LIST OF B.Tech NON-DEPARTMENTAL ELECTIVE COURSES (ELECTIVE - 5 OFFERED IN S8)

Note : The table gives the list of branches and the corresponding courses which are NOT eligible for that branch. In the column under "Courses Conditionally eligible" a student can choose a course if he/she has not studied or is not studying (in S8) the elective course given in the bracket.

BRANCH	COURSES NOT ELIGIBLE	COURSES CONDITIONALLY ELIGIBLE
1.Aeronautical Engineering	AO482, ME484, EE484	ME471 (AO467)
2. Applied Electronics and Instrumentation Engineering	AE482,AE484, EE484, AU484, EE492,BM482	MP469 (AE362), EE486(EC360)
3. Automobile Engineering	AU484, AU486	MP482 (AU465)
4. Biomedical Engineering	BM482,BM484, IC482, AU484, EE484 , EC482	MR482 (BM362)
5. Biotechnology	BT362, BT461, MT482	FT482 (BT464)
6. Chemical Engineering	CH482, CH484, MT482	MA484 (CH369), ME471(CH369)
7. Civil Engineering	CE482, CE484, CE486, CE488, CE492, MP484	ME484 (CE466), ME471 (CE473)
8. Computer Science and Engineering	CS482, CS484, CS486, CS488, MA488, AU484, MP484	EE486 (CS361), MA484 (CS365), ME471(CS365)
9. Electrical and Electronics Engineering	EE482, EE484, EE486, EE488, EE492, AU484, AE482	CS486 (EE361), CS482 (EE362), BM482 (EE372), ME482 (EE474)
10. Electronics and Biomedical Engineering	BM482, BM484, IC482, AU484, EE484, EC482	MR482 (BM362)
11. Electronics and Communication Engineering	EC482, AU484, CS486, EE484	EE486 (EC360), MA484 (EC363), ME471 (EC363)
12. Food Technology	FT482, FT484, FT486	EE488(FT466)
13. Industrial Engineering	IE482, IE484, IE486, IE488, CS486, MA484, ME471, EE488	MP469(IE363), MT482(IE466)
14. Information Technology	IT482, CS482, CS486, AU484, MA488	CS484(IT367), MP484(IT364)
15. Instrumentation and Control Engineering	AE482, AE484, AU484, EE484, EE492, BM482, IC482	EE488 (IC362), IE488 (IC364)
16. Mechanical Engineering	ME482, ME484, ME471, EE482, MR482	EE484 (ME362), EE488 (ME464), MA484 (ME372)
17. Mechanical (Automobile) Engineering	AU482, AU484, AU486, ME482, ME484, ME471, MR482	
18. Mechanical (Production) Engineering	ME482, ME484, ME471, MP482, MP469, MP484, MR482, IE488	EE488 (ME464)

19. Mechatronics	MR482, AU484, EE484, BM482, EE488, EE486	EE482(MR364), BM482(AE403), CS486(MR363), ME484 (ME469)
20. Metallurgy	MT482	
21. Naval Architecture and Ship Building	SB482, CS482	ME484(SB468)
22. Production Engineering	MP482, MP469, MP484, , MR482, IE488, MA484, ME471	EE486(MP369), EE488(MP372), ME484(ME469)
23. Safety and Fire Engineering	FS482, MT482, CE488	

LIST OF NON DEPARTMENTAL COURSES

1. AE482 INDUSTRIAL INSTRUMENTATION
2. AE484 INSTRUMENTATION SYSTEM DESIGN
3. AO482 FLIGHT AGAINST GRAVITY
4. AU484 MICROPROCESSOR AND EMBEDDED SYSTEMS
5. AU486 NOISE, VIBRATION AND HARSHNESS
6. BM482 BIOMEDICAL INSTRUMENTATION
7. BM484 MEDICAL IMAGING & IMAGE PROCESSING TECHNIQUES
8. BT362 SUSTAINABLE ENERGY PROCESSES
9. BT461 DESIGN OF BIOLOGICAL WASTE WATER TREATMENT SYSTEMS
10. CE482 ENVIRONMENTAL IMPACT ASSESSMENT
11. CE484 APPLIED EARTH SYSTEMS
12. CE486 GEO INFORMATICS FOR INFRASTRUCTURE MANAGEMENT
13. CE488 DISASTER MANAGEMENT
14. CE494 ENVIRONMENTAL HEALTH AND SAFETY
15. CH482 PROCESS UTILITIES AND PIPE LINE DESIGN
16. CH484 FUEL CELL TECHNOLOGY
17. CS482 DATA STRUCTURES
18. CS484 COMPUTER GRAPHICS
19. CS486 OBJECT ORIENTED PROGRAMMING
20. CS488 C # AND .NET PROGRAMMING
21. EC482 BIOMEDICAL ENGINEERING
22. EE482 ENERGY MANAGEMENT AND AUDITING
23. EE484 CONTROL SYSTEMS
24. EE486 SOFT COMPUTING
25. EE488 INDUSTRIAL AUTOMATION
26. EE494 INSTRUMENTATION SYSTEMS
27. FS482 RESPONSIBLE ENGINEERING
28. FT482 FOOD PROCESS ENGINEERING
29. FT484 FOOD STORAGE ENGINEERING
30. IC482 BIOMEDICAL SIGNAL PROCESSING
32. IE482 FINANCIAL MANAGEMENT
33. IE484 INTRODUCTION TO BUSINESS ANALYTICS
34. IE486 DESIGN AND ANALYSIS OF EXPERIMENTS
35. IE488 TOTAL QUALITY MANAGEMENT
36. IT482 INFORMATION STORAGE MANAGEMENT
37. MA482 APPLIED LINEAR ALGEBRA
38. MA484 OPERATIONS RESEARCH

39. MA486 ADVANCED NUMERICAL COMPUTATIONS
40. MA488 CRYPTOGRAPHY
41. ME471 OPTIMIZATION TECHNIQUES
42. ME482 ENERGY CONSERVATION AND MANAGEMENT
43. ME484 FINITE ELEMENT ANALYSIS
44. MP469 INDUSTRIAL PSYCHOLOGY & ORGANIZATIONAL BEHAVIOUR
45. MP482 PRODUCT DEVELOPMENT AND DESIGN
46. MP484 PROJECT MANAGEMENT
47. MR482 MECHATRONICS
48. MT482 INDUSTRIAL SAFETY
49. SB482 DREDGERS AND HARBOUR CRAFTS

General Guidelines
1. Non departmental electives are courses offered by a department for students of other departments.
2. Students of a department cannot choose a course offered by his/her department. The college shall ensure this.
3. Also, the college should ensure that a student does not choose a course having contents in courses which he/she has studied in previous semester or is studying in the 8th Semester.
4. Each department should offer minimum one Non departmental elective.
5. Maximum number of students in a batch for non departmental elective shall be in the range 50-60 and minimum number around {Total students/(1.5*No of batches)}.
6. The syllabus of ND electives is available in KTU website.