
838	1701GEX01	Basic Electrical and Electronics Engineering
839	1701GEX02	Engineering Graphics
840	1701GEX03	Programming in C
841	1701HS151	Physics and Chemistry Lab –I
842	1701GEX51	Programming in C Lab
843	1701MA201	Engineering Mathematics-II
844	1701PH201	Physics of Engineering Materials
845	1701CH201	Environmental Studies
846	1701GE201	Basic Civil & Mechanical Engineering
847	1702CS201	Programming in C++
848	1701LE201/ 1701LE202	Communicative English/ Hindi
849	1701GEX53	Workshop Practice
850	1701HS251	Physics and Chemistry Lab –II
851	1702CS251	Programming in C++ Lab
852	1701GEX52	Communication Skills Lab
B.E Electronics and Communication Engineering		
853	1701MA101	Engineering Mathematics-I

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854	1701PH101	Applied Physics for Engineers
855	1701EN101	Technical English
856	1701CH104	Applied Chemistry
857	1701GE101	Basic Electrical and Instrumentation Engineering
858	1701GEX02	Engineering Graphics
859	1701GEX03	Programming in C
860	1701HS151	Physics and Chemistry Lab –I
861	1701GEX51	Programming in C Lab
862	1701MA201	Engineering Mathematics II
863	1701PH202	Semiconductor Physics and Devices
864	1701CH201	Environmental Studies
865	1701GE201	Basic Civil and Mechanical Engineering
866	1701EC201	Circuit Theory
867	1701GEX52	Communication Skills Lab
868	1701GEX53	Workshop Practice
869	1701HS251	Physics and Chemistry Laboratory - II
B.E Electrical and Electronics Engineering		
870	1701MA101	Engineering Mathematics-I
871	1701PH101	Applied Physics for Engineers
872	1701EN101	Technical English
873	1701CH104	Applied Chemistry
874	1701GE102	Basic Civil Engineering
875	1701GE103	Basic Mechanical Engineering
876	1701HS151	Physics and Chemistry Laboratory –I
877	1701GEX52	Communication Skills Laboratory
878	1701GEX53	Workshop Practice
879	1701MA201	Engineering Mathematics-II
880	1701PH202	Semiconductor Physics and Devices
881	1701CH201	Environmental Studies
882	1701GEX02	Engineering Graphics
883	1701GEX03	Programming in C
884	1702EE201	Electric Circuit Analysis
885	1701LE201	Language Elective
886	1701GEX51	Programming in C Laboratory
887	1701HS251	Physics and Chemistry Laboratory -II
B.Tech. IT Information and Communication		
888	1701PH101	Applied Physics for Engineers
889	1701CH101	Applied Chemistry in Informatics
890	1701GEX01	Basic Electrical and Electronics Engineering
891	1701GEX52	Communication Skills Lab

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892	1701PH201	Physics of Engineering Materials
893	1702CS201	Programming in C++
894	1701CH201	Environmental Studies
895	1701GE201	Basic Civil and Mechanical Engineering
896	1701LE201	Communicative English
897	1702CS251	Programming in C++ Lab
B.E Mechanical Engineering		
898	1701MA101	Engineering Mathematics-I
899	1701PH101	Applied Physics for Engineers
900	1701EN101	Technical English
901	1701CH102	Materials Chemistry
902	1701GE104	Fundamentals of Mechanical Engineering
903	1701GEX03	Programming in C
904	1701HS151	Physics and Chemistry Lab –I
905	1701GEX51	Programming in C Lab
906	1701GEX53	Workshop Practice
907	1701MA201	Engineering Mathematics II
908	1701PH203	Materials Science
909	1701CH201	Environmental Studies
910	1701GEX01	Basic Electrical and Electronics Engineering
911	1701GEX02	Engineering Graphics
912	1701GEX04	Engineering Mechanics
913	1701GEX52	Communication Skills Lab
914	1701HS251	Physics and Chemistry Lab II
B.Tech Computer Science and Business System		
NIL		
M.E Computer Science		
915	1701CP101	Applied Probability And Statistics
916	1702CP102	Advanced Data Structures And Algorithms
917	1702CP103	Advanced Computer Architecture
918	1702CP104	Advanced Operating Systems
919	1702CP105	Design And Management Of Computer Networks
920	1704CP106	Advanced Data Structures Laboratory
921	1704CP107	Case Study – Operating Systems Design
922	1704CP108	Communication Skills Lab I
923	1701CP201	Software Process And Project Management
924	1702CP202	Security In Computing
925	1702CP203	Internet Of Things
926	1702CP204	Advanced Databases
927	1702CP205	Machine Learning Techniques
928	1704CP206	Advanced Database Laboratory

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929	1704CP208	Communication Skills Lab II
930	1703CP001	Big Data Analytics
931	1703CP002	Advanced Graph Theory
932	1703CP003	Image Processing and Analysis
933	1703CP004	Cloud Computing
934	1703CP005	Data Mining Techniques
935	1703CP006	Real Time Systems
936	1703CP007	Mobile and Pervasive Computing
937	1703CP008	Parallel Programming Paradigms
938	1703CP009	Information Retrieval Techniques
939	1703CP010	Network and Information Security
940	1703CP011	Performance Analysis of Computer Systems
941	1703CP012	Language Technologies
942	1703CP013	Computer Vision
943	1703CP014	Speech Processing and Synthesis
944	1703CP015	Software Quality Assurance and Testing
945	1703CP016	Ad hoc Mobile Wireless Networks
946	1703CP017	Embedded Software Development
947	1703CP018	Social Network Analysis
948	1703CP019	Bio-inspired Computing
949	1703CP020	Compiler Optimization Techniques
950	1703CP021	Data Visualization Techniques
951	1703CP022	Reconfigurable Computing
952	1703CP023	Mobile Application Development
953	1703CP024	Bio Informatics
954	1703CP025	Information Storage Management
M.E Environmental Engineering		
955	17EV108	Communication Skills Lab I
956	17EV206	Unit Operations and Processes Laboratory
957	17EV207	Communication Skills Lab II
958	17EV208	Technical Seminar
M.E Communication System		
959	1701CO101	Applied Engineering Mathematics
960	1702CO102	Advanced Digital Signal Processing
961	1702CO103	High Speed Communication Networks
962	1702CO104	Advanced Digital Communication
963	1702CO105	Wireless Communication Engineering
964	1704CO106	Signals Processing and Communication Laboratory
965	1704CO107	Wireless Communication Networks Lab
966	1704CO108	Communication Skills Laboratory - I
967	1702CO201	FPGA Based Communication System Design

ATTESTED

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968	1702CO202	Microwave Integrated Circuits
969	1702CO203	Optical Switching and Networking
970	1702CO204	Information Theory and Coding
971	1704CO205	RF System Design Laboratory
972	1704CO206	Technical Seminar
973	1704CO207	Communication Skills Laboratory -II
974	EL7301	Digital Switching and Transmission
975	EL7311	Project Work (Phase I)
976	AP7301	Electromagnetic Interference and Compatibility
977	CU7002	MEMS and NEMS
978	CU7101	Advanced Radiation Systems
979	DS7301	Speech and Audio Signal Processing
980	DS7003	Array Signal Processing
981	DS7002	Bio Signal Processing
982	EL7411	Project Work (Phase II)
M.E Manufacturing Engineering		
983	1701MF101	Advanced Optimization Techniques
984	1702MF102	Polymers and Composite Materials
985	1702MF103	Materials Testing and Mechanical Characterization
986	1702MF104	Industrial Automation and Mechatronics
987	1702MF105	Robot Design and Programming
988	1703MF003	Micro electrical mechanical systems and Nano technology
989	1704MF106	CAD /CAM LAB
990	1704MF107	Industrial automation lab and mechatronics lab
991	1704MF108	Communication Skills Lab I
992	1701MF201	Advanced Machining Technology
993	1702MF202	Flexible Tooling and Automated Inspection
994	1702MF203	Theory of Metal Forming
995	1702MF204	Advances in Casting and Welding
996	1702MF205	Precision Machining
997	1703MF002	Flexible Manufacturing Systems
998	1704MF206	Metal Forming Lab
999	1704MF207	Technical Seminar
100	1704MF208	Communication Skills Lab II
100	MN8005	Fluid Power Automation
100	MN8073	Non Destructive Evaluation
100	MN8010	METAL CUTTING THEORY AND PRACTICE
100	MN8311	Project Work Phase I
100	MN8411	Project Work Phase II
M.E Power System		
1006.	1701PE101	Applied Mathematics for Electrical Engineers ATTESTED

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1007.	1701PE102	Power Semiconductor Devices and Recent Advancements
1008.	1701PE103	Analysis of Power Converters
1009.	1701PE104	Analysis of Inverters
1010.	1701PE105	Modelling and Analysis of Electrical Machines
1011.	1703PE012	SOLAR AND ENERGY STORAGE SYSTEM
1012.	1704PE106	Power Electronic Circuits Laboratory
1013.	1704PE107	Power Electronics Simulation Laboratory
1014.	1704PE108	Communication Skills Lab I
1015.	1701PE201	Research Methodology
1016.	1701PE202	Solid State DC Drives
1017.	1701PE203	Solid State AC Drives
1018.	1701PE204	Power Quality Issues and Solutions
1019.	1701PE205	Modelling and Design of SMPS
1020.	1703PE002	POWER CONVERTERS FOR SOLAR AND WIND ENERGY CONVERSION SYSTEM
1021.	1701PE206	Electrical Drives Laboratory
1022.	1701PE207	Technical Seminar
1023.	1701PE208	Communication Skills Lab II
MCA		
1024.	1702CA102	Problem Solving and C Programming
1025.	1702CA103	Database Management Systems
1026.	1702CA104	Data Structures
1027.	1702CA105	Computer Organization and Design
1028.	1702CA106	Data structures and Programming Laboratory
1029.	1702CA107	Database Management Systems Laboratory
1030.	1702CA201	Computer Communications and Networks
1031.	1702CA202	Operating System Concepts
1032.	1702CA203	Software Engineering Methodologies
1033.	1702CA204	Design and Analysis of Algorithms
1034.	1702CA205	Object Oriented Programming
1035.	1702CA206	OOP and Algorithms Laboratory
1036.	1702CA207	OS and Network Programming Laboratory

**Total number of New Courses offered by the Institution
across all programmes during the last five years**

1036

ATTESTED


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