

Registrar Office

Notification

Ref. No.: RO/New Course/54/2021

Date- 21.07.2021

The University introduced several new courses during the last five academic years, i.e 1st July 2016 - 30th June 2021.

All these new courses were approved by the Academic Council in its:

1. 14th Meeting held on 14.08.2016
2. 16th Meeting held on 19.08.2017
3. 18th Meeting held on 28.07.2018
4. 19th Meeting held on 01.12.2018
5. 20th Meeting held on 17.05.2019
6. 22nd Meeting held on 20.06.2020

Details of the new courses are attached in Annexure I - V.



(Ashok Kumar Singh)
Registrar

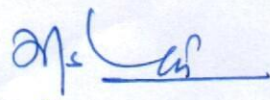
Copy to for your kind information:

1. Hon'ble Vice-Chancellor
2. Pro Vice-Chancellor
3. All Directors/Dean/HoD
4. Controller of Examinations
5. Master File



List of New Courses Introduced During the Session 2016-17

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
1	B.Tech- Computer Science and Engineering	4	Soft Skills -I
2			Soft Skills -II
3			Soft Skills - III
4			Soft Skills - IV
5	Bachelor of Computer Applications	13	Soft Skills & Personality Development
6			Core Java
7			Web Technology
8			Design and Analysis of Algorithms
9			Operations Research
10			Computer Graphics & Multimedia Techniques
11			.Net Framework using VB.Net
12			VB.Net Programming Lab
13			Project
14			Artificial Intelligence
15			Enterprise Resource Planning
16			Advanced Java
17			Advanced Database Management System
18	Master of Computer Applications	16	Web Technology
19			Distributed System
20			.Net framework using C#
21			Web Technology Lab
22			.Net framework Lab
23			Mini Project III
24			Seminar
25			Industrial Training
26			Data Mining & Warehousing
27			Cloud Computing
28			Mobile Computing
29			Agile Software Development
30			Cryptography & Network Security
31			Software Project Management
32			Artificial Intelligence
33			Business Intelligence
35	M.Tech. Electronics & Communication Engineering	1	CAD for VLSI Circuits
36	Ph.D ME	1	Numerical technique and soft computing
37	B.Tech. Civil Engineering	2	Engineering Geology
38			Civil Engineering Materials
39	BBA (H) 4700	10	Essentials of Management
40			Economic Concepts & Practices
41			Developing Competitive Edge -I
42			Managerial Aptitude - I
43			Organisation and Administration for Business
44			Human Values and Professional Ethics
45			Managing Equality & Diversity
46			Communication Techniques & Presentation Skills
47			Developing Competitive Edge -II
48			Managerial Aptitude - II
49	M.Sc. (Microbiology & Immunology)	1	Advanced Immunology
50	Pharmacy PhD (9440)	3	Advances in Pharmaceutical Sciences
51			Advances in Organic Chemistry
52			Approaches in Advanced Pharmacological Research
53	B.Tech II year (All Branches)	2	English for Professional Purposes I
54			English for Professional Purposes II
55	PhD in English	2	Approaches to Literary and Non-Literary Texts
56			Interpretation of literary /Non-Literary Texts


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List of New Courses Introduced During the Session 2017-18

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
1	Bachelor of Computer Applications	16	Introduction to Python
2			Programming in JAVA
3			Programming in Advanced Java
4			Advanced Java Lab
5			Web Technology Lab
6			Software Project Management
7			Introduction to Distributed System
8			Digital Marketing & Transformation
9			Digital Marketing Lab
10			Data Mining & Warehousing
11			Management Information System
12			Introduction to Big Data
13			Introduction to Cloud Computing
14			Software Testing
15			Introduction to Internet of Things
16			Cyber Security
17	Master of Computer Applications	3	Object Oriented Programming
18			Python Programming
19			Technical Writing
20	M.Tech. Electronics & Communication Engineering	2	HDL Programming Lab
21			RF and Microwave Design Lab
22	B.Tech.	2	Basic Electrical Engineering
23	Electrical Engineering/ Electrical & Electronics Engineering		Electrical Engineering Lab
24	B.Tech. Civil Engineering	4	Surveying and Geoinformatics
25			Surveying Laboratory
26			Geoinformatics Laboratory
27			Basic CAD Laboratory
28	BBA (H) 4700	9	Event Management
29			Developing Competitive edge - III
30			Managerial aptitude - III
31			Hospitality Management
32			Rural Management
33			International Business
34			Mass Communication
35			Developing Competitive edge-IV
36			Managerial Aptitude -IV
37	MBA-LSCM (8411)	24	Business Policy and Environment
38			Accounting For Managers
39			Managerial Economics
40			Management Concepts and Applications
41			Managerial Communication
42			Workshop on basics of Supply Chain Management
43			Computer Applications in Business Management
44			Managerial Aptitude - I
45			Legal Aspects of Business
46			Workshop on recent trends in Logistics and SCM
47			Cost and Managerial Accounting
48			Individual and Group Behavior in Organization
49			Business Research Methods
50			Statistical Analysis for Supply Chain Management
51			Management Information Systems and Applications
52			Managerial Aptitude - II
53			Finance for Manager
54			Management of Human Resource
55			Core Concepts of SCM
56			Optimization in Operations Research
57			Fundamentals of Marketing Management
58			Production and Operations Management
59			Logistics in Business Efficiency
60			Managerial Aptitude - III
61	B.Sc.(H) Biotechnology	1	Remedial Biology
62			Clinical Microbiology

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List of New Courses Introduced During the Session 2017-18

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
63	B.Sc (H) Biotechnology	5	Stem Cell Technology
64			Clinical Microbiology Lab
65			Role of Biotechnology in Forensic Science Lab
66			Enzymology Lab
67	M.Sc. (Biotechnology)	6	Clinical research in Medicinal Plants
68			Nutritional Biochemistry
69			Clinical Immunology
70			Drug Designing and Development
71			Clinical Research in Medicinal Plant Lab
72			Clinical Immunology Lab
73	M.Sc. (Microbiology & Immunology)	3	Animal cell Culture
74			Animal cell Culture Lab
75			Introduction to Gender & Women's studies
76	B. Pharm (BP 4400)	23	Human Anatomy and Physiology I- Theory
77			Pharmaceutical Analysis I – Theory
78			Pharmaceutics I – Theory
79			Pharmaceutical Inorganic Chemistry – Theory
80			Communication skills – Theory
81			Remedial Biology
82			Remedial Mathematics-Theory
83			Human Anatomy and Physiology I- Practical
84			Pharmaceutical Analysis I – Practical
85			Pharmaceutics I – Practical
86			Pharmaceutical Inorganic Chemistry – Practical
87			Communication skills – Practical
88			Remedial Biology- Practical
89			Human Anatomy and Physiology II – Theory
90			Pharmaceutical Organic Chemistry I – Theory
91			Biochemistry – Theory
92			Pathophysiology – Theory
93			Computer Applications in Pharmacy – Theory
94			Environmental sciences – Theory
95			Human Anatomy and Physiology II –Practical
96			Pharmaceutical Organic Chemistry I- Practical
97			Biochemistry – Practical
98			Computer Applications in Pharmacy – Practical
99	M. Pharm (Pharmaceutics) MPH 8444	11	Modern Pharmaceutical Analytical Techniques
100			Drug Delivery System
101			Modern Pharmaceutics
102			Regulatory Affair
103			Pharmaceutics Practical I
104			Molecular Pharmaceutics (Nanotech and Targeted DDS)
105			Advanced Biopharmaceutics & Pharmacokinetics
106			Advanced Biopharmaceutics & Pharmacokinetics
107			Computer Aided Drug Delivery System
108			Cosmetic and Cosmeceuticals
109			Pharmaceutics Practical II
110	M. Pharm (Pharmacology) MPL 8440	10	Modern Pharmaceutical Analytical Techniques
111			Advanced Pharmacology-I
112			Pharmacological and Toxicological Screening Methods-I
113			Cellular and Molecular Pharmacology
114			Pharmacology Practical-I
115			Advanced Pharmacology II
116			Pharmacological and Toxicological Screening Methods-II
117			Principles of Drug Discovery
118			Experimental Pharmacology practical- II
119			Pharmacology Practical II
120			Childhood & Growing Up
121			Contemporary India & Education
122			Language Across The Curriculum
123			Understanding Disciplines And Subjects
124			Drama, Art & Aesthetics


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List of New Courses Introduced During the Session 2017-18

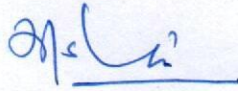
S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
125	Bachelor of Education	24	Health and Physical Education
126			Strengthening Language Proficiency
127			Understanding ICT and Its Application-I
128			Knowledge and Curriculum
129			Learning and Teaching
130			Pedagogy of Hindi
131			Pedagogy of English
132			Pedagogy of Sanskrit
133			Pedagogy of Science
134			Pedagogy of Biology
135			Pedagogy of Mathematics
136			Pedagogy of Social Science – I (History, Civics)
137			Pedagogy of Social Science – II (Economics, Geography)
138			Pedagogy of Commerce
139			Pedagogy of Home Science
140			Reading & Reflecting Text
141			Scouting & Guiding
142			Understanding ICT and Its Application-II
143			Yoga Education
144	Ph.D. (Education)	2	Philosophical and Sociological basis of Educational Research
145			Recent Development in India: Policy Directive and Programme
146	Ph.D Physics	1	Advanced Cosmology


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List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
1	B.Tech- Computer Science and Engineering	50	Engineering Physics
2			Engineering Chemistry
3			Engineering Physics Lab
4			Engineering Chemistry Lab
5			Engineering Mathematics I
6			English Language Skills for Communication I
7			Basic Electrical Engineering
8			Electronics Engineering
9			Computer Programming
10			English Language Lab I
11			Electrical Engineering Lab
12			Electronics Lab I
13			Engineering Drawing Lab
14			Computer Programming Lab
15			Engineering Mathematics II
16			English Language Skills for Communication II
17			Basic Mechanical Engineering
18			Python Programming
19			English Language Lab II
20			Engineering Workshop Practice Lab
21			Python Programming Lab
22			Object Oriented Programming
23			Database Management System
24			Operating Systems
25			Computer Organization
26			Data Structures and Algorithms
27			Introduction to Microprocessors
28			Computer Networks
29			Software Engineering
30			Discrete Mathematics
31			Object Oriented Programming Lab
32			Database Management System Lab
33			Operating Systems Lab
34			Computer Organization Lab
35			Data Structures and Algorithms Lab
36			Microprocessors Lab
37			Soft Skills – I
38			Soft Skills – II
39			Introduction to Cyber security
40			Disaster Management
41			Basic course in Entrepreneurship
42			Leadership and Organizational behaviour
43			English for professional purposes - I
44			English for professional purposes - II
45			Ethics & Values
46			Engineering Mathematics - III
47			Environmental Studies
48			Design and Analysis of Algorithm
49			Design and Analysis of Algorithm Lab
50			Compiler Design
51			Engineering Physics
52			Engineering Chemistry
53			Engineering Physics Lab
54			Engineering Chemistry Lab
55			Engineering Mathematics I
56			English Language Skills for Communication I
57			Basic Electrical Engineering
58			Electronics Engineering
59			Computer Programming
60			English Language Lab I
61			Electrical Engineering Lab
62			Electronics Lab I
63			Engineering Drawing Lab
64			Computer Programming Lab


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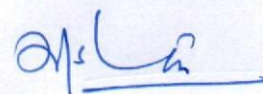
S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
65	B.Tech- Computer Science and Engineering (Cloud Computing and Virtualization)	63	Engineering Mathematics II
66			English Language Skills for Communication II
67			Basic Mechanical Engineering
68			Python Programming
69			English Language Lab II
70			Engineering Workshop Practice Lab
71			Python Programming Lab
72			Object Oriented Programming
73			Database Management System
74			Operating Systems
75			Computer Organization
76			Data Structures and Algorithms
77			Introduction to Microprocessors
78			Computer Networks
79			Software Engineering
80			Discrete Mathematics
81			Object Oriented Programming Lab
82			Database Management System Lab
83			Operating Systems Lab
84			Computer Organization Lab
85			Data Structures and Algorithms Lab
86			Microprocessors Lab
87			Soft Skills – I
88			Soft Skills – II
89			Introduction to Cyber security
90			Disaster Management
91			Basic course in Entrepreneurship
92			Leadership and Organizational behaviour
93			English for professional purposes - I
94			English for professional purposes - II
95			Ethics & Values
96			Engineering Mathematics - III
97			Environmental Studies
98			Design and Analysis of Algorithm
99			Design and Analysis of Algorithm Lab
100			Compiler Design
101			Introduction to Open Source Software & Open Standards
102			Web Programming through PHP
103			Introduction to IT Infrastructure Landscape
104			Introduction to Virtualization and Cloud Computing
105			Cloud Computing Architecture & Deployment Models
106			Business Process Management
107			Cloud Management
108			Cloud Security
109			Virtualization Lab
110			Cloud Deployment Lab
111			Business Process Management Lab
112			Cloud Management Lab
113			Cloud Security Lab
114			Engineering Physics
115			Engineering Chemistry
116			Engineering Physics Lab
117			Engineering Chemistry Lab
118			Engineering Mathematics I
119			English Language Skills for Communication I
120			Basic Electrical Engineering
121			Electronics Engineering
122			Computer Programming
123			English Language Lab I
124			Electrical Engineering Lab
125			Electronics Lab I
126			Engineering Drawing Lab
127			Computer Programming Lab
128			Engineering Mathematics II

List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
129	B.Tech-Computer Science and Engineering (Data Analytics)	66	English Language Skills for Communication II
130			Basic Mechanical Engineering
131			Python Programming
132			English Language Lab II
133			Engineering Workshop Practice Lab
134			Python Programming Lab
135			Object Oriented Programming
136			Database Management System
137			Operating Systems
138			Computer Organization
139			Data Structures and Algorithms
140			Introduction to Microprocessors
141			Computer Networks
142			Software Engineering
143			Discrete Mathematics
144			Object Oriented Programming Lab
145			Database Management System Lab
146			Operating Systems Lab
147			Computer Organization Lab
148			Data Structures and Algorithms Lab
149			Microprocessors Lab
150			Soft Skills – I
151			Soft Skills – II
152			Introduction to Cyber security
153			Disaster Management
154			Basic course in Entrepreneurship
155			Leadership and Organizational behaviour
156			English for professional purposes - I
157			English for professional purposes - II
158			Ethics & Values
159			Engineering Mathematics - III
160			Environmental Studies
161			Design and Analysis of Algorithm
162			Design and Analysis of Algorithm Lab
163			Compiler Design
164			Introduction to Open Source Software & Open Standards
165			Web Programming through PHP
166			Introduction to IT Infrastructure Landscape
167			Introduction to Business Analytics
168			Applied Statistical Analysis
169			Data Mining and Predictive Modeling
170			Data Warehouse & Multidimensional Modeling
171			Business Intelligence
172			Hadoop & Big Data Analytics
173			Social, Web & Mobile Analytics
174			Applied Statistical Analysis Lab
175			Data Mining Lab
176			Data Warehouse Lab
177			Business Intelligence Lab
178			Hadoop & Big Data Analytics Lab
179			Social, Web & Mobile Analytics Lab
180	B.Tech-Computer Science and Engineering (Cyber Security and Forensics)	24	Engineering Mathematics I
181			Engineering Physics
182			Engineering Physics Lab
183			English Language Skills for Communication – I
184			Electrical Engineering
185			Python Programming
186			Information Security Fundamentals
187			Engineering Chemistry
188			Engineering Chemistry Lab
189			English Language Lab – I
190			Electrical Engineering Lab
191			Engineering Drawing Lab
192			Python Programming Lab

List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
193			Engineering Mathematics II
194			C PROGRAMMING
195			English Language Skills for Communication – II
196			Electronics Engineering
197			Basic Mechanical Engineering
198			IT Systems Security and Physical Security
199			C PROGRAMMING Lab
200			English Language Lab – II
201			Electronics Lab I
202			Engineering Workshop Practice Lab
203			IT Systems Security and Physical Security Lab
204	B.Tech-Computer Science and Engineering (Internet of Things)	22	Engineering Mathematics I
205			Engineering Chemistry
206			English Language Skills for Communication – I
207			Electrical Engineering
208			Computer Programming
209			Introduction to Internet of Things
210			Engineering Chemistry Lab
211			English Language Lab – I
212			Electrical Engineering Lab
213			Engineering Drawing Lab
214			Computer Programming Lab
215			Engineering Mathematics II
216			Engineering Physics
217			English Language Skills for Communication – II
218			Electronics Engineering
219			Basic Mechanical Engineering
220			Sensor Technology & Instrumentation
221			Engineering Physics Lab
222			English Language Lab – II
223			Electronics Lab I
224			Engineering Workshop Practice Lab
225			Sensor Technology & Instrumentation Lab
226	Bachelor of Computer Applications	18	Programming Logic Using 'C'
227			Fundamentals of Computer and IT
228			Introduction of Logical Circuit and Digital Design
229			Remedial English
230			Mathematics –I
231			Programming Lab
232			Information Technology Lab
233			Soft Skills – I
234			Data Structures using 'C'
235			Fundamental of Database Management System
236			Fundamentals of Operating Systems
237			Management Concepts & Practices
238			Mathematics –II
239			Data Structures using 'C' Lab
240			Database Management System Lab
241			Operating System Lab
242			English in Practice
243			Soft Skills – II
244			Fundamentals of Information Technology
245			Computer Programming
246			Computer Organization
247			Discrete Mathematics
248			Theory of Automata & Formal Language
249			Introduction to Microprocessors
250			Object Oriented Programming
251			Data Structures
252			Database Management System
253			Operating Systems
254			Computer Networks
255			Software Engineering
256			Design and Analysis of Algorithm



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List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
257	Master of Computer Applications	27	Web Technology
258			Distributed Systems
259			Fundamentals of Information Technology Lab
260			Computer Programming Lab
261			Computer Organization Lab
262			Microprocessors Lab
263			Problem Solving Lab
264			Object Oriented Programming Lab
265			Data Structures Lab
266			Database Management System Lab
267			Operating System Lab
268			Web Technology Lab
269			Soft Skills-I
270			Soft Skill-II
271	M.Tech-Computer Science and Engineering	15	Theory of Computation
272			Software Engineering Methodologies
273			Advanced Concepts in Data Mining
274			Advanced Concepts in Networking
275			Probability and Stochastic Processes
276			Problem Solving Lab - I
277			Mobile Ad-hoc Networks
278			Intelligent Systems
279			Information Retrieval
280			Image Processing and Analysis
281			Design of Distributed Systems
282			Seminar-I
283			Seminar-II
284			Problem Solving Lab - II
285			Image Processing and Analysis Lab
286	Ph.D (Computer Applications)	1	Research Methodology
287	Ph.D (Computer Science and Engineering)	1	Research Methodology
288	B.Tech.Electronics & Communication Engineering	52	Engineering Mathematics-I
289			Engineering Physics
290			Engineering Physics Lab
291			Engineering Mathematics-II
292			Engineering Chemistry
293			Engineering Chemistry Lab
294			Basic Mechanical Engineering
295			English Language Skills for Communication – I
296			Electronics Engineering
297			Electronics Lab-I
298			Electronics Simulation Lab
299			Engineering Workshop Practice Lab
300			Engineering Drawing
301			Computer Programming
302			English Language Lab I
303			Basic Electrical Engineering
304			English Language Skills for Communication-II
305			Electrical Engineering Lab
306			Computer Programming Lab
307			English Language Lab – II
308			Digital Electronics
309			Digital Electronics Lab
310			Engineering Mathematics-III
311			Network Analysis and Synthesis
312			Electromagnetic Field Theory
313			Solid State Devices and Circuits
314			Signals and Systems
315			Microprocessors and Applications
316			Microprocessors Lab
317			Analog Integrated Circuits
318			Electronics Lab-II
319			Control Systems
320			Control Systems Lab


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
321			Communication Engineering
322			Communication Engineering Lab
323			Digital Communication
324			Digital Communication Lab
325			Digital Signal Processing
326			Digital Signal Processing Lab
327			VLSI Design
328			CAD of Electronics Lab
329			Random Variables and Stochastic Processes
330			Antenna & Wave Propagation
331			Soft Skills-I
332			English for Professional Purposes-I
333			Data Structures and Applications
334			Data Structures and Applications lab
335			Soft Skills-II
336			English for Professional Purposes-II
337			Mini Project-I
338			Environmental Studies
339			Ethics and Values
340		15	Adaptive Signal Processing
341			Communication Techniques
342			CMOS Analog IC Design
343			Digital Hardware Design
344			Image Processing
345			Signal Processing Lab
346			Communication Lab
347			Low Power VLSI Design
348			Intelligent Systems and Control
349			RF and Microwave Techniques
350			HDL Programming Lab
351			RF and Microwave Design Lab
352			Minor Project
353			Information Theory and Coding
354			Seminar
355	PhD Electronics & Communication Engineering	1	Research Methodology
356	B.Tech. Electrical Engineering	27	Basic Mechanical Engineering
357			Engineering Drawing
358			Electrical Simulation Lab
359			English Language Lab I
360			Computer Programming
361			Electronics Engineering
362			Electrical Technology
363			Electrical technology Lab
364			Electronics Lab – I
365			Computer programming lab
366			Engineering Mathematics – I
367			English Language Skills For Communication I
368			Engineering Physics
369			Engineering Physics Lab
370			Engineering Mathematics – II
371			English Language Skills For Communication – II
372			Engineering Chemistry
373			English Language Lab – II
374			Engineering Chemistry Lab
375			English For Professional Purposes - I
376			Engineering Mathematics – III
377			Soft Skills-I
378			Basic Course in Entrepreneurship
379			English For Professional Purposes – II
380			Soft Skills-II
381			Environmental Studies
382			Ethics and values
383			Field Theory & Applications
384			Basic System Analysis


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List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
385	B.Tech. Electrical Engineering	17	Engineering Circuit Analysis & Synthesis
386			Electrical Measurement & Measuring Instruments
387			Analog Integrated Circuit
388			Digital Electronics & Circuits
389			Electrical Machines – I
390			Electrical Machines – II
391			Control System
392			Network Lab
393			Electrical Measurement Lab
394			Analog & Digital Electronics Lab
395			Electrical Machines Lab – I
396			Electrical Machines Lab – II
397			Control System Lab
398			Electrical Machine & Automatic Control
399			Electrical Machines & Automatic Control Lab
400	M.Tech. Electrical Engineering	18	Computer Aided Power system analysis
401			Power system Dynamics & Control
402			Advanced Electric Drives
403			Power Electronic Devices & Converters
404			Optimization Techniques
405			Advanced Simulation Lab.
406			Analog & digital control system
407			Advanced Power System Operation & Control
408			Microcontroller and Application
409			Minor Project
410			HVDC Transmission & Flexible AC transmission systems
411			Solid State Control of Electric Drives
412			Power electronic circuit modeling & Simulation
413			Electrical Insulation in Power apparatus & systems
414			Power system Transients
415			Advanced Protective Relaying
416			Advanced Power Electronics
417			Power quality and conditioning
418	PhD Electrical Engineering	3	Power System Dynamics
419			Optimization Techniques
420			Research Methodology
421	B.Tech ME	22	Applied Mechanics
422			Applied Mechanics Lab
423			Engineering Drawing
424			Engineering Workshop Practice Lab
425			Computer Programming
426			Basic Electrical
427			Electronics Engineering
428			Electronics Lab I
429			English Language Skills for Communication – I
430			English Language Lab – I
431			Computer Programming Lab
432			Electrical Simulation lab
433			English Language Lab - II
434			Computer aided drafting lab
435			Basic Mechanical Engineering
436			Engg. Mathematics I
437			Engineering physics
438			Engineering Chemistry
439			Engineering physics lab
440			Engineering Chemistry lab
441			Engg. Mathematics II
442			Electrical Engineering lab
443			Measurement and Metrology
444			Manufacturing Science -I
445			Applied Thermodynamics
446			Kinematics of Machine
447			Measurement & Metrology Lab
448			Manufacturing Science -I Lab

List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
449	B.Tech ME	29	Machine Drawing Lab
450			Soft Skills- II
451			Fluid Machinery
452			Fluid Machinery Lab
453			Fluid Mechanics
454			Material Science
455			Strength of MaterialsB
456			Fluid Mechanics Lab
457			Materials Science & Testing Lab
458			Electrical Machines & Automatic Control
459			Electrical Machines & Automatic Control Lab
460			Soft Skills – I
461			Dynamics of Machine
462			Theory of Machine Lab
463			English for professional purpose I
464			English for professional purpose IIBELH 0004
465			Ethics and values
466			Engineering Mathematics – III
467			Industrial Management
468			Six Sigma & Applications
469			Project Management
470			Smart Materials
471			Environment studies
472	M.Tech ME (Production)	11	Computer Aided Manufacturing (CAM)
473			Simulation,Modeling and Analysis
474			Simulation,Modeling and Analysis Lab
475			Advanced Production Technology
476			Optimization for Engineering Design
477			Finite Element Method (FEM)
478			Finite Element method Lab (FEM)
479			Industrial Tribology
480			Theory of Elasticity and plasticity
481			Machine tool Design
482			Interfacial Tribology
483	M. Tech ME (Design)	11	Computer Aided Manufacturing (CAM)
484			Simulation,Modeling and Analysis
485			Simulation,Modeling and Analysis Lab
486			Advanced Production Technology
487			Optimization for Engineering Design
488			Finite Element Method (FEM)
489			Finite Element method Lab (FEM)
490			Industrial Tribology
491			Theory of Elasticity and plasticity
492			Machine tool Design
493			Interfacial Tribology
494	Ph.D ME	15	Competitive Manufacturing Strategies and Group Technology
495			Numerical Techniques and Soft Computing
496			Metal Working Tribology
497			Production Toolings
498			Accuracy Inspection and Measurements
499			Value Engineering & Cost Control
500			Optimization Techniques
501			Advanced Mechanics of Solids
502			Nano Technology & its Applications
503			Reliability & Maintenance
504			Advanced Heat Transfer Processes
505			Composite Materials & its Applications
506			Advanced Welding Processes And Applications
507			Industrial Automation and Robotics
508			Research Methodology
509			Engineering Mathematics I
510			Engineering Chemistry
511			Engineering Physics
512			English Language Skills forCommunication - I


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List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
513	B.Tech. Civil Engineering	46	Basic Mechanical Engineering
514			Engineering Mathematics II
515			English Language Skills for Communication - II
516			Basic Electrical Engineering
517			Fundamental of Mechanics
518			Engineering Physics Laboratory
519			English Language Laboratory - I
520			Engineering Workshop Practice Laboratory
521			Engineering Chemistry Laboratory
522			English Language Laboratory - II
523			Electronics Laboratory
524			Electrical Engineering Laboratory
525			Computer Programming Laboratory
526			Environmental Studies
527			English for Professional Purposes -I
528			Engineering Mathematics
529			Computer Programming
530			Soft Skills-I
531			English for Professional Purposes -II
532			Soft Skills-II
533			Ethics & Values
534			Mechanics of solids
535			Structural analysis
536			Concrete Structure
537			Steel Structure
538			Quantity Surveying and Estimation
539			Geoinformatics
540			Mechanics of fluid
541			Open channel hydraulics
542			Water Resources Engineering
543			Geotechnical Engineering
544			Transportation Engineering
545			Environmental Engineering
546			Fluid Mechanics Laboratory
547			Structural analysis Laboratory
548			Structural Detailing Laboratory
549			CAD Laboratory
550			Geotechnical Engineering Laboratory
551			Transportation Engineering Laboratory
552			Industrial pollution control And Environmental Audit
553			Environmental Engineering Laboratory
554			Channel Hydraulics Laboratory
555	M.Tech. Civil Engineering (Structural Engineering)	23	Advanced Mechanics Of Solids
556			Advanced Structural Analysis
557			Advanced Design Of Metal Structures
558			Numerical Analysis And Computer Programming
559			Structural Dynamics
560			Finite Element Method
561			Design Of Prestress Concrete Structures
562			Cad Laboratory-I
563			Advanced Concrete Design
564			Earthquake Resistant Design
565			Advanced Concrete Technology
566			Concrete Technology Laboratory
567			Advance Concrete Technology
568			Non-Conventional Construction Materials & Elements
569			High Rise Structures
570			Durability Assessment And Structural Strengthening Of Reinforced Concrete
571			Experimental Stress Analysis
572			Optimization Methods In Civil Engineering
573			Soil Structure Interaction
574			Theory Of Plates And Shells
575			Retrofitting Of Structures
576			Soft Computing Methods For Civil Engineering

List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
577	Ph.D. Civil Engineering	3	Design Of Offshore And Marine Structures
578			Non Conventional Construction Materials & Elements
579			Advanced Concrete Technology
580	BA (H) Eco 4800	8	Research Methodolgy
581			Indian Economic Policy
582			Fundamentals of Indian Economy-I
583			Competitive Aptitude - I
584			Practical on Economic Aspects - I
585			Fundamentals of Indian Economy-II
586			Competitive Aptitude - II
587			Practical on Economic Aspects - II
588	BBA (FB) 4600	10	Remedial English
589			Economics for Managers
590			Quantitative Aspects of Business
591			Business Organization
592			Practical on Technological Aspects of Business
593			Business Wisdom-I
594			Analysis & Design of Business System
595			Accounting for Managers
596			Management Concepts & Practices
597			Organizational Behavior
598	BBA 4100	11	Business Wisdom-II
599			Management Concepts & Practices
600			Fundamentals of Accounting
601			Managerial Economics
602			Fundamentals of Computer & Data Handling
603			Business Acumen - I
604			Organizational Behaviour
605			Management Accounting
606			Business Ethics & Values
607			Remedial English
608			Practical on Computer Application
609	BBA (H) 4700	10	Business Acumen - II
610			Developing Competitive Edge - I
611			Managerial Aptitude - I
612			Organisation and Administration for Business
613			Managing Equality & Diversity
614			Human Values and Professional Ethics
615			Developing Competitive Edge - II
616			Managerial Aptitude - II
617			Economic Concepts & Practices
618			Human Values & Professional Ethics
619	B.Com. (H) 4500	12	Essentials of Management
620			Essentials of Accounting
621			Micro Economics
622			Business Communication and Commercial Knowledge
623			Business Organization & Management
624			Advanced Accounting
625			Mercantile Law
626			Environmental Studies
627	B.Com. (H) with GA 4501	12	Practical on Computer Applications in Accounting
628			Principle and Practices of Accounting
629			Principles of Marketing
630			Business Economics and Commercial Knowledge
631			Fundamentals of Management Accounting
632			Practical on Computer Application in Commerce
633			Commercial Aptitude - I
634			Advanced Financial Accounting
635			Commercial Aspects of Information Technology
636			Essentials of E-Commerce
637			Accounting using Tally
638			Commercial Aptitude - II
639			Essentials of Management
640			Business Environment


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List of New Courses Introduced During the Session 2018-19

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
641	MBA Dual (8410)	23	Financial Accounting
642			Micro Economics
643			Principles and Practices of Management
644			Quantitative Techniques
645			Computer Applications in Management
646			Managerial Aptitude - I
647			Business Law
648			Macro Economics
649			Cost and Management Accounting
650			Organizational Behaviour
651			Research Methodology
652			Business Statistics
653			Managerial Aptitude – II
654			Financial Management
655			Human Resource Management
656			International Business Management
657			Operations Research
658			Marketing Management
659			Operations Management
660			Business Analytics
661			Fundamentals of Banking and Insurance
662			Managerial Aptitude – III
663	MBA-LSCM (8411)	39	Business Policy and Environment
664			Accounting For Managers
665			Managerial Economics
666			Management Concepts and Applications
667			Managerial Communication
668			Workshop on basics of Supply Chain Management
669			Computer Applications in Business Management
670			Managerial Aptitude – I
671			Legal Aspects of Business
672			Workshop on recent trends in Logistics and SCM
673			Cost and Managerial Accounting
674			Individual and Group Behavior in Organization
675			Business Research Methods
676			Statistical Analysis for Supply Chain Management
677			Management Information Systems and Applications
678			Managerial Aptitude – II
679			Finance for Manager
680			Management of Human Resource
681			Core Concepts of SCM
682			Optimization in Operations Research
683			Fundamentals of Marketing Management
684			Production and Operations Management
685			Logistics in Business Efficiency
686			Managerial Aptitude – III
687			Ethics and Governance in Business#
688			Corporate Strategic Management#
689			International Business#
690			Recent Trends in SCM
691			Strategic and Operational issues in SCM
692			Supply Chain Performance Metrics & Modeling
693			Global Trade Operations & Forwarding
694			Liner Shipping Business
695			Summer Internship Report#
696			Managerial Aptitude – IV#
697			Term assignment-I (evaluated by Industry mentor)
698			On-going Project presentation
699			Comprehensive Viva Voce
700			Dissertation Report and Viva
701			Term assignment –II (evaluated by Industry mentor)
702			Business Environment & Management Practices
703			Financial Accounting
704			Financial and Securities Markets


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
705	MBA FMB		Marketing of Securities and Banking Services
706			Computer Applications in Management
707			HR Practices in Banking and Financial Services
708			Managerial Aptitude - I
709			Macro Economics
710			Cost & Management Accounting
711			Commercial Bank Management
712			Research Methods and Data Analytics
713			Business Analytics & Financial Modelling
714			Legal & Regulatory Environment for Banking & Financial Services
715			Managerial Aptitude - II
716			Retail Banking
717			Operations Research
718			Financial Management
719			Securities Operations & Risk Management
720			Personal Financial Planning & Wealth Management
721			Investment and Portfolio Management
722			Managerial Aptitude - III
723	B.Sc.(H) Biotechnology	15	Chemistry I
724			Cell Biology
725			Remedial English
726			Biostatistics
727			Remedial Biology
728			Biomolecules
729			Chemistry II
730			Environmental Science
731			Computer Fundamentals and Applications
732			Chemistry I Lab
733			Cell Biology Lab
734			Environmental Biotechnology Lab
735			Biomolecules Lab
736			Chemistry II Lab
737			Computer Application in Biotechnology Lab
738	M.Sc. (Biotechnology)	16	Advanced Biostatistics
739			Biochemistry
740			Cell Biology
741			Bioinformatics
742			Biophysical Techniques
743			Biostatistics & Biochemistry Lab
744			Bioinformatics Lab
745			Biophysical Techniques & Cell Biology Lab
746			Immunology
747			Genetics & Molecular Biology
748			Microbiology
749			Environmental Biotechnology
750			Introduction to Gender & Women's studies
751			Microbiology Lab
752			Immunology Lab
753			Genetics and Molecular Biology Lab
754	M.Sc. (Microbiology & Immunology)	7	General Microbiology
755			General Microbiology & Biostatistics Lab
756			Biochemistry & Biophysical Techniques Lab
757			Systemic Bacteriology and Mycology
758			Systemic Virology
759			Bacteriology & Mycology Lab
760			Genetics, Molecular Biology and Virology Lab
761			Pharmaceutical Organic Chemistry II – Theory
762			Physical Pharmaceutics I – Theory
763			Pharmaceutical Microbiology – Theory
764			Pharmaceutical Engineering – Theory
765			Pharmaceutical Organic Chemistry II – Practical
766			Physical Pharmaceutics I – Practical I
767			Pharmaceutical Microbiology – Practical
768			Pharmaceutical Engineering –Practical


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
769	B. Pharm (BP 4400)	17	Pharmaceutical Organic Chemistry III- Theory
770			Medicinal Chemistry I – Theory
771			Physical Pharmaceutics II – Theory
772			Pharmacology I – Theory
773			Pharmacognosy and Phytochemistry I- Theory
774			Medicinal Chemistry I – Practical
775			Physical Pharmaceutics II – Practical
776			Pharmacology I – Practical
777			Pharmacognosy and Phytochemistry I – Practical
778	M. Pharm (Pharmaceutics MPH 8444)	3	Research Methodology and Biostatistics
779			Journal club
780			Discussion / Presentation (Proposal Presentation)
781	M. Pharm (Pharmacology MPL 8440)	3	Research Methodology and Biostatistics
782			Journal club
783			Discussion / Presentation (Proposal Presentation)
784	PhD (9440)	2	Research Methodology
785			Pharmacognosy & Phytochemistry
786	Bachelor of Arts LLB (Hons.)	12	Constitution of India-I
787			Law of Torts-Including MV and Consumer Protection Laws
788			Essentials of Sociology-I
789			Legal History-I
790			Political Science-I
791			General English
792			Constitution of India-II
793			Sociology-II
794			General English-II
795			Legal Language & Communication Skills
796			Western & Indian Political Thoughts
797			Development of legal & Judicial System in India
798	B.Com. LLB (Hons.)	11	Constitution of India-I
799			Law of Torts-Including MV and Consumer Protection Laws
800			Principles of Management
801			Financial Accounting
802			General English-I
803			Constitution of India-II
804			Management Accounting
805			Auditing
806			Business Statistics
807			Legal Language & Communication Skills
808			General English-II
809	Bachelor of Education	12	School Internship
810			Creating an Inclusive School
811			Gender, School & Society
812			Assessment for Learning
813			Environmental Education
814			Peace Education
815			Population Education
816			School Administration and Management
817			Value Education
818			Soft Skills & Personality Development
819			Understanding ICT and Its Application-III
820			Working with Community
821	Ph.D Physics	3	Advanced Nuclear Physics - I
822			Advanced Nuclear Physics - II
823			Research Methodology
824	B.Sc. Chemistry	18	Physical Chemistry - I
825			General Chemistry-I
826			Algebra & Calculus
827			Ancillary Physics Course-I
828			English Language Skills-I
829			Fundamentals of Computers
830			Physics Lab - I
831			Chemistry Lab-I
832			Fundamentals of Computer Lab


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
833	B. Sc. Chemistry	10	Organic Chemistry-I
834			General Chemistry-II
835			Advanced Mathematics and Statistics
836			Ancillary Physics Course-II
837			English Language Skills-II
838			Introduction to Programming
839			Physics Lab - II
840			Chemistry Lab-II
841			Programming Lab
842	M. Sc. Chemistry	15	Inorganic Chemistry -I
843			Organic Chemistry-I
844			Physical Chemistry-I
845			Analytical Chemistry
846			Mathematics for Chemists
847			Biology for Chemists
848			Advanced Chemistry Lab
849			Inorganic Chemistry-II
850			Organic Chemistry-II
851			Physical Chemistry-II
852			Spectroscopy-I
853			Physical Chemistry Lab
854			Inorganic Chemistry Lab-I
855			Organic Chemistry Lab-I
856	Ph. D. Chemistry	3	Recent Advances in Chemistry
857			Spectroscopic and Analytical Techniques
858			Research Methodology
859	P.hD. (Mathematics) (9210)	5	Computer Skills, Tensor and Riemannian Geometry
860			Relativity and Cosmology
861			Inventory Modeling
862			Partial Differential Equations : Methods & Applications
863	BA LLB/B.Com LLB I year	2	Research Methodology
864			General English I
865	Open Electives (English)	4	General English II
866			Introduction to Bhagwad Gita
867			Glimpses of Indian Literature: Classical to Colonial
868			Introduction to Gender and Women's Studies
869			Introduction to General Linguistics


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
1	B.Tech-Computer Science and Engineering	47	Theory of Automata & Formal Language
2			Network Programming and Management
3			Principles of Mobile Computing
4			Ad Hoc Networks
5			Cyber security and Digital Forensics
6			Information Coding Techniques
7			Network Programming and Management Lab
8			Information Coding Techniques Lab
9			Software Project Management
10			Software Testing
11			Computer Graphics And Multimedia
12			Artificial Intelligence
13			Machine Learning
14			Machine Learning And Its Applications
15			Machine Learning Lab
16			Machine Learning Project
17			Introduction to Big Data Analytics
18			Internet of Things
19			Internet of Things And Its Applications
20			Parallel Algorithms
21			Cloud Computing
22			Cloud Computing and Virtualization
23			Internet of Things Lab
24			Parallel Algorithms Lab
25			Cloud Computing lab
26			Internet of Things Project
27			Cloud Computing And Virtualization Project
28			Full Stack Using Scripting Technologies
29			Full Stack Using Node JS
30			Full Stack Using C#.net
31			PHP - Scripting Language
32			Digital Marketing And Transformation
33			Full Stack Using Scripting Technologies Lab
34			Full Stack Using Node JS Lab
35			Full Stack Using C#.net Lab
36			PHP - Scripting Language Lab
37			Full Stack Using Scripting Technologies Project
38			Full Stack Using Node JS Project
39			Full Stack Using C#.net Project
40			PHP - Scripting Language Project
41			Mini Project - I
42			Mini Project - II
43			Industrial Training
44			Introduction to Bhagavad Gita
45			Soft Skills - III
46			Soft Skills - IV
47			Environmental Studies
48	B.Tech-Computer Science and Engineering (Cloud Computing and Virtualization)	9	Theory of Automata & Formal Language
49			Industrial Management
50			Mini Project - I
51			Mini Project - II
52			Industrial Training
53			Introduction to Bhagavad Gita
54	B.Tech-Computer Science and Engineering (Data Analytics)	8	Soft Skills - III
55			Soft Skills - IV
56			Environmental Studies
57			Theory of Automata & Formal Language
58			Mini Project - I
59			Mini Project - II
60			Industrial Training
61			Introduction to Bhagavad Gita
62			Soft Skills - III
63			Soft Skills - IV
64			Environmental Studies
65			IT Business Continuity and Disaster Recovery
66			Digital Forensics
67			Ethical Hacking and Penetration Testing
68			IT Application and Data Security
69			IT Network Security
70			Information Security Audit and Monitoring

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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
71	B.Tech-Computer Science and Engineering (Cyber Security and Forensics)	13	Cloud Architecture and Deployment Models
72			IT Application and Data Security Lab
73			IT Network Security Lab
74			Information Security Audit and Monitoring Lab
75			Cloud Architecture and Deployment Models Lab
76			Digital Forensics lab
77			Ethical Hacking and Penetration Testing Lab
78	B.Tech-Computer Science and Engineering (Internet of Things)	2	Wireless Sensor Networks & IoT Standards
79			Wireless Sensor Networks & IoT Standards Lab
80	B.Tech-Computer Science and Engineering (Artificial Intelligence and Machine Learning)	1	Introduction to Artificial Intelligence
81	Bachelor of Computer Applications	19	Object Oriented Programming
82			Computer Organization & Architecture
83			Discrete Structure & Graph Theory
84			Introduction to Python
85			Environmental Studies
86			Object Oriented Programming Lab
87			Python Programming Lab
88			Effective Communication and Personality Development
89			System Design & Software Engineering
90			Computer Networks & Communication
91			Programming in JAVA
92			GUI based Programming Using Visual Basic
93			Optimization Methods
94			Visual Basic Programming Lab
95			Programming in Java Lab
96			Mini Project – I
97			Soft Skills III
98			Soft Skills IV
99			Professional Communication & Behavioral Grooming
100	Master of Computer Applications	38	Principles of Mobile Computing
101			Ad Hoc Networks
102			Cryptography & Network Security
103			Cyber security and Digital Forensics
104			Agile Software Development
105			Software Project Management
106			Service Oriented Architecture
107			Management Information System
108			E-Commerce
109			Digital Image Processing
110			Introduction to Machine Learning
111			Soft Computing
112			Artificial Intelligence
113			Digital Image Processing Lab
114			Machine Learning Lab
115			Data Mining and Warehousing
116			Business Intelligence
117			Information Retrieval System
118			Big Data and Analytics
119			Internet of Things
120			Cloud Computing
121			Big Data and Analytics Lab
122			Internet of Things Lab
123			Cloud Computing Lab
124			.Net Framework using C#
125			Mobile Application Development
126			Digital Marketing and Transformation
127			Object Oriented Programming Using C++
128			Python Programming Lab
129			.Net Framework Lab
130			Mobile Application Development Lab
131			Object Oriented Programming Lab
132			Mini Project-I
133			Mini Project-II
134			Ethics & Values
135			Accounting & Financial Management
136			Soft Skills-III
137			Soft Skills-IV
138			Computer Vision
139			Wireless Sensor Networks
140			Software and Service Oriented Architecture


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List of New Courses Introduced During the Session 2019-20

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
141	M.Tech-Computer Science and Engineering	9	Pattern Recognition
142			High Performance Computing
143			Web Mining
144			Machine Learning
145			Dissertation I
146			Dissertation II
149	Ph.D (Computer Science and Engineering)	1	Research and Publication Ethics
151	Ph.D (Computer Applications)	1	Research and Publication Ethics
152	B.Tech. Electronics & Communication Engineering	69	Simulation Lab-II
153			Data Communication and Networks
154			Microwave Engineering
155			Microwave Lab
156			Optical Communication
157			Optical communication Lab
158			Wireless Communication
159			Information Theory & Coding
160			Multicarrier Communication
161			Multicarrier Communication Lab
162			Multicarrier Communication Projects
163			Spread Spectrum System
164			Satellite Communication
165			Long Term Evolution
166			Fundamentals of Digital Image Processing
167			Digital Image Processing
168			Digital Image Processing Lab
169			Digital Image Processing Project
170			Bio-Medical Image Processing
171			Analog Signal Processing
172			Adaptive Signal Processing
173			Bio-Medical Signal Processing
174			Bio-Medical Signal Processing Lab
175			Speech Processing
176			Speech Processing Lab
177			Fundamentals of HDL Programming
178			Digital System Design using HDL
179			Digital System Design using HDL LAB
180			Digital System Design using HDL PROJECT
181			Analog VLSI Design
182			VLSI Testing And Testability
183			Integrated Circuit Technology
184			Fundamentals of Low-Power VLSI Circuits and Systems
185			Low-Power VLSI Circuits and Systems
186			Low-Power VLSI Circuits and Systems Lab
187			Low-Power VLSI Circuits and Systems Project
188			Fundamentals of RF Integrated Circuits
189			RF Integrated Circuits
190			RF Integrated Circuits Lab
191			RF Integrated Circuits Project
192			Micro and Nano devices
193			Electronic Instruments and Measurements
194			Microcontrollers and Embedded Systems
195			Embedded Systems Design
196			Embedded Systems Lab
197			Embedded Systems Project
198			Intelligent System
199			Industrial Process Control
200			Industrial Process Control Lab
201			Industrial Process Control Project
202			Digital Control System
203			Modern control system
204			Industrial Automation
205			PLC Automation Lab
206			Adaptive Control
207			Mini Project-II
208			Mini Project-III
209			Industrial Training
210			Industrial & Management
211			Soft Skills-III
212			Soft Skills-IV
213			Introduction to Object Oriented Programming


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
214	M.Tech. Electronics & Communication Engineering	14	Introduction to Object Oriented Programming Lab
215			Essentials of Information Technology
216			Information Technology Lab
217			Mechatronics
218			Introduction to Internet of Things
219			IOT Communication & Standard Interface
220			Industrial Management
221			Embedded Systems
222			Application Specific Integrated Circuits
223			Optimal Control System
224			Satellite Communication
225			Advanced Data Network
226			Speech Processing
227			CMOS RF Integrated Circuits
228	B.Tech. Electrical Engineering	53	Optoelectronic Devices
229			VLSI Testing and Testability
230			Biomedical Signal Processing
231			Wireless Communication and Networks
232			Dissertation-I
233			Dissertation- II
234			CAD for VLSI Circuits
235			Elements Of Power System
236			Power System Analysis
237			Power Electronics
238			Microprocessor & Its Applications
239			Power System Lab
240			Power Electronics Lab
241			Microprocessor Lab
242			Non-Conventional Energy Resources
243			Introduction to Renewable Energy Technologies
244			Design & Installation of Solar PV System
245			Solar Energy Systems
246			Solar Energy Systems Lab
247			Design & Installation of Solar PV System Lab
248			Design & Installation of Solar PV System Project
249			Electrical Engineering Materials
250			Electric Drives
251			Special electric Machines
252			Electric Vehicles
253			utilization of electric power & traction
254			Electric Drives Lab
255			Computer Aided Electric Machine Design Lab
256			Electric Vehicles Project
257			Sensors & Transducers
258			Illumination Science & Engineering
259			PLC & SCADA
260			Advance Control System
261			Process Control & Advanced Instrumentation
262			Digital Control System
263			Process Control & Advanced Instrumentation Lab
264			PLC & SCADA Lab
265			PLC & SCADA Project
266			Electrical Power Generation
267			Switch Gear & Protection
268			Intelligent Techniques In Electrical Engineering
269			Computer Methods in Power Systems
270			High Voltage Engineering
271			Power System Operation & Control
272			Smart Grid
273			Power System Dynamics & Stability
274			Switch Gear & Protection Lab
275			Intelligent Techniques In Electrical Engineering Lab
276			Computer Methods in Power Systems Lab
277			Digital Signal Processing
278			Biomedical Signal Processing
279			Soft Skills-III
280			Soft Skills-IV
281			Computer Aided Electric Machine Design
282			Leadership & organizational Behavior (MNG)
283			Introduction to Cyber Security (MNG)


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
284	M.Tech. Electrical Engineering	15	Analog & Digital Communication
285			Medical Image Processing
286			Medical Image Processing Lab
287			Industrial Management
288			Seminar
289			Advance Protective Relaying
290			Dissertation-I
291			Dissertation-II
292			Introduction To Hybrid & Electric Vehicles
293			High performance AC Drives
294			Renewable & Distributed generation systems
295			Industrial drives & Automation
296			Smart grid and phasor Measurement Techniques
297			EHV/UHV power transmission engineering
298			Power System Restructuring & Deregulation
299			Power system Planning & Reliability
300	PhD Electrical Engineering	4	Industrial drives & Automation
301			EHV/UHV power transmission engineering
302			Power system Planning & Reliability
303			Advanced Power Electronics
304	B.Tech ME	28	Renewable & Distributed Generation Systems
305			Computer Aided Power System Analysis
306			Optimization Techniques
307			Internal Combustion Engine
308			Machine Design -II
309			Refrigeration and Air Conditioning
310			Machine Design - II Lab
311			Refrigeration and Air Conditioning Lab
312			Soft Skills - IV
313			Operations Research
314			Industrial Engineering
315			Manufacturing Science II
316			Machine Design-I
317			Heat & Mass Transfer
318			Manufacturing Science II Lab
319			Machine Design II Lab
320			Automobile Engineering
321			Soft Skills - III
322			Solar energy
323			solar energy lab
324			PROJECT BASED SOLAR ENERGY LAB
325			Welding Science & Technology
326			Welding Science & Technology Lab
327			Composite Materials
328			Mini Project I
329			Mini Project II
330			Industrial Training I
331			Industrial Training II
332			Advance Material Science
333	M.Tech (Production)	15	Non-Conventional Energy Resources
334			Automobile Engineering Lab
335			Energy Conservation and Management
336			Industrial Automation & Robotics
337			Supply Chain Management
338			Colloquium
339			Dissertation - I
340			Rapid prototyping and tooling
341			Design of Production Tooling
342			Reliability and maintenance
343			Advanced Machining
344			Nanotechnology and its Applications
345			Computer-Based Numerical Techniques and Soft Computing
346			Micro Manufacturing
347			Technology of Competitive Manufacturing
348			Concurrent Engineering
349			Dissertation - II
350			Energy Conservation and Management
351			Industrial Automation & Robotics
352			Supply Chain Management
353			Colloquium


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List of New Courses Introduced During the Session 2019-20

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
354	M.Tech (Design)	15	Dissertation - I
355			Rapid prototyping and tooling
356			Design of Production Tooling
357			Reliability and maintenance
358			Advanced Machining
359			Nanotechnology and its Applications
360			Computer-Based Numerical Techniques and Soft Computing
361			Micro Manufacturing
362			Technology of Competitive Manufacturing
363			Concurrent Engineering
364			Dissertation - II
365	B.Tech. Civil Engineering	64	Soft Skills - III
366			Soft Skills - IV
367			Advanced Design of Steel Structure
368			Bridge Engineering
369			Advanced Design of Concrete Structure
370			Matrix Analysis of Structure
371			Plastic Analysis of Structure
372			Construction Engineering
373			Introduction to Earthquake Engineering
374			Structural Dynamics
375			Advanced Construction Engineering
376			Earthquake Resistant Design
377			Construction Engineering Laboratory
378			Computational Laboratory for Seismic Analysis
379			Construction Engineering Project
380			Earthquake Resistant Design Project
381			Foundation Engineering
382			Ground Improvement Engineering
383			Earth and Earth retaining structure
384			Geotechnical Exploration & Measurement Technique
385			Advanced Foundation Design
386			Advanced Foundation Engineering
387			Geosynthetic And Reinforced Soil Structures
388			Foundation Engineering Laboratory
389			Geosynthetics Testing Laboratory
390			Foundation Engineering Project
391			Geosynthetic And Reinforced Soil Structures Project
392			Engineering Hydrology
393			Ground Water Management
394			Hydro Power Engineering
395			Hydraulic Structures
396			Introductory Rural water Supply
397			Introduction to Climate Change studies
398			Advanced Geoinformatics
399			Applied Hydrology
400			Advanced Climate Change and Modelling
401			Advanced Water Treatment Technologies
402			Applied Hydrology Laboratory
403			Experimental Analysis of Climate
404			Advanced Water Treatment Technologies Laboratory
405			Applied Hydrology Project
406			Climate Change Modelling Project
407			Water Treatment Project
408			Railway Engineering
409			Basics of Transportation System and Planning
410			Airport Planning and design
411			Basics of Traffic Engineering
412			Construction Technology & Management
413			Transportation System and Planning
414			Advanced Traffic Engineering
415			Computer Aided Estimation & Planning Laboratory
416			Traffic Simulation And Analysis Laboratory
417			Traffic Engineering Laboratory
418			Transportation System and Planning Project
419			Advanced Traffic Engineering Project
420			Mini Project - I
421			Industrial Training
422			Mini Project - II
423			Finite Element Analysis

List of New Courses Introduced During the Session 2019-20

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
424			Environmental Instrumentation And Analysis
425			Environmental Impact Assessment
426			Solid and Hazardous waste Management
427			Environmental Sustainable Technologies
428			Air Noise Pollution Control
429	M.Tech. Civil Engineering (Structural Engineering)	5	Construction Management And Equipments
430			Introduction To Bridge Design
431			Dissertation-I
432			Cad Laboratory-II
433			Dissertation -II
434	M.Tech. Civil Engineering (Transportation Engineering)	22	Pavement Analysis and Design
435			Highway Soil Mechanics
436			Numerical Methods and Applied Statistics
437			Transportation Economics and Evaluation
438			Advanced Railway Engineering
439			Advanced Traffic Engineering
440			Urban Transportation Planning
441			Environmental Impact and Risk Assessment
442			Ground Improvement Techniques
443			Introduction to Remote Sensing and GIS
444			Modelling, Analysis and Simulation Lab
445			Application of Remote Sensing & GIS in Transportation Engineering
446			Highway Construction, Quality Control and Maintenance
447			Intelligent Transportation System
448			Airport Planning and Design
449			Advanced Concrete Technology
450			Design of Reinforced Concrete Bridges
451			Soil Structure Interaction
452			Road Materials and New Innovations in Pavement Engineering
453			Highway Construction Practice
454			Finite Element Method
455			Computer Aided Transportation Engineering Lab
456	MBA (Construction Management)	24	Project Management
457			Construction Economics
458			Quantity Surveying
459			Marketing Management
460			Construction Methods and Techniques
461			Research Methodology
462			Safety and Health Management
463			Construction Equipment Management
464			Business Communication-I
465			Construction Materials Management
466			Human Resource Management
467			Building Science and Services
468			Financial Management
469			Conventional Construction Materials and Technology
470			Tendering and Bidding
471			Ground Improvement and Foundation Engineering
472			Port Engineering and Construction
473			Infrastructure Operations Management
474			Urban Transport Planning Design and Management
475			Urban Water and Waste Water Management
476			Principles and Practices of Real Estate Management
477			Urban Planning and Design
478			Highway Project Development
479			E-Business for Construction
480	Ph.D. Civil Engineering	3	Retrofitting of Structures
481			Pavement Analysis and Design
482			Numerical Methods and Applied Statistics
483	BA (H) Eco 4800	12	Competitive Aptitude - III
484			Practical on Economic Aspects - III
485			Business Analytics
486			International Economics
487			Understanding Human & Interpersonal Behaviour
488			Competitive Aptitude - IV
489			Practical on Economic Aspects - IV
490			Behavioural Economics
491			Business Research
492			Consumer Protection Laws
493			Company Laws


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List of New Courses Introduced During the Session 2019-20

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
494	B.Com. (H) with GA 4501	14	Industrial Economics
495			Corporate Accounting – I
496			Taxation Laws & Practices – I
497			Fundamentals of Banking & Insurance
498			Human Resource Management
499			Qualitative Aspects of Business Economics
500			Corporate Accounting – II
501			Taxation Laws & Practices – II
502			Financial Management
503			Functional Aspects of International Business
504			Research Methodology for Business
505			Virtual Trading in Stock Market
506			Consumer Protection Laws
507			Corporate Laws
508			Remedial English
509	B.Com. (H) 4500	14	Corporate Accounting – I
510			Taxation Laws & Practices – I
511			Qualitative Aspects of Business Economics
512			Communication Techniques and Presentation Skill
513			Corporate Accounting – II
514			Taxation Laws & Practices – II
515			Financial Management
516			Functional Aspects of International Business
517			Consumer Protection Laws
518			Corporate Laws
519			Research Methodology for Business
520			Virtual Trading in Stock Market
521			Fundamentals of Banking & Insurance
522			Human Resource Management
523	BBA 4100	14	Marketing Management
524			Production & Operation Management
525			Business Communication
526			Patent and Copyright Law
527			Legal and Regulatory Framework of Business
528			Business Acumen – III
529			Fundamentals of Banking and Insurance
530			Business Research
531			Financial Management
532			Human Resource Management
533			Consumer Protection Laws
534			Company Laws
535			Business Acumen – IV
536			Environmental Studies
537	BBA (FB) 4600	12	Financial Management of Business
538			Entrepreneurship & Management of Family Business
539			Marketing Management & Consumer Behavior
540			International Law and Human Rights
541			Environmental Laws
542			Environmental Studies
543			Business Wisdom-III
544			Fundamentals of Business Analytics
545			Intellectual Property Law
546			Consumer Protection Laws
547			Management of Business Ambiance & Etiquettes
548			Business Wisdom-IV
549	BBA (H) 4700	14	Entrepreneurship & Management of Family Business
550			Business Research
551			Developing Competitive Edge - III
552			Managerial Aptitude – III
553			Hospitality Management
554			International Business Management
555			Event Management
556			Mass Communication
557			Company Laws
558			Consumer Protection Laws
559			Internet & E-Commerce
560			Management Information System
561			Developing Competitive Edge – IV
562			Managerial Aptitude – IV
563			Strategic Management


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
564			Advance Project Management
565			Advanced Inventory Control
566			Advertising Management
567			Big Data Analysis
568			Business Analysis and Valuation
569			Business Intelligence
570			Business Intelligence and Data Mining
571			Business Modeling with Spreadsheets
572			Business to Business Marketing
573			Change Management
574			Conflict Management and Negotiation
575			Consumer Behavior
576			Corporate Governance and Business Ethics
577			Cross Cultural Issues in International Management
578			Customer Relationship Management
579			Data Communication Networks
580			Data Environment and Management
581			Data Mining
582			Data Visualization
583			Database Management System
584			Demand and Business Forecasting
585			Developmental Projects and Impact assessment
586			Digital Marketing
587			E-Business
588			Enterprise Resource Planning
589			Entrepreneurship Management
590			Environmental Management for Rural Development
591			Export- Import Procedures and Documentation
592			Finance in Retail Operations
593			Financial Analytics
594			Financial Derivatives
595			Financial Markets and Institutions
596			Fundamentals of General Insurance
597			Fundamentals of Retail Management
598			Global Business Environment
599			Global Strategic Management
600			Green Supply chain Management
601			Human resource Analytics
602			Inclusive Growth for Sustainable Development
603			Industrial Relations and Trade Union
604			Innovating for Sustainability
605			International and Strategic Dimensions of Human Resource
606			International Banking
607			International Financial Management
608			International Logistics
609			International Marketing
610			International Trade
611			International Treaties and Conventions
612			Internet Programming and Visual Basics
613			Investment and Portfolio Management
614			Investment Banking
615			Knowledge management Techniques for Technology Management
616			Labour and Social Security Legislations
617			Leadership and Team Building
618			Legal issues in Retail
619			Livelihood System and Promotion
620			Logistics Management
621			Management of Commercial Banks and Retail Banking
622	MBA Dual (8410)		Management of Financial Services and Institutions
623			Management of Innovation and Research and Development
624			Management of Intellectual Property Rights
625			Management of Technology Transfer and Adaption
626			Managerial Aptitude – IV
627			Managerial Aptitude – V
628			Managerial Aptitude – VI
629			Managerial Counseling and Stress Management
630			Manufacturing System
631			Marketing of Services
632			Marketing Research
633			Marketing Analytics


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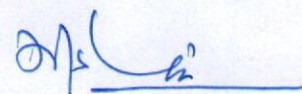
List of New Courses Introduced During the Session 2019-20

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
634			Mergers, Acquisition and Corporate Restructuring
635			Micro Finance
636			Non-Government Organizations Management
637			Operations Strategy
638			Organizational Change and Development
639			Participatory Research Methods
640			Performance Management and Competency Mapping
641			Performance Metrics and Modeling
642			Predictive Modeling
643			Principles and Practices of Life Insurance
644			Product and Brand Management
645			Programming for Analytics
646			Project Management
647			Public Policy and Health
648			Purchase Management
649			Purchasing and Inventory Management
650			Recent Trends in E-Commerce
651			Research Project Report
652			Retail Information Systems
653			Retail Merchandising
654			Retail Store Operation
655			Retail Supply Chain Management and Vendor Development
656			Risk and Insurance Management
657			Risk Management in Banks and Derivatives
658			Rural Banking and Micro Finance
659			Rural Marketing Management
660			Sales and Distribution Management
661			Security Analysis and Portfolio Management
662			Service Operations Management
663			Shoppers' Behaviour and Selling Skills
664			Social and web analytics
665			Software Management
666			Store Design Layout and Visual Merchandising
667			Store Keeping and Warehousing
668			Strategic and Implementation Issues in SCM
669			Strategic Information System Planning
670			Strategy Implementation and Control
671			Summer Training Report
672			Supply chain Analytics
673			Supply Chain Management
674			System Analysis and Design
675			Tax Planning
676			Technology Forecasting
677			Technology Policy
678			Total Productivity Management
679			Total Quality Management
680			Training and Development
681			Wealth Management and Personal Financial Planning
682			Working Capital Management
683	MBA-LSCM (8411)	15	Analytics For Supply Chain
684			Strategic Supply Chain Management
685			Warehouse Management
686			Recent trends in Supply Chain Management
687			Strategic and Operational issues in Supply Chain Management
688			Supply Chain Performance Metrics & Modeling
689			Liner Shipping Business
690			Summer Internship Report#
691			Managerial Aptitude – IV#
692			Recent Trends in E-Commerce
693			Ethics and Governance in Business
694			International Business
695			Global Logistics
696			Commercial Geography
697			Global Trade Operations and Forwarding
698			Business Analysis and Valuation
699			Contemporary Banking: Merchant, Investment & International Banking
700			Managerial Aptitude - IV
701			Corporate Governance and Business Ethics
702			Treasury & Foreign Exchange Management
703			Managerial Aptitude – V

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List of New Courses Introduced During the Session 2019-20

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
704	MBA FMB		Strategic Financial Management
705			Financial Analytics
706			Managerial Aptitude - VI
707			Research Project Report
708			Concepts of Life & General Insurance
709			Portfolio Management & Behavioural Finance
710			Securities Intermediaries Compliance & Depository
711			Principles & Practices of Insurance
712			Mergers, Acquisition and Corporate Restructuring
713			Working Capital Management
714			Micro Finance & Financial Inclusion
715			Management of Financial Services & Institutions
716			Financial Derivatives
717			Tax Planning
718			Retirement Planning
719			Project Appraisal and Monitoring
720			Corporate Tax Planning
721			Indirect Taxes: Goods & Service Tax & Custom
722			Credit Evaluation, Monitoring & Recovery Management
723			Fixed Income Securities
724			Commodity Derivatives
725			International Financial Management
726			Start-up Management
727	MBA Integrated		Management Thoughts and Thinkers
728			Fundamentals of Accounting
729			Business Economics
730			Mathematics for Managers-I
731			Professional Communication
732			Computer Application in Management
733			Managerial Aptitude - I
734			Cost and Management Accounting
735			Mathematics for Managers-II
736			Organization and Administration for Business
737			Basic Managerial Functions
738			Macro Economics
739			Managerial Aptitude and Personality Development
740			Managerial Aptitude - II
741			Operations Management
742			Organizational Behaviour
743			Marketing Management
744			Human Resource Management
745			Financial Management
746			Business Law
747			Managerial Aptitude - III
748	B.Sc.(H) Biotechnology	18	Molecular Biology
749			Plant Science I
750			Biochemistry
751			Stem Cell Technology
752			Bioinformatics
753			Molecular Biology Lab
754			Plant Science I Lab
755			Biochemistry Lab
756			Bioinformatics Lab
757			Instrumentation and Bio - Analytical Techniques
758			Microbiology
759			Immunology
760			Drug Discovery & Development
761			Clinical Microbiology
762			Instrumentation and Bio - Analytical Techniques Lab
763			Microbiology Lab
764			Immunology Lab
765			Clinical Microbiology Lab
766			Animal Biotechnology
767			Bioprocess Engineering & Fermentation Technology
768			RDT, Genomics & Proteomics
769			Plant Biotechnology
770			Nanobiotechnology
771			Enzyme Technology
772			Clinical Research in Medicinal Plants
773			Clinical Immunology



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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
774	M.Sc. (Biotechnology)	17	Nutritional Biochemistry
775			Drug Discovery and Development
776			IPR, Patent, Trademarks & Bioethics
777			Plant Biotechnology and Bioprocess Engineering & Fermentation Technology Lab
778			Animal Biotechnology, RDT and Genomics & Proteomics Lab
779			Enzyme Technology Lab
780			Clinical Research in Medicinal Plants Lab
781			Clinical Immunology Lab
782			Project work
783	M.Sc. (Microbiology & Immunology)	11	Fermentation Technology and Industrial Microbiology
784			Food, Dairy and Agricultural Microbiology
785			Advanced Immunology
786			Environmental Microbiology
787			Animal Cell Culture
788			Fermentation Technology, RDT & Genomics & Proteomics Lab
789			Food, Dairy, Agricultural Microbiology & Advanced Immunology Lab
790			Environmental Microbiology Lab
791			Nanobiotechnology Lab
792			Animal Cell Culture Lab
793	B. Pharm (BP 4400)	17	Project work
794			Medicinal Chemistry II – Theory
795			Formulative Pharmacy– Theory
796			Pharmacology II – Theory
797			Pharmacognosy and Phytochemistry II– Theory
798			Pharmaceutical Jurisprudence – Theory
799			Formulative Pharmacy – Practical
800			Pharmacology II – Practical
801			Pharmacognosy and Phytochemistry II –Practical
802			Medicinal Chemistry III – Theory
803	Bachelor of Arts LLB (Hons.)	12	Pharmacology III – Theory
804			Herbal Drug Technology – Theory
805			Biopharmaceutics and Pharmacokinetics –Theory
806			Pharmaceutical Biotechnology – Theory
807			Quality Assurance –Theory
808			Medicinal chemistry III – Practical
809			Pharmacology III – Practical
810			Herbal Drug Technology – Practical
811			Law of Contract I
812			Law of Contract II
813	B.Com. LLB (Hons.)	12	Interpretation of Statutes
814			Family Law I
815			Family Law II
816			Political Science-III
817			Political Science-IV
818			Development of Legal & Judicial System in India
819			Sociology-III
820			Foreign language
821			Jurisprudence -I
822			Jurisprudence-II
823	Ph.D. (Education)	1	Law of Contract I
824			Law of Contract II
825			Family Law I
826			Family Law II
827			Interpretation of Statutes
828			Managerial Economics I
829			Managerial Economics II
830			Corporate accounting -I
831			Corporate accounting -II
832			Law of taxation-I
833			Law of taxation-II
834			Legal Hindi
835			Educational Research Methods & Statistics
836			Fundamentals of Horticulture
837			Fundamentals of Plant Biochemistry and Biotechnology
838			Fundamentals of Soil Science
839			Introduction to Forestry
840			Fundamentals of Agronomy
841			Rural Sociology & Educational Psychology
842			Agricultural Heritage
843			Human Values & Ethics


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
844	B.Sc. (Hons.) Agriculture	23	Comprehension & Communication Skills in English
845			Introductory Biology
846			Elementary Mathematics
847			NSS
848			NCC
849			Physical Education & Yoga Practices
850			Fundamentals of Genetics
851			Agricultural Microbiology
852			Soil and Water Conservation Engineering
853			Fundamentals of Agricultural Economics
854			Fundamentals of Plant Pathology
855			Fundamentals of Crop Physiology
856			Fundamentals of Entomology
857	B.Sc. (H) Physics	18	Fundamentals of Agricultural Extension Education
858			Communication Skills and Personality Development
859			Mechanics and Relativity
860			Ancillary Physics - I
861			General Chemistry - I
862			Algebra & Calculus
863			English Language Skills-I
864			Fundamentals of Computers
865			Physics Lab-1
866			Chemistry Lab-1
867			Fundamentals of Computer Lab
868			Heat and thermodynamics
869	M.Sc Physics	10	Ancillary Physics -II
870			General Chemistry-II
871			Applied Mathematics and Statistics
872			English Language Skills-II
873			Introduction to Programming
874			Physics Lab-2
875			Chemistry Lab-2
876			Programming Lab-2
877			Mathematical Physics
878			Classical Mechanics
879			Statistical Mechanics
880			Quantum Mechanics - I
881	B. Sc. Chemistry	15	General Physics Lab. -I
882			Electronics-I
883			Quantum Mechanics - II
884			Nuclear Physics
885			Solid State Physics
886			General Physics Lab. -2
887			Physical Chemistry-II
888			Organic Chemistry-II
889			Inorganic Chemistry -I
890			Analytical Chemistry-I
891			Chemistry Lab-III
892			Chemistry Lab-IV
893	M. Sc. Chemistry	12	Chemistry Lab-V
894			Physical Chemistry-III
895			Organic Chemistry-III
896			Inorganic Chemistry -II
897			Analytical Chemistry-II
898			Chemistry Lab-VI
899			Chemistry Lab-VII
900			Chemistry Lab-VIII
901			Fuel Cell Technology
902			Spectroscopy- II
903			Nano Science and Nanotechnology
904			Heterocyclic Chemistry
905			Corrosion Chemistry
906	M. Sc. Chemistry	12	Inorganic Chemistry Lab-II
907			Organic Chemistry Lab-II
908			Graduate Seminar
909			Polymer Chemistry
910			Environmental and Green Chemistry
911			Chemistry of Selected Natural Products
912			Methods in Organic Synthesis
913			Dissertation


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List of New Courses Introduced During the Session 2019-20

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
914	P.hD. (Mathematics) (9210)	4	Computer based Numerical Techniques and Soft Computing
915			Applies Statistics and Optimization Techniques
916			Differential Geometry of Manifolds
917			Riemann-Finsler Geometry
918	PhD in English	1	Research Methodology for English Studies


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
1	B.Tech-Computer Science and Engineering	31	Cryptography and Network Security
2			Cryptography and Network Security Lab
3			Software Quality Engineering
4			Service Oriented Architecture
5			Agile Software Development
6			Digital Image Processing
7			Soft Computing
8			Digital Image Processing Lab
9			Soft Computing Lab
10			Advanced Concepts in Database Systems
11			Data Mining and Warehousing
12			Business Intelligence
13			Information Retrieval System
14			Distributed and Parallel Databases
15			Natural Language Processing
16			Big Data Analytics
17			Data Mining and Warehousing Lab
18			Business Intelligence Lab
19			Big Data Analytics Lab
20			Business Intelligence Project
21			Big Data Analytics Project
22			Advanced Computer Architecture
23			Embedded System
24			Distributed System
25			Embedded System Lab
26			Project – Part I
27			Project – Part II
28			Applied Database Management System
29			Applied Data Structures and Algorithms
30			Applied Database Management System Lab
31			Applied Data Structures and Algorithms Lab
32	B.Tech-Computer Science and Engineering (Cloud Computing and Virtualization)	14	Project – Part I
33			Project – Part II
34			Applied Database Management System
35			Applied Data Structures and Algorithms
36			Applied Database Management System Lab
37			Applied Data Structures and Algorithms Lab
38			Cloud and Business Process Management
39			Cloud Security, Backup & Disaster Recovery
40			Container Orchestration and Infrastructure Automation
41			DevOps
42			Cloud and Business Process Management Lab
43			Cloud Security, Backup & Disaster Recovery Lab
44			Container Orchestration and Infrastructure Automation Lab
45			DevOps Lab
46	B.Tech Computer Science and Engineering (Data Analytics)	6	Project – Part I
47			Project – Part II
48			Applied Database Management System
49			Applied Data Structures and Algorithms
50	B.Tech-Computer Science and Engineering (Cyber Security and Forensics)	4	Applied Database Management System Lab
51			Applied Data Structures and Algorithms Lab
52			Applied Database Management System
53			Applied Data Structures and Algorithms
54	B.Tech-Computer Science and Engineering (Internet of Things)	11	Applied Database Management System Lab
55			Applied Data Structures and Algorithms Lab
56			Descriptive Analytics for IoT
57			Ipv6 Analysis and Applications
58			Descriptive Analytics for IoT Lab
59			Big Data Analytics
60			IoT for Industries
61			Designer of Smarter Cities
62			Big Data Analytics Lab
63			Applied Database Management System
64			Applied Data Structures and Algorithms
65			Applied Database Management System Lab
66			Applied Data Structures and Algorithms Lab


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List of New Courses Introduced During the Session 2020-21

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
67	B Tech-Computer Science and Engineering (Artificial Intelligence and Machine Learning)	2	Introduction to Machine Learning
68			Algorithm for Intelligent Systems and Robotics
69	B Tech-Computer Science and Engineering (Industrial Internet of Things)	2	Introduction to IoT
70			IIOT Communication & Interface
71	Bachelor of Computer Applications	26	Web Technology
72			Web Technology Lab
73			Mini Project – II
74			Major Project
75			Advanced Database Management System
76			Enterprise Resource Planning
77			Software Project Management
78			Management Information System and E commerce
79			Digital Marketing & Transformation
80			Advanced Database Management System Lab
81			Digital Marketing & Transformation Lab
82			Introduction to Artificial Intelligence
83			Software Testing
84			Cyber Security
85			Data Mining & Warehousing
86			Design and Analysis of Algorithms
87			Programming in Advanced Java
88			Introduction to Distributed System
89			Introduction to Cloud Computing
90			Introduction to Big Data
91			Introduction to Internet of Things
92			.Net Framework using VB Net
93			Advanced Java Lab
94			Introduction to Big Data Lab
95			VB Net Programming Lab
96			Soft Skills -V
97	B.Tech. Electronics & Communication Engineering	6	Elements of soft computing
98			Elements of soft computing lab
99			Non-Conventional Energy Resources
100			Smart Industrial Connectivity
101			Data Sciences and Analytics
102			Advanced Microprocessor
103	M.Tech. Electronics & Communication Engineering	1	Memory Design and Testing
104	PhD Electronics & Communication Engineering	1	Research and Publication Ethics
105	B.Tech. Electrical & Electronics Engineering	4	Signals & Systems
106			Power System Analysis & Protection
107			Power System Transmission & Distribution
108			Power systems & Protection lab
109	PhD Electrical Engineering	1	Research and Publication Ethics
110	B.Tech ME	37	Power Plant Engineering
111			Modern Vehicle Technology
112			Gas Dynamics
113			Gas Turbine and Jet Propulsion
114			Advanced Heat Transfer
115			Introduction to Vehicle Dynamics
116			Vehicle Dynamics Lab
117			Advanced Fluid Mechanics
118			Compressible Fluid Flow
119			Aerodynamics
120			Turbulent Flow
121			Computational Fluid Dynamics
122			CFD Lab
123			Advanced Software Lab
124			Continuum Mechanics
125			Computer Aided Design
126			Finite Element Methods
127			Vibration and Noise
128			Machine Tool Design
129			Computer Aided Manufacturing
130			Modern Manufacturing Process
131			Metal Forming Analysis
132			CAD/CAM Lab


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List of New Courses Introduced During the Session 2020-21

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
133			Modern Manufacturing Process Lab
134			Project based Modern Manufacturing Process Lab
135			Project based CAD/CAM Lab
136			Product Development & Design
137			Value Engineering
138			Supply Chain Management
139			Applied Ergonomics
140			Robotics & FMS
141			Industrial Automation & Control System
142			Engineering System Modeling & Simulation
143			Robotics & FMS Lab
144			Project based Robotics & FMS Lab
145			Minor Project
146			Major Project
147	B.TECH ME (AE)	2	Modern Vehicle Technology
148			Fuel and Lubricant
149	B.Tech ME (MTE)	1	Network Analysis and Synthesis
150	B.Tech ME (SM)	2	Product Design & Development
151			Product Design Manufacturing
152	Ph.D ME	1	Research Publication & Ethics
153			Building Materials and Geology
154			Basic Surveying
155			Traffic Engineering
156	B.Tech. Civil Engineering	7	Construction Management and Equipments
157			Advanced Construction Engineering laboratory
158			Project I
159			Project II
160			Value Engineering and Lean Construction
161			Contract Management
162			Special Construction Techniques
163			Operations Management
164			Valuation of Properties and its Strategies
165			Management of Public Private Partnership
166			Construction Methods in Geo-Technical Engineering
167			Environment Management System
168	MBA (Construction Management)	18	Summer Training
169			Infrastructure Development and Operations
170			Airport Construction Management
171			Technology and Management of High- Rise Structures and Special Building
172			Repair, Retrofitting and Maintenance of Structure
173			Green Building
174			Business Communication-II
175			Arbitration, Contracts and Claims Management
176			Business and Project Communications
177			Major Project
178	M.Tech. Civil Engineering (Structural Engineering)	1	Advanced Design of Bridges
179			Seminar
180			Pavement Materials Laboratory
181			Computer Aided Transportation Engineering Laboratory
182	M.Tech. Civil Engineering (Transportation Engineering)	7	Infrastructure Project Management
183			Tunnel Engineering
184			Dissertation – I
185			Dissertation - II
186			Numerical Methods and Applied Statistics
187	Ph.D. Civil Engineering	3	Environmental Impact and Risk Assessment
188			Research And Publication Ethics
189			Corporate Governance
190			Econometrics
191			Foreign Trade & Policies
192			Modern Banking Practices
193			Sustainable Development
194			Rural Development
195			Welfare Economics
196			Health Economics
197			Industrial Finance
198			Experimental Methods of Economics


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
199	BA (H) Eco 4800	30	Game Theory
200			Psychological Economics
201			Production Planning & Behaviour
202			Resource Economics & Management
203			Operations Research
204			Industrial Behavioural Economics
205			Mergers & Acquisitions in Economy
206			Economic Aspects of Export & Import
207			Capital Budgeting
208			Urbanization & Development
209			Economic Growth Models
210			Environmental Economics
211			Economic System and Society
212			Supply Chain and Logistics
213			Industrial Organization
214			Industrial Development
215			Multinational Enterprises and Industrial Policies
216			Professional Aspects of Behavioural Economics
217			Financial aspects of Consumer Behaviour
218			Actuarial Economics
219			Labour Economics
220	B.Com. (H) 4500	36	Accounting for Management
221			Cost Accounting
222			Management of Working Capital
223			Auditing
224			Public Finance
225			Microfinance
226			Entrepreneurship and Small Business Management
227			Principles of Business management
228			Business & Economic Environment
229			Mergers and Acquisitions
230			Industrial Economics
231			Indian Economics
232			Management of International Trade
233			International Logistics
234			International Treaties and Convention
235			Financial Reporting and Analysis
236			Financial Analytics
237			Security Analysis and Portfolio Management
238			Compensation Management
239			New Venture Planning
240			e-Commerce
241			Economics and Regulations of Exchange Markets
242			Development Economics
243			Behavioural Economics
244			Cross Cultural Issues in International Business
245			International Marketing
246			Emerging Aspects of Foreign Trade Policy
247			Principles and Practices of General Insurance
248			Banking Laws and Environment
249			Marketing of Financial Product and Services
250			Management of Commercial Bank
251			Principles and Practices of Life Insurance
252			Functional Aspects of Banking
253			Insurance Laws and Environment
254			e-Banking
255			International Business Management
256			Company Accounts and Practices- I
257			Financial Reporting and Taxation
258			Company Accounts and Practices- II
259			Audit & Assurance
260			Financial Audit
261			Cost & Management Audit
262			Drafting, Appearances and Pleadings
263			Investment Management
264			Capital Markets & Securities Laws


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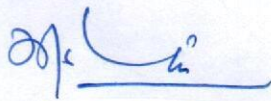
List of New Courses Introduced During the Session 2020-21

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
265	B.Com. (H) with GA 4501	36	Financial Services
266			Corporate Restructuring, Valuation and Insolvency
267			Production, Operations & Decision Sciences
268			Economics for Finance
269			Global Development in Finance
270			Organisational Behaviour and Analysis
271			Banking theory & Practice
272			Money Banking & Finance
273			Entrepreneurial Development
274			Operations Management
275			Business Modeling
276			Data Management
277			Financial Strategy
278			Competition & Globalisations
279			International Business Economics
280			Secretarial Audit, Compliance Management and Due Diligence
281			Information Technology & Systems Audit
282			Corporate Audit & Reporting
283			Advanced Auditing
284			Commodity and Money Market
285			Risk Management
286			Financial, Treasury and Forex Management
287			Enterprise Information systems
288			Behavioural Decision Theory
289			Financial Planning, Analysis and Control
290			Behavioural Portfolio Theory
291			Social Banking & Micro Finance
292	BBA 4100	35	Business Acumen – V
293			Corporate Strategic Management
294			Business Acumen – VI
295			Training & Development
296			Industrial Relations
297			Group Dynamics & Team Building
298			Compensation & Reward Management
299			Sales & Distribution Management
300			Rural Marketing
301			International Marketing
302			Digital Marketing
303			International Financial Management
304			Management of Financial Institutions & Services
305			Cost Accounting for Business Managers
306			Working Capital Management
307			Principles and Practices of Life Insurance
308			Functional Aspects of Banking
309			Insurance Laws and Environment
310			e-Banking
311			Negotiation & Counseling
312			International Human Resource Management
313			Leadership Skills & Change Management
314			Labour Laws
315			Marketing of Services
316			Retail Management
317			Product & Brand Management
318			Customer Relationship Management
319			Investment Management
320			Taxation Laws
321			Personal Financial Planning
322			Corporate Accounting
323			Principles and Practices of General Insurance
324			Banking Laws & Environment
325			Marketing of Financial Products and Services
326			Management of Commercial Bank
327			Business Analytics
328			Developing Competitive Edge – V
329			Managerial Aptitude – V
330			Business Policy and Strategic Management


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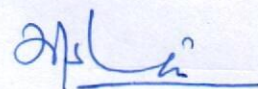
List of New Courses Introduced During the Session 2020-21

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
331	BBA (H) 4700	42	Developing Competitive Edge - VI
332			Managerial Aptitude – VI
333			Emerging Trends in Hospitality
334			Legal & Social Practices in Hospitality
335			Hospitality Marketing & Sales
336			Strategic Hospitality Management
337			Event Management Planning
338			Event Production Process
339			Event Cost Accounting & Finance Management
340			Event Marketing & Sponsorship
341			Tourism & Travel Management
342			Hotel & Catering Management
343			Leisure Management
344			Health & Wellness Management
345			Managing Special Events
346			Event Team & Crew Management
347			Event Resource Management
348			Event Hospitality & Media Management
349			Creativity & Innovation
350			Materials Management
351			Social Responsibility of Business
352			Export Procedure and Documentation
353			International Business Environment
354			Management of International Trade
355			International Logistics
356			International Treaties and Conventions
357			Principles and Practices of Life Insurance
358			Functional Aspects of Banking
359			Insurance Laws and Environment
360			e-Banking
361			Managing Small & Family Business
362			Project Planning & Management
363			e-Business
364			Modern Office Management
365			Investment Management
366			Taxation Laws
367			Personal Financial Planning
368			Corporate Accounting
369	BBA (FB) 4600	30	Management of Business Inventiveness & Advancement
370			Business Wisdom-V
371			Practical on Managerial Aptitude-I
372			Business Wisdom-VI
373			Practical on Managerial Aptitude-II
374			HR Analytics
375			Marketing Analytics
376			Socio Technical Analytics
377			International Business Environment
378			Managing Small & Family Business
379			Project Planning & Management
380			e-Business
381			Modern Office Management
382			Logistics Management
383			Recent Trends in E-Commerce
384			Store Keeping and Warehousing
385			Purchasing and Inventory Management
386			Logistics & Supply Chain Analytics
387			Big Data Analysis
388			Data Environment and Management
389			Business Intelligence
390			International HR & Strategic Issues
391			Creativity & Innovation
392			Materials Management
393			Social Responsibility of Business
394			Export Procedure and Documentation
395			Green Supply chain Management
396			Strategic and Implementation Issues in SCM


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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
397	MBA-INTEGRATED (8414)	21	Performance Metrics and Modeling
398			Enterprise Resource Planning
399			Professional Ethics & Values
400			Operations Research
401			Team Building & Leadership
402			Business Environment
403			Mass Communication & Media Management
404			Basic MS Office applications for managers
405			Managerial Aptitude – IV
406			Entrepreneurship Development
407			Sales and Distribution Management
408			Company Law
409			Micro Finance
410			International Business Management
411			Econometrics
412			Managerial Aptitude – V
413			Supply Chain Management
414			Project Management
415			International Financial Management
416			Research Methodology
417			Strategic Management
418			Managerial Aptitude – VI
419			Summer Internship - I
420	B.Sc (H) Biotechnology	33	Plant Biotechnology
421			Recombinant DNA Technology
422			Plant Biotechnology Lab
423			Recombinant DNA Technology Lab
424			Chemistry-III
425			Genetics
426			Plant Science II
427			Food and Industrial Biotechnology
428			Enzymology
429			Evolution and Ecology
430			Chemistry-III Lab
431			Genetics Lab
432			Plant Science II Lab
433			Food and Industrial Biotechnology Lab
434			Enzymology Lab
435			Evolution and Ecology Lab
436			Animal Biotechnology
437			Genomics & Proteomics
438			Animal Biotechnology Lab
439			Genomics & Proteomics Lab
440			Fermentation Technology
441			Role of Biotechnology in Forensic Science
442			Developmental Biology
443			Human Physiology
444			Environmental Biotechnology
445			Clinical Biochemistry
446			Fermentation Technology Lab
447			Role of Biotechnology in Forensic Science Lab
448			Developmental Biology Lab
449			Human Physiology Lab
450			Environmental Science Lab
451			Clinical Biochemistry Lab
452			Project Training
453			Elementary Mathematics-I
454			Introduction to Biology
455			Engineering Chemistry
456			English Language skill for communication-I
457			Electrical Engineering
458			Python programming
459			Engineering Chemistry Lab
460			English Language Lab – I
461			Electrical Engineering Lab –I
462			Python programming Lab



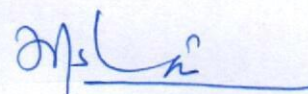
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List of New Courses Introduced During the Session 2020-21

S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
463	B.Tech (Biotechnology)	22	Engineering Drawing Lab
464			Elementary Mathematics-II
465			Engineering Physics
466			Animal and Plant Physiology
467			English Language skill for communication-II
468			Electronics Engineering
469			Basic Mechanical Engineering
470			Engineering Physics Lab
471			English Language Lab - II
472			Electronics Engineering Lab - I
473			Engineering Workshop Practices Lab
474			Animal and Plant Physiology Lab
475	Ph.D. Biotechnology/Microbiology & Immunology	1	Research & Publication Ethics
476	B. Pharm (BP 4400)	19	Instrumental Methods of Analysis – Theory
477			Industrial Pharmacy – Theory
478			Pharmacy Practice – Theory
479			Novel Drug Delivery System – Theory
480			Instrumental Methods of Analysis – Practical
481			Practice School
482			Biostatistics and Research Methodology
483			Social and Preventive Pharmacy
484			Pharma Marketing Management
485			Pharmaceutical Regulatory Science
486			Pharmacovigilance
487			Quality Control and Standardization of Herbals
488			Computer Aided Drug Design
489			Cell and Molecular Biology
490			Cosmetic Science
491			Experimental Pharmacology
492			Advanced Instrumentation Techniques
493			Dietary Supplements and Nutraceuticals
494			Project Work
495	PhD (9440) Pharmacy	1	Research Publication & Ethics
496	Bachelor of Arts LLB (Hons.)	12	Labour Law- I
497			Law of Crimes – I
498			Political science-VI
499			Property Law and Easement Laws
500			Administrative Law
501			Labour Law- II
502			Law of Crimes-II
503			Civil Procedure Code I
504			Company Law
505			The Code of Criminal Procedure -I
506			Political Science -Public Administration
507			Law of taxation
508	B.Com. LLB (Hons.)	12	Labour Law- I
509			Law of Crimes – I
510			Cost Accounting
511			Property Law and Easement Law
512			Administrative Law
513			Labour Law- II
514			Law of Crimes-II
515			Civil Procedure Code I
516			Company Law
517			principles and practices of banking and insurance,
518			The Code of Criminal Procedure -I
519			Law of Taxation
520	Ph.D. Law	4	Research and Publication Ethics
521			Law and social transformation in India
522			Emerging challenges in law
523			Research Methodology
524	Ph.D. (Education)	1	Research and Publication Ethics
525			Fundamentals of Horticulture
526			Fundamentals of Plant Biochemistry and Biotechnology
527			Fundamentals of Soil Science
528			Introduction to Forestry

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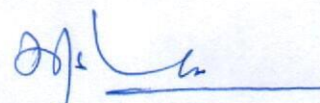
S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
529	B.Sc. (Hons.) Agriculture	42	Fundamentals of Agronomy
530			Rural Sociology & Educational Psychology
531			Agricultural Heritage
532			Human Values & Ethics
533			Comprehension & Communication Skills in English
534			Introductory Biology
535			Elementary Mathematics
536			NSS
537			NCC
538			Physical Education & Yoga Practices
539			Fundamentals of Genetics
540			Agricultural Microbiology
541			Soil and Water Conservation Engineering
542			Fundamentals of Agricultural Economics
543			Fundamentals of Plant Pathology
544			Fundamentals of Crop Physiology
545			Fundamentals of Entomology
546			Fundamentals of Agricultural Extension Education
547			Communication Skills and Personality Development
548			Crop Production Technology – I (Kharif Crops)
549			Fundamentals of Plant Breeding
550			Problematic Soils and their Management
551			Diseases of Field and Horticultural Crops and their Management – I
552			Farm Machinery and Power
553			Production Technology for Vegetables and Spices
554			Livestock and Poultry Management
555			Environmental Studies and Disaster Management
556			Statistical Methods
557			Crop Production Technology – II (Rabi Crops)
558			Production Technology for Ornamental Crops, MAP and Landscaping
559			Agri-Informatics
560			Production Technology for Fruit and Plantation Crops
561			Agricultural Marketing Trade & Prices
562			Principles of Seed Technology
563			Farming System & Sustainable Agriculture
564			Introductory Agro-meteorology & Climate Change
565			Renewable Energy and Green Technology
566			Agricultural Journalism
567	B.Sc (H) Physics	15	Basic Electronics
568			Electricity and Magnetism
569			Modern Physics
570			Elementary Statistical Mechanics
571			Environmental Science
572			Electronics Lab
573			Electrical Lab
574			Project - 1
575			Elementary Solid State Physics
576			Elementary Quantum Mechanics
577			Atomic Physics
578			Elements of Nuclear Physics
579			Solid State Physics Lab
580			Optics Lab
581			Project - 2
582	M.Sc Physics	9	Introduction to Linear and digital integrated circuits-I (Elective-I)
583			Electronics-II
584			Classical Electrodynamics
585			Computational Physics and Programming
586			Electronics Lab-1
587			Atomic and Molecular Physics
588			Introduction to Linear and digital integrated circuits-II (Elective - II)
589			Dissertation
590			Electronics Lab-2
591	Ph.D Physics	2	General Relativity
592			Research and Publication Ethics
593			Physical Chemistry-IV
594			Inorganic Chemistry –III



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S. No.	Name of the Programme	No. of New Courses Introduced	Title of New Courses Introduced
595	B. Sc. Chemistry	17	Organic Chemistry –V
596			Analytical Chemistry-III
597			Analytical Chemistry-III
598			Chemistry Lab-IX
599			Chemistry Lab-X
600			Chemistry Lab-XI
601			Physical Chemistry-V
602			Chemistry Lab-XII
603			Organic Chemistry-IV
604			Green Chemistry and Corrosion Science
605			Nanomaterials And Nanotechnology
606			Technology of Surface Coating
607			Material Science & Engineering
608			Introduction to Biophysical Chemistry
609			Soft Skills - I
610	M. Sc. Chemistry	1	Environmental and Green Chemistry
611	Ph. D. Chemistry	1	Research and Publication Ethics
612	M.Sc. (Mathematics)	13	Real Analysis
613			Abstract Algebra
614			Ordinary Differential Equation
615			Linear Algebra
616			Programming in Python
617			Python Programming Lab
618			Statistical Analysis
619			Operational Research-I
620			Topology
621			Complex Analysis-I
622			Functional Analysis
623			Statistical Analysis Lab with R-Programming
624			Technical Writing
625	P.h.D. (Mathematics) (9210)	5	Random Variables and Software Tools
626			Computer Skills and Fluid Dynamics
627			Computational Methods for Fluid Dynamics
628			Foundations of Complex Analysis I
629	MBA (Construction Management)	2	Research and publication Ethics
630			Business Communication-I
631	MSc (Mathematics)	1	Business Communication-II
632	PhD in English	5	Technical Writing
633			Advanced Topics of Research: Approaches to Literary/Non-literary Studies
634			Advanced Topics of Research in Language Studies
635			Advanced Topics of Research in Translation Studies
636			Current Approaches to English Studies:
637			(I) Literary Studies (II) Language Studies (III) Translation Studies
			Research and Publication Ethics



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