ADDITIONAL COURSES TO BE STUDIED BY THE LATERAL ENTRY STUDENTS ADMITTED TO III SEMESTER B.E. / B.TECH. (R-2019) UNDER LATERAL ENTRY SCHEME.

The following additional courses are prescribed for the lateral entry students admitted directly to the III Semester of B.E. / B.Tech. degree programmes under Regulations 2019 through the Lateral Entry Scheme.

I. UG Programmes offered under Faculty of Civil Engineering

1. B. E. Civil Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	GE5151	Engineering Graphics	ESC	1	0	4	5	3
2.	GE5152	Engineering Mechanics	ESC	3	1	0	4	4

2. B.E. Geoinformatics

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	GE5153	Problem Solving and Python Programming	ESC	3	0	0	3	3
2.	PH5201	Physics for Geoinformatics	BSC	3	0	0	3	3

II. UG Programmes offered under Faculty of Mechanical Engineering

1. B.E. Mechanical Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MA5252	Engineering Mathematics - II	BSC	3	1	0	4	4
2.	GE5152	Engineering Mechanics	ESC	3	1	0	4	4
3.	GE5153	Problem Solving and Python Programming	ESC	3	0	0	3	3
4.	GE5161	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2

2. B.E. Materials Science and Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MA5252	Engineering Mathematics – II	BSC	3	1	0	4	4
2.	ML5201	Physical Metallurgy	ESC	3	1	0	4	4
3.	ML5202	Reaction Kinetics and Dynamics	BSC	3	0	0	3	3
4.	GE5153	Problem Solving and Python Programming	ESC	3	0	0	3	3
5.	GE5161	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2

3. B.E. Printing and Packaging Technology

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	HS5151	Technical English	HSMC	4	0	0	4	4
2.	MA5158	Engineering Mathematics - I	BSC	3	1	0	4	4

4. B.E. Manufacturing Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	GE5152	Engineering Mechanics	ESC	3	1	0	4	4
2.	GE5153	Problem Solving and Python Programming	ESC	3	0	0	3	3
3.	GE5161	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
List of additional subjects to be offered to lateral entry students except Diploma in EEE & Mechatronics								
1.	EE5251	Basics of Electrical and Electronics Engineering	ESC	3	0	0	3	3
2.	EE5261	Electrical and Electronics Engineering Laboratory	ESC	0	0	4	4	2

5. B.E. Aeronautical Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MA5158	Engineering Mathematics - I	BSC	3	1	0	4	4
2.	MA5252	Engineering Mathematics - II	BSC	3	1	0	4	4

6. B.E. Production Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	HS5151	Technical English	HSMC	4	0	0	4	4
2.	GE5153	Problem Solving and Python Programming	ESC	3	0	0	3	3
3.	GE5161	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2

7. B.E. Robotics and Automation

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MA5158	Engineering Mathematics - I	BSC	3	1	0	4	4
2.	GE5153	Problem Solving and Python Programming	ESC	3	0	0	3	3
3.	GE5161	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2

8. B.E. Mining Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MI5201	Mine Development	PCC	2	0	2	4	3

9. B.E. Industrial Engineering

SL. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	GE5153	Problem Solving and Python Programming	ESC	3	0	0	3	3
2.	GE5161	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
3.	PH5251	Materials Science	BSC	3	0	0	3	3

III. UG Programmes offered under Faculty of Information and Communication Engineering

1. B.E. Computer Science and Engineering

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MA6251	Discrete Mathematics	BS	3	1	0	3	5

2. B.Tech. Information Technology

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	IT5201	Information Technology Essentials	PCC	3	0	0	3	3

3. B.Tech. Artificial Intelligence and Data Science

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	GE5153	Problem Solving and Python Programming	PCC	3	0	0	3	3
2.	AZ5201	Object Oriented Programming and Data Structures	PCC	3	0	0	3	3

IV. UG Programmes offered under Faculty of Electronics and Communication Engineering

1. B. E. Electronics and Communication Engineering

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	EC5251	Circuit Theory	ESC	3	1	0	4	4
2.	PH5202	Semiconductor Physics and Devices	BSC	3	0	0	3	3

2. B. E. Biomedical Engineering

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	BM5201	Anatomy and Physiology	BSC	3	0	0	3	3
2.	GE5153	Problem Solving and Python programming	ESC	3	0	0	3	3

V. UG Programmes offered under Faculty of Technology

B.Tech. Industrial Biotechnology, B. Tech. Food Technology and
B. Tech. Pharmaceutical Technology

Branch	Essential Course to from II semester	Course to Drop from III semester
B.Tech. IBT	IB5251 - Microbiology	IB5301 – Basic Industrial Biotechnology
B. Tech. Food Technology	FT5201 – Food Microbiology FT5202 – Biochemistry and Nutrition	FT 5302 – Food Chemistry
B.Tech. Pharmaceutical Technology	IB5251 – Microbiology PM5202 – Biochemistry for Pharmaceutical Technology	PM5301 – Physical Pharmaceutics PM5304 – Pharmaceutical Chemistry