



1.2 Academic Flexibility

1.2.1 Percentage of Programs in which Choice Based Credit System (CBCS)/ Elective Course System

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Curriculum for B.Tech Civil Engineering Degree Semesters III to VIII 2016

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

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CURRICULUM FOR THIRD AND HIGHER SEMESTERS

APRIL 2016

Branch	Page
1. Aeronautical Engineering	02
2. Applied Electronics and Instrumentation Engineering	07
3. Automobile Engineering	12
4. Biomedical Engineering	17
5. Biotechnology	22
6. Chemical Engineering	27
7. Civil Engineering	32
8. Computer Science and Engineering	37
9. Electrical and Electronics Engineering	42
10. Electronics and Biomedical Engineering	47
11. Electronics and Communication Engineering	52
12. Food Technology	57
13. Industrial Engineering	62
14. Information Technology	67
15. Instrumentation and Control Engineering	72
16. Mechanical Engineering	77
17. Mechanical (Automobile) Engineering	82
18. Mechanical (Production Engineering)	87
19. Mechatronics Engineering	92
20. Metallurgy	97
21. Naval Architecture and Ship Building	102
22. Production Engineering	107



SEMESTER - 3

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA201	Linear Algebra & Complex Analysis	3-1-0	4	A
CE201	Mechanics of Solids	3-1-0	4	B
CE203	Fluid Mechanics I	3-1-0	4	C
CE205	Engineering Geology	3-0-1	4	D
CE207	Surveying	3-0-0	3	E
HS200/ HS210	Business Economics/Life Skills	3-0-0/ 2-0-2	3	F
CE231	Civil Engineering Drafting Lab	0-0-3	1	S
CE233	Surveying Lab	0-0-3	1	T

Total Credits = 24

Hours: 28/29 Cumulative Credits= 71

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
CE202	Structural Analysis I	3-1-0	4	B
CE204	Construction Technology	4-0-0	4	C
CE206	Fluid Mechanics II	3-0-0	3	D
CE208	Geotechnical Engineering I	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
CE232	Materials Testing Lab I	0-0-3	1	S
CE234	Fluid Mechanics Lab	0-0-3	1	T

Total Credits = 2

Hours 28/27 Cumulative Credits= 94



SEMESTER - 5

<i>Course Code</i>	<i>Course Name</i>	<i>L-T-P</i>	<i>Credits</i>	<i>Exam Slot</i>
CE301	Design of Concrete Structures I	3-1-0	4	A
CE303	Structural Analysis II	3-0-0	3	B
CE305	Geotechnical Engineering II	3-0-0	3	C
CE307	Geomatics	3-0-0	3	D
CE309	Water Resources Engineering	3-0-0	3	E
	Elective 1	3-0-0	3	F
CE341	Design Project	0-1-2	2	S
CE331	Materials Testing Lab II	0-0-3	1	T
CE333	Geotechnical Engineering Lab	0-0-3	1	U

Total Credits = 23

Hours: 28

Cumulative Credits= 117

Elective 1:-

1. CE361 Advanced Concrete Technology
2. CE363 Geotechnical Investigation
3. CE365 Functional Design of Buildings
4. CE367 Water Conveyance Systems
5. CE369 Disaster Management
6. CE371 Environment and Pollution
7. CE373 Advanced Mechanics of Material



SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
CE302	Design of Hydraulic Structures	4-0-0	4	A
CE304	Design of Concrete Structures II	3-0-0	3	B
CE306	Computer Programming and Computational Techniques	3-0-0	3	C
CE308	Transportation Engineering, I	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 2	3-0-0	3	F
CE332	Transportation Engineering Lab	0-0-3	1	S
CE334	Computer Aided Civil Engineering Lab	0-0-3	1	T
CE352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23

Hours: 27

Cumulative Credits= 140

Elective 2:-

1. CE362 Ground Improvement Techniques
2. CE364 Advanced Foundation Engineering
3. CE366 Traffic Engineering and Management
4. CE368 Prestressed Concrete
5. CE372 Engineering Hydrology
6. CE374 Air Quality Management



SEMESTER – 7

Course Code	Course Name	L-T-P	Credits	Exam Slot
CE401	Design of Steel Structures	4-0-0	4	A
CE403	Structural Analysis III	3-0-0	3	B
CE405	Environmental Engineering I	3-0-0	3	C
CE407	Transportation Engineering II	3-0-0	3	D
CE409	Quantity Surveying and Valuation	3-0-0	3	E
	Elective 3	3-0-0	3	F
CE451	Seminar & Project Preliminary	0-1-4	2	S
CE431	Environmental Engineering Lab	0-0-3	1	T

Total Credits = 22

Hours: 27

Cumulative Credits= 162

Elective 3:-

1. CE461 Water Hydrodynamics and Coastal Engineering
2. CE463 Bridge Engineering
3. CE465 Geo-Environmental Engineering
4. CE467 Highway Pavement Design
5. CE469 Environmental Impact Assessment
6. CE471 Advanced Structural Design
7. CE473 Advanced Computational Techniques and Optimization



SEMESTER – 8

<i>Course Code</i>	<i>Course Name</i>	<i>L-T-P</i>	<i>Credits</i>	<i>Exam Slot</i>
CE402	Environmental Engineering II	3-0-0	3	A
CE404	Civil Engineering Project Management	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
CE492	Project		6	

Total Credits = 18

Hours: 30

Cumulative Credits= 180

Elective 4:-

1. CE462 Town and Country Planning
2. CE464 Reinforced Soil Structures and Geo synthetics
3. CE466 Finite Element Methods
4. CE468 Structural Dynamics and Earthquake Resistant Design
5. CE472 Transportation Planning
6. CE474 Municipal Solid Waste Management



ELECTIVE 5 (NON DEPARTMENTAL ELECTIVE COURSES)

1. AO482 AUTOMOTIVE AERODYNAMICS
2. AE482 INDUSTRIAL INSTRUMENTATION
3. AE484 INSTRUMENTATION SYSTEM DESIGN
4. AU484 MICROPROCESSOR AND EMBEDDED SYSTEMS
5. AU486 NOISE, VIBRATION AND HARSHNESS
6. BM482 BIOMEDICAL INSTRUMENTATION
7. BM484 MEDICAL IMAGING & IMAGE PROCESSING TECHNIQUES
8. BT482 DESIGN OF BIOLOGICAL WASTEWATER SYSTEMS
9. BT484 SUSTAINABLE ENERGY PROCESSES
10. CH482 PROCESS UTILITIES AND PIPE LINE DESIGN
11. CH484 FUEL CELL TECHNOLOGY
12. CE482 ENVIRONMENTAL IMPACT ASSESSMENT
13. CE484 APPLIED EARTH SYSTEMS
14. CE486 GEO INFORMATICS FOR INFRASTRUCTURE MANAGEMENT
15. CE488 DISASTER MANAGEMENT
16. CE492 ENVIRONMENT HEALTH AND SAFETY
17. CS482 DATA STRUCTURES
18. CS484 COMPUTER GRAPHICS
19. CS486 OBJECT ORIENTED PROGRAMMING
20. CS488 C # AND .NET PROGRAMMING
- 21. EE482 ENERGY MANAGEMENT AND AUDITING**
22. EE484 CONTROL SYSTEMS
23. EE486 INDUSTRIAL AUTOMATION
24. EE488 INSTRUMENTATION SYSTEMS
25. EE492 SOFT COMPUTING



- 26. EC482 BIOMEDICAL ENGINEERING
- 27. FT482 FOOD PROCESS ENGINEERING
- 28. FT484 FOOD STORAGE ENGINEERING
- 29. FT486 FOOD ADDITIVES AND FLAVOURING
- 30. IE482 FINANCIAL MANAGEMENT
- 31. IE484 INTRODUCTION TO BUSINESS ANALYTICS
- 32. IE486 DESIGN AND ANALYSIS OF EXPERIMENTS
- 33. IE488 TOTAL QUALITY MANAGEMENT**
- 34. IC482 BIOMEDICAL SIGNAL PROCESSING
- 35. IT482 INFORMATION SYSTEM MANAGEMENT
- 36. MA482 APPLIED LINEAR ALGEBRA
- 37. MA484 OPERATIONS RESEARCH
- 38. MA486 ADVANCED NUMERICAL COMPUTATIONS
- 39. MA488 CRYPTOGRAPHY (Not for IT branch)
- 40. ME469 FINITE ELEMENT ANALYSIS
- 41. ME482 ENERGY CONSERVATION AND MANAGEMENT
- 42. ME471 OPTIMIZATION TECHNIQUES
- 43. MP482 PRODUCT DEVELOPMENT AND DESIGN
- 44. MP469 INDUSTRIAL PSYCHOLOGY & ORGANIZATIONAL BEHAVIOUR**
- 45. MP484 PROJECT MANAGEMENT
- 46. MT482 INDUSTRIAL SAFETY**
- 47. MR482 MECHATRONICS
- 48. FS482 RESPONSIBLE ENGINEERING**
- 49. SB482 DREDGERS AND HARBOUR CRAFTS
- 50. HS482 PROFESSIONAL ETHICS



ACADEMIC YEAR 2019-20

B. TECH CIVIL ENGINEERING

	Programme code	Programme name	Year of introduction	Semester	Subject name
1	B. TECH CE	CE	2016(KTU)	S5	ADVANCED CONCRETE TECHNOLOGY
2	B. TECH CE	CE	2016(KTU)	S5	GEOTECHNICAL INVESTIGATION
3	B. TECH CE	CE	2016(KTU)	S6	TRAFFIC ENGINEERING AND MANAGEMENT
4	B. TECH CE	CE	2016(KTU)	S7	HIGHWAY PAVEMENT DESIGN
5	B. TECH CE	CE	2016(KTU)	S7	ENVIRONMENTAL IMPACT ASSESSMENT
6	B. TECH CE	CE	2016(KTU)	S8	MUNICIPAL SOLID WASTE MANAGEMENT
7	B. TECH CE	CE	2016(KTU)	S8	RESPONSIBLE ENGINEERING
8	B. TECH CE	CE	2016(KTU)	S8	TOTAL QUALITY MANAGEMENT
9	B. TECH CE	CE	2016(KTU)	S8	INDUSTRIAL PSYCHOLOGY AND ORGANISATIONAL BEHAVIOUR
10	B. TECH CE	CE	2016(KTU)	S8	INDUSTRIAL SAFETY



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CLASS :	S5 CE
ELECTIVE :	CE 361-ADVANCED CONCRETE TECHNOLOGY
SL NO	NAME
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3	AJITH LAL
4	AKHIL JAMES
5	AKSHAY XAVIER
6	ALEN K BINO
7	ALMA VIMAL JOHNS
8	AMAL S
9	ANASWARA PRASAD
10	ANILA GOPI
11	ANITTA ELIZABATHU BENNY
12	ANJU ANTONY
13	ARAVIND VENUGOPAL
14	BASIL ACHENKUNJU
15	EDWIN JOLLY
16	FEMINA KASSIM
17	KOCHU THRESYA SOJAN
18	MANU BIJU
19	MERIYA ROBIN
20	R S RIYA NAIR
21	ROSHAN REGI
22	SANDRA ELSA PAUL
23	SARA JOSEPH
24	SREEPARVATHY M SUBASH
25	NIHALA JAMAL
26	AHIN ROY
27	AKSHAY R
28	ALEENA SHAJU



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30	AMAL JOSEPH JOHN
31	AMEENA RAFEEK
32	ANJALIN JOBY
33	ANMY SAJU
34	ANNA JOSE
35	BASIL JOHNSON MATHEW
36	BASIL VARGHESE
37	DONIYA SUNNY
38	EBIN BELJI
39	EBIN PAUL
40	ELDHOSE B ABRAHAM
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46	NIDHIN RAJENDRAN
47	PETER JOSE
48	ROSERANI JOSE THOTTAN
49	SAMAD AADIL M N
50	SARATH PETER
51	SHARUN K
52	MAHIN AMEER (CR)




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CLASS :	S5 CE
ELECTIVE :	CE 363-GEOTECHNICAL INVESTIGATION
SL NO	NAME
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3	ALEENA LAL
4	AMMU DAS
5	ANAND S
6	ANN MARIA TONY
7	ARUN AUGUSTINE
8	ARVIND S
9	ATHIRA K C
10	ATHIRA SUNIL
11	BASIL JOHN
12	BASIL SANTHOSH
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14	BINCY BABY
15	DHIYA SHANTO
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17	EVELYN ANTONY
18	FARIS MOHAMMED
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23	KRISHNA BABY
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25	NIJA S M
26	PAUL P SHIBU
27	SAFNA K MUHAMMED
28	SHERWIN SURESH



29	VARGHESEKUTTY B
30	AFNA V S
31	AMITHA RAJ
32	ANIL MATHEW
33	ANJU BOBAN
34	ANU SIDHICK
35	ARAAVIND MOHAN P
36	ARJUN K RAJEEV
37	ASWATHY MANOJ
38	ATHIRA B
39	AYONA V GEORGE
40	BAIS SABU
41	BHAGYALAKSHMI BAIJU
42	DEVIKA SUNIL
43	ELIZABETH GIJU
44	IRIN MARY SHAJU
45	KAVYA PAUL CHAKKALAKAL
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47	MARIA TOM
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51	SARANYA RAJEEV
52	SARASWATHI J
53	SONAT SEBASTIAN
54	SONI SHAJU
55	SULFATH P I
56	TREASA JAMES
57	VISAKH PRASAD K



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8	ARJUN MADHUSOODHANAN
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28	ANEENA WILSON



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41	PRATHEEKSH JOSHY
42	RAHUL RAJ
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8	ANCY JOHN
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10	AVANI MOHAN
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35	ADHARSH UNNIKRISHNAN
36	ADWAITH B
37	AJIN JOHN
38	AKASH VENU
39	ALAN MATHEW
40	ALBIN ANTONY
41	ALMITHA JAMES POOVELI
42	AMIYON S THEKKUMKATTIL
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44	ANGEL ROY
45	ARDHRA RAGHAVAN
46	BADUSHA KANI
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56	GEORGE M ROY
57	IRIN ANN ISAC
58	ITTOOP R ANCHERIL



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63	JUDE LUKOSE
64	MATHEWS MATHEW
65	MERINMARY BASIL
66	RANI J MARY KURIAN
67	ROHITH JERRY
68	SNEHA JOSE
69	TONY PHILIP
70	VARSHA ANTONY




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ELECTIVE :	CE 474 MUNICIPAL SOLID WASTE MANAGEMENT
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3	AFSHAN NIZAR
4	AJEENA BABY
5	AJU J GEORGE
6	AKASH JOSE
7	AKHIL SUNIL
8	ALBIN BENNY
9	ALBIN SUNNY
10	AMALA THOMAS
11	AMITHA EMMANUEL
12	ANCY JOHN
13	ANISH SUDARSAN
14	ANITTA THOMAS
15	ANNMARY VINCENT
16	ARJUN MADHUSOODHANAN
17	ASHMY YOOSEPH
18	ASWATHY RAJAN
19	AVANI MOHAN
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21	BASIL VARGHESE JHONI
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23	BIBY BIJU
24	CYRIL GEORGE
25	DANI GEORGE
26	DEEPANJALY S SHAJU
27	FIZA SHAMEER



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31	HELENA BINOY
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33	JAISIL JACOB
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40	MATHEW J PUTHIYADAM
41	NABEEL P SAINUDEEN
42	NEENU K GEORGE
43	PAUL SHAJI
44	PRANAV KRISHNA
45	RAHUL P
46	RENS SIBY
47	REVATHY G KARTHA
48	ROSHAN SHANAVAS
49	SAGAR TOMY
50	SANDRA ROJAS
51	SHALIN K SHAJI
52	SOJA KURIAKOSE
53	SREELAKSHMI R
54	TEXLA FELIX
55	THOMS V SANTHOSH
56	VISHNU DILIP
57	ABHINAND S
58	ABRIN SAMSON



59	ADHARSH UNNIKRISHNAN
60	ADWAITH B
61	AJIN JOHN
62	AJWIN JOSE FRANCIS
63	AKASH VENU
64	ALAN MATHEW
65	ALBIN ANTONY
66	ALEN THOMAS
67	ALMITHA JAMES POOVELI
68	AMIYON S THEKKUMKATTIL
69	ANANDHU SOMAN
70	ANEENA WILSON
71	ANGEL ROY
72	ANJANA JAYAKUMAR
73	ANOOP K V
74	ANTO PAUL
75	ARDHRA RAGHAVAN
76	ASHNA HAMEED
77	ATHIRA BIJU
78	BADUSHA KANI
79	BASIL M BINU
80	BENILA RAJ
81	BIYA MARIYA JACOB
82	CHARLES GEORGE
83	DAMY JOSE
84	DEEPAK NARENDRAN
85	DIYA GEORGE
86	DONA ELIZEBETH DOLLY
87	FATHIMA SHIRIN
88	FATHIMA SONU K SHUKKOOR
89	GADHA DHANANJAY



90	GEORGE A OLIAPURAM
91	GEORGE M ROY
92	IRIN ANN ISAC
93	ITTOOP R ANCHERIL
94	JAISON JAMES
95	JESNA NICHOLAS
96	JILLS ROY
97	JONATH SHIBU PULLORKUDYIL
98	JOSMY GEORGE
99	JUDE LUKOSE
100	KEVIN JOSEPH
101	MATHEWS MATHEW
102	MERINMARY BASIL
103	NIGHA BENNY
104	P S MEERA
105	PRATHEEKSH JOSH Y
106	RAHUL RAJ
107	RANI J MARY KURIAN
108	RINCY JOHNY
109	ROHITH JERRY
110	SNEHA JOSE
111	TONY PHILIP
112	UNNIMAYA SHYMON
113	VARSHA ANTONY




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CLASS :	S8 CE
ELECTIVE :	FS 482 RESPONSIBLE ENGINEERING
SL NO	NAME
1	ABRAHAM REGI
2	AMITHA EMMANUEL
3	BENSY BABY
4	DEEPANJALY S S SHAJU
5	GAYATHRI BIJU
6	HELENA BINOY
7	HEMA MADHU
8	JANET VARGHESE
9	KRISHNAPRIYA K S
10	VISHNU DILIP
11	ADWAITH B
12	AJIN JOHN
13	ALMITHA JAMES POOVELI
14	ANANDHU SOMAN
15	ANOOP K V
16	BIYA MARIYA JACOB
17	GADHA DHANANJAY
18	IRIN ANN ISAC
19	MERINMARY BASIL
20	RANI J MARY KURIAN



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CLASS :	S8 CE
ELECTIVE :	IE 488 TOTAL QUALITY MANAGEMENT
SL NO	NAME
1	ALBIN SUNNY
2	AMALA THOMAS
3	ANITTA THOMAS
4	BASIL K ALIAS
5	BASIL VARGHESE JHONI
6	FIZA SHAMEER
7	GOVIND S
8	JAISIL JACOB
9	JILS ROY
10	LEONA SOJAN
11	MATHEW J PUTHIYADAM
12	ROSHAN SHANAVAS
13	SHALIN K SHAJI
14	THOMS V SANTHOSH
15	AMIYON S THEKKUMKATTIL
16	ANJANA JAYAKUMAR
17	ARDHRA RAGHAVAN
18	BADUSHA KANI
19	BENILA RAJ
20	DIYA GEORGE
21	DONA ELIZEBETH DOLLY
22	FATHIMA SONU K SHUKKOOR
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24	JUDE LUKOSE
25	PRATHEEKSH JOSH
26	RINCY JOHNY
27	ROHITH JERRY
	SNEHA JOSE



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CLASS :	S8 CE
ELECTIVE :	MP 469 INDUSTRIAL PSYCHOLOGY & ORGANISATIONAL BEHAVIOUR
SL NO	NAME
1	ADARSH MATHEW
2	AJEENA BABY
3	AJU J GEORGE
4	AKASH JOSE
5	ALBIN BENNY
6	ANCY JOHN
7	ARJUN MADHUSOODHANAN
8	ASWATHY RAJAN
9	AVANI MOHAN
10	CYRIL GEORGE
11	JINTO ELDHOSE
12	NABEEL P SAINUDEEN
13	NEENU K GEORGE
14	PRANAV KRISHNA
15	RENS SIBY
16	SAGAR TOMY
17	SANDRA ROJAS
18	SREELAKSHMI R
19	ABHINAND S
20	ABRIN SAMSON
21	ADHARSH UNNIKRISHNAN
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27	ANEENA WILSON



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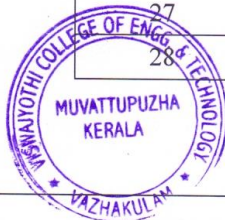
28	ANTO PAUL
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36	RAHUL RAJ
37	UNNIMAYA SHYMON




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CLASS :	S8 CE
ELECTIVE :	MT 482 INDUSTRIAL SAFETY
SL NO	NAME
1	AFSHAN NIZAR
2	AKHIL SUNIL
3	ANISH SUDARSAN
4	ANNMARY VINCENT
5	ASHMY YOOSEPH
6	BIBY BIJU
7	DANI GEORGE
8	GIJO PAUL
9	JEWEL JOSE
10	PAUL SHAJI
11	RAHUL P
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Curriculum for B. Tech Computer Science Engineering Degree Semesters III to VIII 2016

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

B.TECH CURRICULUM FOR THIRD AND HIGHER SEMESTERS

APRIL 2016

Branch	Page
1. Aeronautical Engineering	02
2. Applied Electronics and Instrumentation Engineering	07
3. Automobile Engineering	12
4. Biomedical Engineering	17
5. Biotechnology	22
6. Chemical Engineering	27
7. Civil Engineering	32
8. Computer Science and Engineering	37
9. Electrical and Electronics Engineering	42
10. Electronics and Biomedical Engineering	47
11. Electronics and Communication Engineering	52
12. Food Technology	57
13. Industrial Engineering	62
14. Information Technology	67
15. Instrumentation and Control Engineering	72
16. Mechanical Engineering	77
17. Mechanical (Automobile) Engineering	82
18. Mechanical (Production Engineering)	87
19. Mechatronics Engineering	92
20. Metallurgy	97
21. Naval Architecture and Ship Building	102
22. Production Engineering	107
23. Safety and Fire Engineering	112



BRANCH: *Computer Science & Engineering*

SEMESTER - 3

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA201	Linear Algebra & Complex Analysis	3-1-0	4	A
CS201	Discrete Computational Structures	3-1-0	4	B
CS203	Switching Theory and Logic Design	3-1-0	4	C
CS205	Data Structures	3-1-0	4	D
CS207	Electronics Devices & Circuits	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
CS231	Data Structures Lab	0-0-3	1	S
CS233	Electronics Circuits Lab	0-0-3	1	T

Total Credits = 24 Hours: 28/29

Cumulative Credits= 71

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
CS202	Computer Organization and Architecture	3-1-0	4	B
CS204	Operating Systems	3-1-0	4	C
CS206	Object Oriented Design and Programming	2-1-0	3	D
CS208	Principles of Database Design	2-1-0	3	E
HS200/ HS210	Business Economics/Life Skills	3-0-0/ 2-0-2	3	F
CS232	Free and Open Source Software Lab	0-0-3	1	S
CS234	Digital Systems Lab	0-0-3	1	T

Total Credits = 23

Hours 28/27

Cumulative Credits= 94



BRANCH: *Computer Science & Engineering*

SEMESTER - 5

Course Code	Course Name	L-T-P	Credits	Exam Slot
CS301	Theory of Computation	3-1-0	4	A
CS303	System Software	2-1-0	3	B
CS305	Microprocessors and Microcontrollers	2-1-0	3	C
CS307	Data Communication	3-0-0	3	D
CS309	Graph Theory and Combinatorics	2-0-2	3	E
	Elective 1	3-0-0	3	F
CS341	Design Project	0-1-2	2	S
CS331	System Software Lab	0-0-3	1	T
CS333	Application Software Development Lab	0-0-3	1	U

Total Credits = 23

Hours: 29

Cumulative Credits= 117

- Elective 1:-**
1. CS361 Soft Computing
 2. CS363 Signals and Systems
 3. CS365 Optimization Techniques
 4. CS367 Logic for Computer Science
 5. CS369 Digital System Testing & Testable Design



BRANCH: **Computer Science & Engineering**

SEMESTER - 7

Course Code	Course Name	L-T-P	Credits	Exam Slot
CS401	Computer Graphics	4-0-0	4	A
CS403	Programming Paradigms	3-0-0	3	B
CS405	Computer System Architecture	3-0-0	3	C
CS407	Distributed Computing	3-0-0	3	D
CS409	Cryptography and Network Security	3-0-0	3	E
	Elective 3	3-0-0	3	F
CS451	Seminar & Project Preliminary	0-1-4	2	S
CS431	Compiler Design Lab	0-0-3	1	T

Total Credits = 22 Hours: 27
Cumulative Credits= 162

Elective 3:-

1. CS461 Computational Geometry
2. CS463 Digital Image Processing
3. CS465 Bio Informatics
4. CS467 Machine Learning
5. CS469 Computational Complexity



BRANCH: Computer Science & Engineering

SEMESTER - 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
CS402	Data Mining and Ware Housing	3-0-0	3	A
CS404	Embedded Systems	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
CS492	Project		6	

Total Credits = 18 Hours: 30
Cumulative Credits= 180

Elective 4:-

1. CS462 Fuzzy Set Theory and Applications
2. CS464 Artificial Intelligence
3. CS466 Data Science
4. CS468 Cloud Computing
5. CS472 Principles of Information Security



ELECTIVE 5 (NON DEPARTMENTAL ELECTIVE COURSES)

1. AO482 AUTOMOTIVE AERODYNAMICS
2. AE482 INDUSTRIAL INSTRUMENTATION
3. AE484 INSTRUMENTATION SYSTEM DESIGN
4. AU484 MICROPROCESSOR AND EMBEDDED SYSTEMS
5. AU486 NOISE, VIBRATION AND HARSHNESS
6. BM482 BIOMEDICAL INSTRUMENTATION
7. BM484 MEDICAL IMAGING & IMAGE PROCESSING TECHNIQUES
8. BT482 DESIGN OF BIOLOGICAL WASTEWATER SYSTEMS
9. BT484 SUSTAINABLE ENERGY PROCESSES
10. CH482 PROCESS UTILITIES AND PIPE LINE DESIGN
11. CH484 FUEL CELL TECHNOLOGY
12. CE482 ENVIRONMENTAL IMPACT ASSESSMENT
13. CE484 APPLIED EARTH SYSTEMS
14. CE486 GEO INFORMATICS FOR INFRASTRUCTURE MANAGEMENT
- 15. CE488 DISASTER MANAGEMENT**
16. CE492 ENVIRONMENT HEALTH AND SAFETY
17. CS482 DATA STRUCTURES
18. CS484 COMPUTER GRAPHICS
19. CS486 OBJECT ORIENTED PROGRAMMING
20. CS488 C # AND .NET PROGRAMMING
21. EE482 ENERGY MANAGEMENT AND AUDITING
22. EE484 CONTROL SYSTEMS



- 23. EE486 INDUSTRIAL AUTOMATION
- 24. EE488 INSTRUMENTATION SYSTEMS
- 25. EE492 SOFT COMPUTING
- 26. EC482 BIOMEDICAL ENGINEERING
- 27. FT482 FOOD PROCESS ENGINEERING
- 28. FT484 FOOD STORAGE ENGINEERING
- 29. FT486 FOOD ADDITIVES AND FLAVOURING
- 30. IE482 FINANCIAL MANAGEMENT
- 31. IE484 INTRODUCTION TO BUSINESS ANALYTICS
- 32. IE486 DESIGN AND ANALYSIS OF EXPERIMENTS
- 33. IE488 TOTAL QUALITY MANAGEMENT
- 34. IC482 BIOMEDICAL SIGNAL PROCESSING
- 35. IT482 INFORMATION SYSTEM MANAGEMENT**
- 36. MA482 APPLIED LINEAR ALGEBRA
- 37. MA484 OPERATIONS RESEARCH
- 38. MA486 ADVANCED NUMERICAL COMPUTATIONS
- 39. MA488 CRYPTOGRAPHY (Not for IT branch)
- 40. ME469 FINITE ELEMENT ANALYSIS
- 41. ME482 ENERGY CONSERVATION AND MANAGEMENT
- 42. ME471 OPTIMIZATION TECHNIQUES
- 43. MP482 PRODUCT DEVELOPMENT AND DESIGN
- 44. MP469 INDUSTRIAL PSYCHOLOGY & ORGANIZATIONAL BEHAVIOUR**
- 45. MP484 PROJECT MANAGEMENT
- 46. MT482 INDUSTRIAL SAFETY
- 47. MR482 MECHATRONICS
- 48. FS482 RESPONSIBLE ENGINEERING
- 49. SB482 DREDGERS AND HARBOUR CRAFTS
- 50. HS482 PROFESSIONAL ETHICS



ACADEMIC YEAR 2019-2020

SL. No.	Programme code	Programme name	Year of introduction	Semester	Subject name
1	B. TECH CSE	CSE	2016	S5	SOFT COMPUTING
2	B. TECH CSE	CSE	2016	S6	WEB TECHNOLOGIES
3	B. TECH CSE	CSE	2016	S7	DIGITAL IMAGE PROCESSING
4	B. TECH CSE	CSE	2016	S8	PRINCIPLES OF INFORMATION SECURITY
5	B. TECH CSE	CSE	2016	S8	DISASTER MANAGEMENT
6	B. TECH CSE	CSE	2016	S8	INDUSTRIAL PSYCHOLOGY AND ORGANISATIONAL BEHAVIOUR
7	B. TECH CSE	CSE	2016	S8	INFORMATION STORAGE MANAGEMENT



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CLASS :	S5 CSE
ELECTIVE :	CS361 SOFT COMPUTING
CLASS :	S5 CSE A
SL NO	NAME
1	ABIN P JOY
2	ABINA GEORGE
3	AKHIL P VIJAYAN
4	AKSA GEORGE
5	ALAN SEBASTIAN
6	ALBIN ROY
7	AMITHA MANI
8	ANIRUDH RAJEEV
9	ANNA MARIA SAJU
10	ANNIE ROY JOHN
11	ANNS MOL VINSON
12	ARSHA PAULOSE
13	ASWIN C ASOK
14	AVINASH AVIRACHAN
16	BASIL SANTHOSH
17	BHAGYA SANKAR
18	BINCY CHRISTINE SABU
19	CHRIS JIJI THANKACHEN
20	DEEPAK D KRISHNA
21	DELJO GEORGE JOSE
22	DELVIN TOMY
23	DIVYA SABU
24	DONAL SHIJAN
25	EBIN SHABU
26	ELESEBATH ROY



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27	ELSON JOSE
28	EVLIN JOE
29	FEBIN BENNY
30	GEORGE JOSE
31	HEJA VINCENT
32	JESLEY VINCENT
33	JIYA BRIGIT JAISON
34	JOBIN VINCENT
35	JOEL TOMY GEORGE
36	JOSEPH ROBY
37	KIRAN RAMESH
38	LEO JOHNS
39	MERIN VARGHESE
40	NEHA JOSH Y
41	NIHAL NAZ
42	NIMMY ANN NELSON
43	PAUL B ARACKAL
44	RESMI RAJU
45	ROHINI ANILKUMAR
46	ROSHY R
47	ROY JOSEPH
48	RYAN THOMAS TONEESH
49	S KARTHIKA
50	SANDRA JAISON
51	SEAN SANTHOSH JOSEPH
52	SNEHA ANNA ROY
53	STEPHEN GEORGE
54	SUMITH SUNNY
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CLASS :	S5 CSE
ELECTIVE:	CS361 SOFT COMPUTING
CLASS :	S5 CSE B
SL NO	NAME
1	ABIL DAS A J
2	AGNA SUSAN GEORGE
3	AKASH PHILIP SAJI
4	ALBIN REJI
5	ALLEN P BIJU
6	AMULYA C BOSE
7	ANAGHA SURESH
8	ANANTHAKRISHNAN S NATH
9	ANCE PAUL
10	ANITTA PHELIX
11	ANJANA SHAJI
12	ANN MARY JOHN
13	ANN MARY JOSE
14	ANNS MARY FRANCIS
15	APARNA SASI
16	ASHWIN SAJEEV
17	ATHUL JOHNS
18	BIBIN ABRAHAM
19	CHINJU RANI PAUL
20	DARAL NOBLE
21	DEVIKA SURESH KUMAR
22	ELSON SCARIA
23	GINU MARY GEORGE
24	GOVIND V SHENOY
25	GRACE MARIA
26	JESLIN JOMON
27	JETSON JOSEPH



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29	JILBY BABY
30	JINTA JOSEPH
31	JITHIN BABU
32	JOAN SUSAN JACOB
33	JOB JOSEKUTTY
34	JOSEPH BENNY
35	JOSEPH JAMES
36	JUDY ABRAHAM
37	KATHERIN JOSE
38	KIRAN SHAJI AUGUSTINE
39	LINU ALPHONSA BABY
40	MARIA GEORGE
41	MATHEWS BENNY
42	MELVIN VINCENT
43	MELWIN MATHEW
44	MERVIN THOMAS CHACKO
45	MIRZA BENNY
46	NISHAL VARGHESE
47	PRANAV WARRIER
48	RAHUL J
49	REEMA RAJU
50	RESHMA SUNNY
51	ROBIN SAJU
52	SHAN BABU
53	SONA JAMES
54	SONY MATHEW
55	SUDEV S
56	SUSANNA ROY
57	CHRISTEENA JOHN




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CLASS :	S6 CSE
PAPER :	CS368 WEB TECHNOLOGIES
CLASS :	S6CSE A
SL NO	NAME
1	ABINA GEORGE
2	ABIN P JOY
3	AKHIL P VIJAYAN
4	AKSA GEORGE
5	ALAN SEBASTIAN
6	ALBIN ROY
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8	ANIRUDH RAJEEV
9	ANNA MARIA SAJU
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34	JOEL TOMY GEORGE
35	JOSEPH ROBY



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PAPER :	CS368 WEB TECHNOLOGIES
CLASS :	S6CSE B
SL NO	NAME
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15	APARNA SASI
16	ASHWIN SAJEEV
17	ATHUL JOHNS
18	BIBIN ABRAHAM
19	CHINJU RANI PAUL
20	DARAL NOBLE
21	DEVIKA SURESH KUMAR
22	ELSON SCARIA
23	GINU MARY GEORGE
24	GOVIND V SHENOY
25	GRACE MARIA
26	JESLIN JOMON
27	JETSON JOSEPH
28	JEVIN JOJO
29	JILBY BABY
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35	JOSEPH JAMES



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36	JUDY ABRAHAM
37	KATHERIN JOSE
38	KIRAN SHAJI AUGUSTINE
39	LINU ALPHONSA BABY
40	MARIA GEORGE
41	MATHEWS BENNY
42	MELVIN VINCENT
43	MELWIN MATHEW
44	MERVIN THOMAS CHACKO
45	MIRZA BENNY
46	NISHAL VARGHESE
47	PRANAV WARRIER
48	RAHUL J
49	REEMA RAJU
50	RESHMA SUNNY
51	ROBIN SAJU
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53	SONA JAMES
54	SONY MATHEW
55	SUDEV S
56	SUSANNA ROY




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CLASS :	S6 CSE
ELECTIVE :	CS 463 DIGITAL IMAGE PROCESSING
CLASS :	S7 CSE A
SL NO	NAME
1	ABEL THOMAS JAISON
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CLASS :	S8 CSE
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CLASS :	S8 CSE
ELECETIVE:	CE488 DISATER MANAGEMENT
CLASS :	S8 CSE A
SL NO	NAME
1	ALANA TOMY
2	ALLEN ABY
3	ANEESHA STALIN
4	ANJU SUSAN KURIAKOSE
5	GEORGE MATHEW
6	JINTU JUSTIN
7	NILEENA FRANCIS
8	POOJA RAJU
9	RAMYA KRISHNA R
10	RESHMA BINU
11	SHWETHA SHAJI
12	SUSAN ABY




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CLASS :	S8 CSE
ELECETIVE :	MP469-INDUSTRIAL PSYCHOLOGY AND ORGANISATIONAL BEHAVIOUR
CLASS :	S8 CSE A
SL NO	NAME
1	ABHINAV P ANIL
2	ADARSH S CHUNDATTU
3	AKHIL ABRAHAM
4	AKHIL GEORGE
5	AKSHAYA THOMAS
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CLASS :	S8 CSE
ELECTIVE :	IT-481 INFORMATION STORAGE MANAGEMENT
CLASS :	S8 CSE A
SL NO	NAME
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2	ANANTHU SANTHOSH
3	ARAVIND M S
4	ARLIN JOSE
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Curriculum for

B.Tech

Electrical and Electronics Engineering

Degree

Semesters III to VIII

2016

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B.TECH CURRICULUM FOR THIRD AND HIGHER SEMESTERS

APRIL 2016

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2. Applied Electronics and Instrumentation Engineering	07
3. Automobile Engineering	12
4. Biomedical Engineering	17
5. Biotechnology	22
6. Chemical Engineering	27
7. Civil Engineering	32
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9. Electrical and Electronics Engineering	42
10. Electronics and Biomedical Engineering	47
11. Electronics and Communication Engineering	52
12. Food Technology	57
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14. Information Technology	67
15. Instrumentation and Control Engineering	72
16. Mechanical Engineering	77
17. Mechanical (Automobile) Engineering	82
18. Mechanical (Production Engineering)	87
19. Mechatronics Engineering	92
20. Metallurgy	97
21. Naval Architecture and Ship Building	102
22. Production Engineering	107
23. Safety and Fire Engineering	112



BRANCH: *Electrical & Electronics Engineering*

SEMESTER - 3

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA201	Linear Algebra & Complex Analysis	3-1-0	4	A
EE201	Circuits and Networks	3-1-0	4	B
EE203	Analog Electronic Circuits	3-1-0	4	C
EE205	DC Machines and Transformers	3-1-0	4	D
EE207	Computer Programming	2-1-0	3	E
HS200/ HS210	Business Economics/Life Skills	3-0-0/ 2-0-2	3	F
EE231	Electronic Circuits Lab	0-0-3	1	S
EE233	Programming Lab	0-0-3	1	T

Total Credits = 24

Hours: 28/29

Cumulative Credits= 71

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
EE202	Synchronous and Induction Machines	3-1-0	4	B
EE204	Digital Electronics and Logic Design	2-1-0	3	C
EE206	Material Science	3-0-0	3	D
EE208	Measurements and Instrumentation	3-1-0	4	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
EE232	Electrical Machines Lab I	0-0-3	1	S
EE234	Circuits and Measurements Lab	0-0-3	1	T

Total Credits = 23

Hours 28/27

Cumulative Credits= 94



BRANCH: *Electrical & Electronics Engineering*

SEMESTER - 5

Course Code	Course Name	L-T-P	Credits	Exam Slot
EE301	Power Generation, Transmission and Protection	3-1-0	4	A
EE303	Linear Control Systems	2-1-0	3	B
EE305	Power Electronics	3-0-0	3	C
EE307	Signals and Systems	3-0-0	3	D
EE309	Microprocessor and Embedded Systems	2-1-0	3	E
	Elective 1	3-0-0	3	F
EE341	Design Project	0-1-2	2	S
EE331	Digital Circuits and Embedded Systems Lab	0-0-3	1	T
EE333	Electrical Machines Lab II	0-0-3	1	U

Total Credits = 23

Hours: 28

Cumulative Credits= 117

- Elective 1:-**
1. EE361 Object Oriented Programming
 2. EE363 Computer Organization and Architecture
 3. EE365 Digital System Design
 4. EE367 New and Renewable Energy Systems
 5. EE369 High Voltage Engineering



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SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
EE302	Electromagnetics	2-1-0	3	A
EE304	Advanced Control Theory	3-1-0	4	B
EE306	Power System Analysis	3-0-0	3	C
EE308	Electric Drives	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 2	3-0-0	3	F
EE332	Systems and Control Lab	0-0-3	1	S
EE334	Power Electronics & Drives Lab	0-0-3	1	T
EE352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23 Hours: 27
Cumulative Credits= 140

Elective 2:-

1. EE362 Data Structures and Algorithms
2. EE364 Switched Mode Power Converters
3. EE366 Illumination Technology
4. EE368 Soft Computing
5. EE372 Biomedical Instrumentation



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SEMESTER - 7

Course Code	Course Name	L-T-P	Credits	Exam Slot
EE401	Electronic Communication	2-1-0	3	A
EE403	Distributed Generation and Smart Grids	3-0-0	3	B
EE405	Electrical System Design	3-1-0	4	C
EE407	Digital Signal Processing	3-0-0	3	D
EE409	Electrical Machine Design	3-0-0	3	E
	Elective 3	3-0-0	3	F
EE451	Seminar & Project Preliminary	0-1-4	2	S
EE431	Power System Lab	0-0-3	1	T

Total Credits = 22 Hours: 27
Cumulative Credits= 162

Elective 3:-

1. EE461 Modern Operating Systems
2. EE463 Computer Aided Power Systems Analysis
3. EE465 Power Quality
4. EE467 Nonlinear Control Systems
5. EE469 Electric and Hybrid Vehicles



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SEMESTER - 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
EE402	Special Electric Machines	3-0-0	3	A
EE404	Industrial Instrumentation & Automation	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
EE492	Project		6	

Total Credits = 18 Hours: 30
Cumulative Credits= 180

Elective 4:-

1. EE462 Design of Digital Control Systems
2. EE464 FACTS
3. EE466 Digital Image Processing
4. EE468 Computer Networks
5. EE472 Internet of Things
6. EE474 Energy Management and Auditing



ELECTIVE 5 (NON DEPARTMENTAL ELECTIVE COURSES)

1. AO482 AUTOMOTIVE AERODYNAMICS
2. AE482 INDUSTRIAL INSTRUMENTATION
3. AE484 INSTRUMENTATION SYSTEM DESIGN
4. AU484 MICROPROCESSOR AND EMBEDDED SYSTEMS
5. AU486 NOISE, VIBRATION AND HARSHNESS
6. BM482 BIOMEDICAL INSTRUMENTATION
7. BM484 MEDICAL IMAGING & IMAGE PROCESSING TECHNIQUES
8. BT482 DESIGN OF BIOLOGICAL WASTEWATER SYSTEMS
9. BT484 SUSTAINABLE ENERGY PROCESSES
10. CH482 PROCESS UTILITIES AND PIPE LINE DESIGN
11. CH484 FUEL CELL TECHNOLOGY
- 12. CE482 ENVIRONMENTAL IMPACT ASSESSMENT**
13. CE484 APPLIED EARTH SYSTEMS
14. CE486 GEO INFORMATICS FOR INFRASTRUCTURE MANAGEMENT
- 15. CE488 DISASTER MANAGEMENT**
16. CE492 ENVIRONMENT HEALTH AND SAFETY
17. CS482 DATA STRUCTURES
18. CS484 COMPUTER GRAPHICS
19. CS486 OBJECT ORIENTED PROGRAMMING
20. CS488 C # AND .NET PROGRAMMING
21. EE482 ENERGY MANAGEMENT AND AUDITING
22. EE484 CONTROL SYSTEMS
23. EE486 INDUSTRIAL AUTOMATION



- 24. EE488 INSTRUMENTATION SYSTEMS
- 25. EE492 SOFT COMPUTING
- 26. EC482 BIOMEDICAL ENGINEERING
- 27. FT482 FOOD PROCESS ENGINEERING
- 28. FT484 FOOD STORAGE ENGINEERING
- 29. FT486 FOOD ADDITIVES AND FLAVOURING
- 30. IE482 FINANCIAL MANAGEMENT
- 31. IE484 INTRODUCTION TO BUSINESS ANALYTICS
- 32. IE486 DESIGN AND ANALYSIS OF EXPERIMENTS
- 33. IE488 TOTAL QUALITY MANAGEMENT
- 34. IC482 BIOMEDICAL SIGNAL PROCESSING
- 35. IT482 INFORMATION SYSTEM MANAGEMENT
- 36. MA482 APPLIED LINEAR ALGEBRA
- 37. MA484 OPERATIONS RESEARCH
- 38. MA486 ADVANCED NUMERICAL COMPUTATIONS
- 39. MA488 CRYPTOGRAPHY (Not for IT branch)
- 40. ME469 FINITE ELEMENT ANALYSIS
- 41. ME482 ENERGY CONSERVATION AND MANAGEMENT
- 42. ME471 OPTIMIZATION TECHNIQUES
- 43. MP482 PRODUCT DEVELOPMENT AND DESIGN
- 44. MP469 INDUSTRIAL PSYCHOLOGY & ORGANIZATIONAL BEHAVIOUR
- 45. MP484 PROJECT MANAGEMENT
- 46. MT482 INDUSTRIAL SAFETY**
- 47. MR482 MECHATRONICS
- 48. FS482 RESPONSIBLE ENGINEERING**
- 49. SB482 DREDGERS AND HARBOUR CRAFTS
- 50. HS482 PROFESSIONAL ETHICS



ACADEMIC YEAR 2019-2020

	Programme code	Programme name	Year of introduction	Semester	Subject name
1	B. TECH EEE	EEE	2016(KTU)	S5	NEW AND RENEWABLE ENERGY SYSTEMS
2	B. TECH EEE	EEE	2016(KTU)	S6	ILLUMINATION ENGINEERING
3	B. TECH EEE	EEE	2016(KTU)	S6	BIOMEDICAL INSTRUMENTATION
4	B. TECH EEE	EEE	2016(KTU)	S7	ELECTRIC AND HYBRID VEHICLES
5	B. TECH EEE	EEE	2016(KTU)	S8	INDUSTRIAL SAFETY
6	B. TECH EEE	EEE	2016(KTU)	S8	RESPONSIBLE ENGINEERING
7	B. TECH EEE	EEE	2016(KTU)	S8	ENVIRONMENTAL IMPACT ASSESSMENT
8	B. TECH EEE	EEE	2016(KTU)	S8	DISASTER MANAGEMENT
9	B. TECH EEE	EEE	2016(KTU)	S8	ENERGY MANAGEMENT AND AUDITING
10	B. TECH EEE	EEE	2016(KTU)	S8	COMPUTER NETWORKS



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CLASS: S5-EE A
ELECTIVE: EE 367 NEW AND RENEWABLE ENERGY SYSTEMS

SL. No	NAME OF STUDENTS
1	ADITHYARAJ P
2	AKHILAMOL JOBY
3	ALANT BOBY
4	ALDO JOY
5	ANEENA ROY
6	ANJALI MARIA JOSE
7	ANNU S GIGI
8	ANSIL SUBAIR
9	ARJUN SURESH
10	ARUN SHAJI
11	ASHMIN SHINOB
12	ASHWIN SAJI JOHN
13	AUGUSTINE MATHEW
14	BASIL BENNY
15	BINTO SUNNY
16	FAYAS T A
17	GADHA SIVAN
18	JOSEPH SEBASTIAN
19	MARIA BENNY
20	MINNU PRAKASH
21	M V KRISHNAN UNNI
22	NIMMI SABU
23	NITHA JAMES
24	NOHAN FRANCIS
25	SACHIN SUNNY
26	SHABNA BASHEER
27	SHILTON WILLIAM
28	SREEJITH PS
29	VISHNU AJAY
30	VRINDAMOL P.V
31	ARAVIND A



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CLASS: S5-EE B
ELECTIVE: EE 367 NEW AND RENEWABLE ENERGY SYSTEMS

SL. No	NAME OFF STUDENTS
1	ABHI RAJAN
2	AJO JOHNY
3	ALIAS JACOB KURIAN
4	AMRUTHA SATHEESH
5	ANN THERESA BENNY
6	APARNA M S
7	ARJUN CHANDRAN
8	ARLIN SAJU
9	ARUN PAUL
10	BISTO JOY
11	DEENA JOHNY
12	ELDHOSSE RAJU
13	H ANAND
14	HARIPRIYA NARAYANAN
15	JOHN MATHEW K ABRAHAM
16	JOSE LOWRANCE
17	KEVIN MATHEW GEORGE
18	MINNU AUGUSTINE
19	NOEL JOHN PAUL
20	PAUL STANLY
21	PHILIP THOMAS
22	RESHMA JOLLY
23	RION ROY
24	RIYAMOL SARA JAYAN
25	ROSHAN GEORGE
26	SREELEKSHMI A N
27	SWANTHANA TREESA JOSE
28	UTHARA PRADEEP
29	YEDUKRISHNA S MENON




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S6 EEE A BATCH

ELECTIVE: EE 366 ILLUMINATION TECHNOLOGY

SL NO	NAME OF STUDENT
1	ALANT BOBY
2	ALDO JOY
3	ANNU S GIGI
4	ANSIL SUBAIR
5	ARUN SHAJI
6	ASHMIN SHINOBO
7	AUGUSTINE MATHEW
8	BASIL BENNY
9	FAYAS T A
10	JOSEPH SEBASTIAN
11	MINNU PRAKASH
12	NOHAN FRANCIS
13	SHABNA BASHEER
14	VISHNU AJAY
15	ARAVIND A




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S6 EEE B BATCH

ELECTIVE: EE 366 ILLUMINATION TECHNOLOGY

SL NO	NAME OF STUDENT
1	ABHI RAJAN
2	AJO JOHNY
3	ALIAS JACOB KURIAN
4	APARNA M S
5	ARJUN CHANDRAN
6	BISTO JOY
7	H ANAND
8	HARIPRIYA NARAYANAN
9	JOHN MATHEW K ABRAHAM
10	JOSE LOWRANCE
11	MINNU AUGUSTINE
12	NOEL JOHN PAUL
13	RESHMA JOLLY
14	RION ROY
15	SWANTHANA TREESA JOSE
16	YEDUKRISHNA S MENON




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S6 EEE A BATCH

ELECTIVE : EE 372 BIOMEDICAL INSTRUMENTATION

SL NO	NAME OF STUDENT
1	ADITHYARAJ P
2	AKHILAMOL JOBY
3	ANEENA ROY
4	ANJALI MARIA JOSE
5	ARJUN SURESH
6	ASHWIN SAJI JOHN
7	BINTO SUNNY
8	GADHA SIVAN
9	MARIA BENNY
10	M V KRISHNAN UNNI
11	NIMMI SABU
12	NITHA JAMES
13	SACHIN SUNNY
14	SHILTON WILLIAM
15	SREEJITH PS
16	VRINDAMOL P.V




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S6 EEE B BATCH

ELECTIVE : EE 372 BIOMEDICAL INSTRUMENTATION

SL NO	NAME OF STUDENT
1	AMRUTHA SATHEESH
2	ANN THERESA BENNY
3	ARLIN SAJU
4	ARUN PAUL
5	DEENA JOHNY
6	ELDHOSE RAJU
7	KEVIN MATHEW GEORGE
8	PAUL STANLY
9	PHILIP THOMAS
10	RIYAMOL SARA JAYAN
11	ROSHAN GEORGE
12	SREELEKSHMI A N
13	UTHARA PRADEEP




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S7 EEE A BATCH

ELECTIVE: EE 469 ELECTRIC AND HYBRID VEHICLE

SL NO.	NAME OF STUDENT
1	ABHIJITH S
2	ABIN ANIL
3	AGGY GEORGE
4	AJAY M JOY
5	AKHIL BIJU
6	AKSHAY SIMON
7	ALEN MARTIN
8	AMMU JOVAN
9	ANAKHA RAJ
10	ANANDHU SELIVAN
11	ANUSREE R
12	ARUN JANARDHANAN NAIR
13	ATHULYA PETER
14	CHRISTY BABY
15	CIRIL KURIAN RISON
16	DIPU JOSEPH VIJOY
17	DON DOMINIC
18	FEBIN BIJU



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19	JESWIN K ANTO
20	JITHU THANKACHAN
21	KRISHNANAND SAJI
22	K S NANDU KRISHNA
23	MIDHUN SAJU
24	MOBIN KOSHY
25	RUBEENA A A
26	SEBASTIAN SANOJ P
27	SOORAJ S SURESH
28	SREENATH S
29	S SANKARANARAYANAN
30	TANIL S KEERIKKATTU
31	THOMAS IKE MATTHEW
32	V T MANOJ
33	SANJAY BABU V L
34	NOYAL V V




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S7 EEE B BATCH

ELECTIVE: EE 469 ELECTRIC AND HYBRID VEHICLE

SL NO	NAME OF STUDENT
1	ABIL JOSE
2	AKASH ASHOKAN
3	ALBERT AUGUSTINE
4	ALWIN ELDHO
5	AMRITHA SATHEESH KUMAR
6	APARNA R NAIR
7	ARCHANA P RAJU
8	ARUN SHALU
9	BINSON SUNNY
10	CLINTO JOE PUNNOOSE
11	DILFINA SAJI
12	EBIN BENNY
13	ELDHO VARGHESE
14	ELDHOS KURIAKOSE
15	JAISON KURIAKOSE
16	JERIN JOVIN
17	JISHNU J
18	JISHNU V
19	JOSEPH VINCENT
20	KIRAN BABU
21	MATHEWS SABU
22	MIDHUN S PARATHARAYIL
23	NAMITHA SHIBU
24	NANDHUKRISHNA B
25	NIKHIL JOSEPH
26	P AKSHAYKUMAR
27	PRANAV SATHYAN
28	RAISA RAZAK
29	TINU GEORGE
30	VARSHA ANTONY
31	VINOD VENUGOPAL
32	RONEY G JOHNSON
33	TINOY ANTONY P B



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S8 EEE A BATCH
ELECTIVE : EE 468 COMPUTER NETWORKS

SL NO	NAME OF STUDENT
1	ABIN ANIL
2	AKSHAY SIMON
3	ALEN MARTIN
4	ANANDHU SELIVAN
5	ANUSREE R
6	ARUN JANARDHANAN NAIR
7	CHRISTY BABY
8	DON DOMINIC
9	JESWIN K ANTO
10	JITHU THANKACHAN
11	KRISHNANAND SAJI
12	MOBIN KOSHY
13	SEBASTIAN SANOJ P
14	SREENATH S
15	V T MANOJ
16	NOYAL V V



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ELECTIVE : EE 468 COMPUTER NETWORKS

SL NO	NAME OF STUDENT
1	APARNA R NAIR
2	CLINTO JOE PUNNOOSE
3	ELDHO VARGHESE
4	JISHNU J
5	JISHNU V
6	JOSEPH VINCENT
7	KIRAN BABU
8	NAMITHA SHIBU
9	NIKHIL JOSEPH
10	P AKSHAYKUMAR
11	PRANAV SATHYAN
12	RAISA RAZAK
13	VINOD VENUGOPAL




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S8 EEE A BATCH
EE 482 ENERGY MANAGEMENT AND AUDITING

SL NO	NAME OF STUDENT
1	ABHIJITH S
2	AGGY GEORGE
3	AJAY M JOY
4	AKHIL BIJU
5	AMMU JOVAN
6	ANAKHA RAJ
7	ATHULYA PETER
8	CIRIL KURIAN RISON
9	DIPU JOSEPH VIJOY
10	FEBIN BIJU
11	K S NANDU KRISHNA
12	MIDHUN SAJU
13	RUBEENA A A
14	SOORAJ S SURESH
15	S SANKARANARAYANAN
16	TANIL S KEERIKKATTU
17	THOMAS IKE MATTHEW
18	SANJAY BABU V L




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S8 EEE B BATCH
EE 482 ENERGY MANAGEMENT AND AUDITING

SL NO	NAME OF STUDENT
1	ABIL JOSE
2	AKASH ASHOKAN
3	ALBERT AUGUSTINE
4	ALWIN ELDHO
5	AMRITHA SATHEESH KUMAR
6	ARCHANA P RAJU
7	ARUN SHALU
8	BINSON SUNNY
9	DILFINA SAJI
10	EBIN BENNY
11	ELDHOS KURIAKOSE
12	JAISON KURIAKOSE
13	MATHEWS SABU
14	MIDHUN S PARATHARAYIL
15	NANDHUKRISHNA B
16	TINU GEORGE
17	VARSHA ANTONY
18	RONEY G JOHNSON
19	TINOY ANTONY P B




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S8 EEE A BATCH
ELECTIVE : CE 488 DISASTER MANAGEMENT

SL NO	NAME OF STUDENT
1	AMMU JOVAN
2	CHRISTY BABY
3	FEBIN BIJU
4	RUBEENA A A
5	SOORAJ S SURESH
6	NOYAL V V




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S8 EEE B BATCH
ELECTIVE : CE 488 DISASTER MANAGEMENT

SL NO	NAME OF THE STUDENT
1	AKASH ASHOKAN
2	ALWIN ELDHO
3	AMRITHA SATHEESH KUMAR
4	ARCHANA P RAJU
5	DILFINA SAJI
6	MATHEWS SABU
7	VARSHA ANTONY




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S8 EEE A BATCH CE469 ENVIRONMENTALIMPACT ASSESMENT

SL NO	NAME OF STUDENT
1	ABIN ANIL
2	DIPU JOSEPH VIJOY
3	JESWIN K ANTO
4	SREENATH S
5	TANIL S KEERIKKATTU
6	SANJAY BABU V L




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S8 EEE B BATCH CE469 ENVIRONMENTAL IMPACT ASSESMENT

SL NO	NAME OF STUDENT
1	ELDHOSSE KURIAKOSE
2	JISHNU V
3	JOSEPH VINCENT
4	NAMITHA SHIBU
5	RAISA RAZAK
6	TINOY ANTONY P B




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S8 EEE A BATCH

ELECTIVE : FS 482 RESPONSIBLE ENGINEERING

SL NO	NAME OF STUDENT
1	ABHIJITH S
2	AGGY GEORGE
3	AJAY M JOY
4	AKHIL BIJU
5	AKSHAY SIMON
6	ANAKHA RAJ
7	ANANDHU SELIVAN
8	ANUSREE R
9	ATHULYA PETER
10	CIRIL KURIAN RISON
11	JITHU THANKACHAN
12	KRISHNANAND SAJI
13	MIDHUN SAJU
14	THOMAS IKE MATTHEW
15	V T MANOJ




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S8 EEE B BATCH

ELECTIVE : FS 482 RESPONSIBLE ENGINEERING

SL NO	NAME OF STUDENT
1	ALBERT AUGUSTINE
2	CLINTO JOE PUNNOOSE
3	EBIN BENNY
4	ELDHO VARGHESE
5	KIRAN BABU
6	MIDHUN S PARATHARAYIL
7	NANDHUKRISHNA B
8	NIKHIL JOSEPH
9	PRANAV SATHYAN
10	VINOD VENUGOPAL
11	RONEY G JOHNSON




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**S8 EEE A BATCH
ELECTIVE MT-482 INDUSTRIAL SAFETY**

SL NO	NAME OF STUDENT
1	ALEN MARTIN
2	ARUN JANARDHANAN NAIR
3	DON DOMINIC
4	K S NANDU KRISHNA
5	MOBIN KOSHY
6	SEBASTIAN SANOJ P
7	S SANKARANARAYANAN




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S8 EEE B BATCH ELECTIVE MT-482 INDUSTRIAL SAFETY

SL NO	NAME OF STUDENT
1	ABIL JOSE
2	APARNA R NAIR
3	ARUN SHALU
4	BINSON SUNNY
5	JAISON KURIAKOSE
6	JISHNU J
7	P AKSHAYKUMAR
8	TINU GEORGE



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Curriculum for

B.Tech

Electronics and Communication Engineering

Degree

Semesters III to VIII

2016

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APRIL 2016

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BRANCH: *Electronics & Communication Engineering*

SEMESTER - 3

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA201	Linear Algebra & Complex Analysis	3-1-0	4	A
EC201	Network Theory	3-1-0	4	B
EC203	Solid State Devices	3-1-0	4	C
EC205	Electronic Circuits	3-1-0	4	D
EC207	Logic Circuit Design	3-0-0	3	E
HS200/ HS210	Business Economics/Life Skills	3-0-0/ 2-0-2	3	F
EC231	Electronic Devices & Circuits Lab	0-0-3	1	S
EC223	Electronic Design Automation Lab	0-0-3	1	T

Total Credits = 24 Hours: 28/29

Cumulative Credits= 71

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA204	Probability, Random Processes and Numerical Methods	3-1-0	4	A
EC202	Signals & Systems	3-1-0	4	B
EC204	Analog Integrated Circuits	4-0-0	4	C
EC206	Computer Organization	3-0-0	3	D
EC208	Analog Communication Engineering	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
EC232	Analog Integrated Circuits Lab	0-0-3	1	S
EC230	Logic Circuit Design Lab	0-0-3	1	T

Total Credits = 23 Hours 27/28

Cumulative Credits= 94



BRANCH: *Electronics & Communication Engineering*

SEMESTER - 5

Course Code	Course Name	L-T-P	Credits	Exam Slot
EC301	Digital Signal Processing	3-1-0	4	A
EC303	Applied Electromagnetic Theory	3-0-0	3	B
EC305	Microprocessors & Microcontrollers	3-0-0	3	C
EC307	Power Electronics & Instrumentation	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 1	3-0-0	3	F
EC341	Design Project	0-1-2	2	S
EC333	Digital Signal Processing Lab	0-0-3	1	T
EC335	Power Electronics & Instrumentation Lab	0-0-3	1	U

Total Credits = 23

Hours: 28

Cumulative Credits= 117

Elective1:-

1. EC361 Digital System Design
2. EC363 Optimization Techniques
3. EC365 Biomedical Engineering
4. EC360 Soft Computing



BRANCH: Electronics & Communication Engineering

SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
EC302	Digital Communication	4-0-0	4	A
EC304	VLSI	3-0-0	3	B
EC306	Antenna & Wave Propagation	3-0-0	3	C
EC308	Embedded Systems	3-0-0	3	D
EC312	Object Oriented Programming	3-0-0	3	E
	Elective 2	3-0-0	3	F
EC332	Communication Engg Lab (Analog & Digital)	0-0-3	1	S
EC334	Microcontroller Lab	0-0-3	1	T
EC352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23 Hours: 27
Cumulative Credits= 140

Elective 2:-

1. EC362 Modeling & Simulation of Communication System
2. EC364 Computer Vision
3. EC366 Real Time Operating System
4. EC368 Robotics
5. EC370 Digital Image Processing



BRANCH: *Electronics & Communication Engineering*

SEMESTER - 7

Course Code	Course Name	L-T-P	Credits	Exam Slot
EC401	Information Theory & Coding	4-0-0	4	A
EC403	Microwave & Radar Engineering	3-0-0	3	B
EC405	Optical Communication	3-0-0	3	C
EC407	Computer Communication	3-0-0	3	D
EC409	Control Systems	3-0-0	3	E
	Elective 3	3-0-0	3	F
EC451	Seminar & Project Preliminary	0-1-4	2	S
EC431	Communication Systems Lab (Optical & Microwave)	0-0-3	1	T

Total Credits = 22 Hours: 27

Cumulative Credits= 162

Elective 3:-

1. EC461 Microwave Devices and Circuits
2. EC463 Speech and Audio Processing
3. EC465 MEMS
4. EC467 Pattern Recognition
5. EC469 Opto Electronic Devices



BRANCH: Electronics & Communication Engineering

SEMESTER - 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
EC402	Nano electronics	3-0-0	3	A
EC404	Advanced Communication Systems	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
EC492	Project		6	

Total Credits = 18 Hours: 30
Cumulative Credits= 180

Elective 4:-

1. EC462 Mixed Signal Circuit Design
2. EC464 Low Power VLSI Design
3. EC466 Cyber Security
4. EC468 Secure Communication
5. EC472 Integrated Optics & Photonic Systems



ELECTIVE 5 (NON DEPARTMENTAL ELECTIVE COURSES)

1. AO482 AUTOMOTIVE AERODYNAMICS
2. AE482 INDUSTRIAL INSTRUMENTATION
3. AE484 INSTRUMENTATION SYSTEM DESIGN
4. AU484 MICROPROCESSOR AND EMBEDDED SYSTEMS
5. AU486 NOISE, VIBRATION AND HARSHNESS
6. BM482 BIOMEDICAL INSTRUMENTATION
7. BM484 MEDICAL IMAGING & IMAGE PROCESSING TECHNIQUES
8. BT482 DESIGN OF BIOLOGICAL WASTEWATER SYSTEMS
9. BT484 SUSTAINABLE ENERGY PROCESSES
10. CH482 PROCESS UTILITIES AND PIPE LINE DESIGN
11. CH484 FUEL CELL TECHNOLOGY
- 12. CE482 ENVIRONMENTAL IMPACT ASSESSMENT**
13. CE484 APPLIED EARTH SYSTEMS
14. CE486 GEO INFORMATICS FOR INFRASTRUCTURE MANAGEMENT
15. CE488 DISASTER MANAGEMENT
- 16. CE492 ENVIRONMENT HEALTH AND SAFETY**
17. CS482 DATA STRUCTURES
18. CS484 COMPUTER GRAPHICS
19. CS486 OBJECT ORIENTED PROGRAMMING
20. CS488 C # AND .NET PROGRAMMING
21. EE482 ENERGY MANAGEMENT AND AUDITING
22. EE484 CONTROL SYSTEMS
23. EE486 INDUSTRIAL AUTOMATION
24. EE488 INSTRUMENTATION SYSTEMS



- | | |
|------------------|---|
| 25. EE492 | SOFT COMPUTING |
| 26. EC482 | BIOMEDICAL ENGINEERING |
| 27. FT482 | FOOD PROCESS ENGINEERING |
| 28. FT484 | FOOD STORAGE ENGINEERING |
| 29. FT486 | FOOD ADDITIVES AND FLAVOURING |
| 30. IE482 | FINANCIAL MANAGEMENT |
| 31. IE484 | INTRODUCTION TO BUSINESS ANALYTICS |
| 32. IE486 | DESIGN AND ANALYSIS OF EXPERIMENTS |
| 33. IE488 | TOTAL QUALITY MANAGEMENT |
| 34. IC482 | BIOMEDICAL SIGNAL PROCESSING |
| 35. IT482 | INFORMATION SYSTEM MANAGEMENT |
| 36. MA482 | APPLIED LINEAR ALGEBRA |
| 37. MA484 | OPERATIONS RESEARCH |
| 38. MA486 | ADVANCED NUMERICAL COMPUTATIONS |
| 39. MA488 | CRYPTOGRAPHY (Not for IT branch) |
| 40. ME469 | FINITE ELEMENT ANALYSIS |
| 41. ME482 | ENERGY CONSERVATION AND MANAGEMENT |
| 42. ME471 | OPTIMIZATION TECHNIQUES |
| 43. MP482 | PRODUCT DEVELOPMENT AND DESIGN |
| 44. MP469 | INDUSTRIAL PSYCHOLOGY & ORGANIZATIONAL BEHAVIOUR |
| 45. MP484 | PROJECT MANAGEMENT |
| 46. MT482 | INDUSTRIAL SAFETY |
| 47. MR482 | MECHATRONICS |
| 48. FS482 | RESPONSIBLE ENGINEERING |
| 49. SB482 | DREDGERS AND HARBOUR CRAFTS |
| 50. HS482 | PROFESSIONAL ETHICS |



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ACADEMIC YEAR 2019-2020

B. TECH ELECTRONICS & COMMUNICATION ENGINEERING

Programme code	Programme name	Year of introduction	Semester	Electives offered by the department
B.TECH ECE	ECE	2016 (KTU)	S5	DIGITAL SYSTEM DESIGN
B.TECH ECE	ECE	2016 (KTU)	S5	BIOMEDICAL ENGINEERING
B.TECH ECE	ECE	2016 (KTU)	S6	REAL TIME OPERATING SYSTEMS
B.TECH ECE	ECE	2016 (KTU)	S6	DIGITAL IMAGE PROCESSING
B.TECH ECE	ECE	2016 (KTU)	S7	MICROWAVE DEVICES AND CIRCUITS
B.TECH ECE	ECE	2016 (KTU)	S7	MEMS
B.TECH ECE	ECE	2016 (KTU)	S8	SECURE COMMUNICATION
B.TECH ECE	ECE	2016 (KTU)	S8	TOTAL QUALITY MANAGEMENT
B.TECH ECE	ECE	2016 (KTU)	S8	ENVIRONMENTAL IMPACT ASSESSMENT
B.TECH ECE	ECE	2016 (KTU)	S8	INDUSTRIAL PSYCHOLOGY & ORGANISATIONAL BEHAVIOUR
B.TECH ECE	ECE	2016 (KTU)	S8	ENVIRONMENTAL HEALTH & SAFETY



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CLASS :	S6 ECE A&B
ELECTIVE	EC361 DIGITAL SYSTEM DESIGN
SL. NO	NAME OF THE STUDENTS
1	AANJANA M BABY
2	ALEENA SAJI KURIAKOSE
3	ALFRED ROY
4	ALWIN C VARGHESE
5	ANN NIDHIYA P T
6	ARADHANA PRAKASH
7	ARSHIYA NOUSHAD
8	AUGUSTINA K MARTIN
9	BRISTO SAVIO
10	DONA SAJI K
11	HELNA ELDHO
12	LIBIYA PATHROSE
13	LIYA JOJO
14	MARIYA GEORGE
15	MERILA ANN JOSEPH
16	MINNU MARY JOLLY
17	NIVYA THOMAS
18	SHILPA VARGHESE
19	SNEHA GEORGE
20	YAMUNA M.S
21	ALPHONSA RENNY
22	MARIA CELAS THOMAS
23	MARIA THERESA
24	RADHIKA C.A
25	SUSAN RANJU



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CLASS :	S5 ECE A&B
ELECTIVE	EC365 BIOMEDICAL ENGINEERING
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2	ALBIN JOHN
3	AMAL SURESH
4	HARIKRISHNAN K S
5	JEES JOY
6	JERIN GEORGE
7	LIYA TOMY
8	NELSON JOSEPH
9	PADMAKUMAR J
10	ROSE PIUS
11	SALVIYA MATHEW
12	SARASWATHY S NAIR
13	SOLU PAULOSE
14	SUSAN SHAJI
15	VYSHAKH ANIL
16	AATHIRA A MENON
17	ABIN ELDHO
18	AIWARYA S NAIR
19	AKHIL SAJU
20	ALAN JOSE
21	ANGELA SUNNY
22	ANJITH P N
23	ANU SHALET PHILIP
24	ARYA C.S
25	ARYADEVI K V
26	ASWATHY SHAJU
27	BASIL KOCHUPURACKAL
28	BONY ELDHOSE
29	DEVAVRATHAN S



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32	GOURINANDANA N
33	GREESHMA GEORGE
34	HARISANKAR S
35	JESS MATHEW
36	LAKSHMIPRIYA B
37	MARIYA POLSON
38	MINALEE SIBI
39	NEENU SHOBY
40	RAHUL SATHYAN
41	SRUTHY VARGHESE
42	VYSAKH SURESH
43	GOPIK SURESH
44	STEVE SHAJU
45	JITHIN JOYCHAN




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CLASS :	S6 ECE A&B
ELECTIVE	EC366 REAL TIME OPERATING SYSTEMS
SL. NO	NAME OF THE STUDENTS
1	AANJANA M BABY
2	ABIN SUNNY
3	ALFRED ROY
4	AMAL SURESH
5	ARADHANA PRAKASH
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CLASS :	S6 ECE A&B
ELECTIVE	EC370 DIGITAL IMAGE PROCESSING
SI NO	NAME OF THE STUDENTS
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3	ALWIN C VARGHESE
4	ANN NIDHIYA P T
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CLASS :	S7 ECE A&B
ELECTIVE	EC461 MICROWAVE DEVICES AND CIRCUITS
SI NO	NAME OF THE STUDENTS
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2	ANJANA S
3	ANUSREE C S
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9	HARSHA JOSE
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CLASS :	S7 ECE A&B
ELECTIVE	EC465 MEMS
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3	AKHIL ROY
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5	ALEN A BABY
6	ANANDHU MURALY
7	ANANTHAKRISHNAN M S
8	ANJU JOLY
9	ANJU SAJEEV
10	BASIL MARTIN TOM
11	BHUVANENDRAN B
12	BINIL DEV
13	BINITTA THOMAS
14	CHRISTO JOJO
15	DEVAPRASAD V J
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18	JEWEL JIMMY
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21	MATHEWS BINOY
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23	MERLIN JOHN
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26	PARVATHI SURESH
27	PAUL KURIAKOSE



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35	ADARSH TOMY
36	ADORN P SEBASTIAN
37	ANIT E J
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49	GEETHU SONY
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52	JINU JAIMON
53	JOMCY JOSE
54	JOSEPH V APPILLIL
55	MALAVIKA BAIJU
56	MANU MATHEW VALLAVANTHARA
57	MINNU C T



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63	SHARON SABU
64	SONU BABU JOSEPH
65	SREEHARI BAJI
66	K B SREEHARI
67	TOLEMY AUGUSTIAN
68	VANI VAVACHAN
69	VISMAYA LIZA PHILIP




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ELECTIVE	EC468 SECURE COMMUNICATION
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8	ANANTHAKRISHNAN M S
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62	ANU ROY



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74	GLOYA XAVIER
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76	JEFFIN JOSE
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80	JOMCY JOSE
81	JOSEPH V APPILLIL
82	K B SREEHARI
83	MALAVIKA BAIJU
84	MANU MATHEW VALLAVANTHARA
85	MERLIN JOHNSON
86	MINNU C T
87	MOHID ANTONY JIMMY
88	RITZEN RAPHEL
89	ROSHAN ROY
90	SEYCHELL DAVID
91	SHARON ALICEA D
92	SHARON SABU
93	SONU BABU JOSEPH
94	SREEHARI BAJI



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95	TOLEMY AUGUSTIAN
96	VANI VAVACHAN
97	VISHNU M
98	VISMAYA LIZA PHILIP
99	AMAL CHANDRAN (CR)




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CLASS :	S8 ECE A&B
ELECTIVE	IE 488 TOTAL QUALITY MANAGEMENT
SI NO	NAME OF THE STUDENTS
1	ANJANA S
2	ANJU JOLY
3	ANUSHREE CS
4	CHRISTO JOJO
5	ELAINE LIZ JOSEPH
6	MEGHA SUKUMAR
7	MERIN THOMAS
8	NEETHA VINCENT
9	RUBLE SARA BABY
10	SRUTHY JAYACHANDRAN
11	ADORN P SEBASTIAN
12	ALAN SHAJU
13	ALEENA JOSH Y
14	AMAL JOSEPH
15	ANU GEORGE
16	ARYA K S
17	JEPHIN BABY




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CLASS :	S8 ECE A&B
ELECTIVE	CE482 ENVIRONMENTAL IMPACT ASSESSMENT
SI NO	NAME OF THE STUDENTS
1	AKHIL K UNNIKRISHNAN
2	ALEN A BABY
3	ANANTHAKRISHNAN M S
4	BINITTA THOMAS
5	CHANDINI BINU
6	CHITHIRA MAHESH
7	DHANYA JOBY
8	HARSHA JOSE
9	JEWEL JIMMY
10	JOANN P BERNARD
11	KARTHIKA GOPI
12	LEENU S CHENGALATHU
13	MERLIN JOHN
14	NITHIN BOSE THARAKAN
15	PAUL KURIAKOSE
16	RADHIKA SABU
17	SARATHCHANDRAN S
18	ANIT E J
19	ANU MARIA SUNNY
20	ANU ROY
21	BINCY VARKEY
22	DANY JOJI
23	DELNA T DAVIS
24	GEETHU SONY
25	GLOYA XAVIER
26	GREESHMA RAJ
27	JOMCY JOSE



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28	MALAVIKA BAIJU
29	MERLIN JOHNSON
30	MINNU C T
31	SEYCHELL DAVID
32	SHARON ALICEA D
33	SHARON SABU
34	SONU BABU JOSEPH
35	VANI VAVACHAN
36	VISMAYA LIZA PHILIP




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CLASS :	S8 ECE-A&B
ELECTIVE	MP 469 INDUSTRIAL PSYCHOLOGY & ORGANISATIONAL BEHAVIOUR
SI NO	NAME OF THE STUDENTS
1	ALEENA SANTO
2	ANANDHU MURALY
3	BINIL DEV
4	DEVAPRASAD
5	FIDHA VASIL
6	LINER REJI
7	MATHEWS BINOY
8	MIDHUN MURALIKRISHNA
9	PRISTEEN JOSE
10	TONY GEORGE
11	ADARSH TOMY
12	BENJAMIN BABY JACOB
13	DON THOMAS
14	JEFFIN JOSE
15	JINCE JOLLY
16	MOHID ANTONY JIMMY
17	TOLEMY AUGUSTIAN




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CLASS :	S8 ECE A&B
ELECTIVE	CE494 ENVIRONMENTAL HEALTH & SAFETY
SI NO	NAME OF THE STUDENTS
1	AISWARYA M NAIR
2	AKHIL K UNNIKRIISHNAN
3	ALEESHA SARA MATHEWS
4	ANJU SAJEEV
5	BASIL MARTIN TOM
6	BHUVANENDRAN B
7	CERIL JOSEPH
8	JEBINS JAICE
9	LAKSHMIPRIYA
10	PARVATHI SURESH
11	RAHANA SULTHANA M SIDHIK
12	RAINA ROY
13	SHEETAL DAVID
14	SHILPA LALU
15	SNEHA SUNNY
16	ANOOP A BABY
17	ARUN R NATH
18	BASIL THANKACHAN
19	EBIN ELDHO
20	EIVEIN JOSE
21	JINU JAIMON
22	JOSEPH V APPILLIL
23	MANU MATHEW VALLAVANTHARA
24	RITZEN RAPHEL
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26	SREEHARI BAJI
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Curriculum for B.Tech Mechanical Engineering Degree Semesters III to VIII 2016

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY B.TECH CURRICULUM FOR THIRD AND HIGHER SEMESTERS

APRIL 2016

Branch	Page
1. Aeronautical Engineering	02
2. Applied Electronics and Instrumentation Engineering	07
3. Automobile Engineering	12
4. Biomedical Engineering	17
5. Biotechnology	22
6. Chemical Engineering	27
7. Civil Engineering	32
8. Computer Science and Engineering	37
9. Electrical and Electronics Engineering	42
10. Electronics and Biomedical Engineering	47
11. Electronics and Communication Engineering	52
12. Food Technology	57
13. Industrial Engineering	62
14. Information Technology	67
15. Instrumentation and Control Engineering	72
16. Mechanical Engineering	77
17. Mechanical (Automobile) Engineering	82
18. Mechanical (Production Engineering)	87
19. Mechatronics Engineering	92
20. Metallurgy	97
21. Naval Architecture and Ship Building	102
22. Production Engineering	107



SEMESTER - 3

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA201	Linear Algebra & Complex Analysis	3-1-0	4	A
ME201	Mechanics of Solids	3-1-0	4	B
ME203	Mechanics of Fluids	3-1-0	4	C
ME205	Thermodynamics	3-1-0	4	D
ME210	Metallurgy and Materials Engineering	3-0-0	3	E
HS200/ HS210	Business Economics/Life Skills	3-0-0/ 2-0-2	3	F
ME231	Computer Aided Machine Drawing Lab	0-0-3	1	S
CE230	Material Testing Lab	0-0-3	1	T

Total Credits = 24 Hours: 28/29

Cumulative Credits= 71

SEMESTER - 4

Course Code	Course Name	L-T-P	Credits	Exam Slot
MA202	Probability Distributions, Transforms and Numerical Methods	3-1-0	4	A
ME202	Advanced Mechanics of Solids	3-1-0	4	B
ME204	Thermal Engineering	3-1-0	4	C
ME206	Fluid Machinery	2-1-0	3	D
ME220	Manufacturing Technology	3-0-0	3	E
HS210/ HS200	Life Skills/Business Economics	2-0-2/ 3-0-0	3	F
ME232	Thermal Engineering Lab	0-0-3	1	S
ME230	Fluid Mechanics & Machines Lab	0-0-3	1	T

Total Credits = 23 Hours 28/27

Cumulative Credits= 94



SEMESTER - 5

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME301	Mechanics of Machinery	3-1-0	4	A
ME303	Machine Tools & Digital Manufacturing	3-0-0	3	B
ME305	Computer Programming & Numerical Methods	2-0-1	3	C
EE311	Electrical Drives & Control for Automation	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 1	3-0-0	3	F
ME341	Design Project	0-1-2	2	S
EE335	Electrical and Electronics Lab	0-0-3	1	T
ME331	Manufacturing Technology Lab I	0-0-3	1	U

Total Credits = 23 Hours: 28

Cumulative Credits= 117

- Elective 1:-
1. ME361 Advanced Fluid Mechanics
 2. ME363 Composite Materials and Mechanics
 3. ME365 Advanced Metal Casting
 4. ME367 Non-Destructive Testing
 5. ME369 Tribology
 6. ME371 Nuclear Engineering
 7. ME373 Human Relations Management



SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME302	Heat & Mass Transfer	3-1-0	4	A
ME304	Dynamics of Machinery	2-1-0	3	B
ME306	Advanced Manufacturing Technology	3-0-0	3	C
ME308	Computer Aided Design and Analysis	3-0-0	3	D
ME312	Metrology and Instrumentation	3-0-0	3	E
	Elective 2	3-0-0	3	F
ME332	Computer Aided Design & Analysis Lab	0-0-3	1	S
ME334	Manufacturing Technology Lab II	0-0-3	1	T
ME352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23 Hours: 27

Cumulative Credits= 140

Elective 2:-

1. ME362 Control System Engineering
2. ME364 Turbo Machinery
3. ME366 Advanced Metal Joining Technology
4. ME368 Marketing Management
5. ME372 Operations Research
6. ME374 Theory of Vibration
7. ME376 Maintenance Engineering



SEMESTER – 7

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME401	Design of Machine Elements I	3-1-0	4	A
ME403	Advanced Energy Engineering	3-0-0	3	B
ME405	Refrigeration and Air Conditioning	2-1-0	3	C
ME407	Mechatronics	3-0-0	3	D
ME409	Compressible Fluid Flow	2-1-0	3	E
	Elective 3	3-0-0	3	F
ME451	Seminar & Project Preliminary	0-1-4	2	S
ME431	Mechanical Engineering Lab	0-0-3	1	T

Total Credits = 22 Hours: 27

Cumulative Credits= 162

Elective 3:-

1. ME461 Aerospace Engineering
2. ME463 Automobile Engineering
3. ME465 Industrial Hydraulics
4. IE306 Supply Chain and Logistics Management
5. ME467 Cryogenic Engineering
6. ME469 Finite Element Analysis
7. ME471 Optimization Techniques



SEMESTER – 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
ME402	Design of Machine Elements II	3-0-0	3	A
ME404	Industrial Engineering	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
ME492	Project		6	

Total Credits = 18 Hours: 30

Cumulative Credits= 180

Elective 4:-

1. ME462 Propulsion Engineering
2. ME464 Robotics and Automation
3. ME466 Computational Fluid Dynamics
4. ME468 Nanotechnology
5. ME472 Failure Analysis and Design
6. ME474 Micro and Nano Manufacturing
7. ME476 Material Handling & Facilities Planning



ELECTIVE 5 (NON DEPARTMENTAL ELECTIVE COURSES)

1. AO482 AUTOMOTIVE AERODYNAMICS
2. AE482 INDUSTRIAL INSTRUMENTATION
3. AE484 INSTRUMENTATION SYSTEM DESIGN
4. AU484 MICROPROCESSOR AND EMBEDDED SYSTEMS
5. AU486 NOISE, VIBRATION AND HARSHNESS
6. BM482 BIOMEDICAL INSTRUMENTATION
7. BM484 MEDICAL IMAGING & IMAGE PROCESSING TECHNIQUES
8. BT482 DESIGN OF BIOLOGICAL WASTEWATER SYSTEMS
9. BT484 SUSTAINABLE ENERGY PROCESSES
10. CH482 PROCESS UTILITIES AND PIPE LINE DESIGN
11. CH484 FUEL CELL TECHNOLOGY
- 12. CE482 ENVIRONMENTAL IMPACT ASSESSMENT**
13. CE484 APPLIED EARTH SYSTEMS
14. CE486 GEO INFORMATICS FOR INFRASTRUCTURE MANAGEMENT
- 15. CE488 DISASTER MANAGEMENT**
- 16. CE492 ENVIRONMENT HEALTH AND SAFETY**
17. CS482 DATA STRUCTURES
18. CS484 COMPUTER GRAPHICS
19. CS486 OBJECT ORIENTED PROGRAMMING
20. CS488 C # AND .NET PROGRAMMING
21. EE482 ENERGY MANAGEMENT AND AUDITING
22. EE484 CONTROL SYSTEMS



- 23. EE486 INDUSTRIAL AUTOMATION
- 24. EE488 INSTRUMENTATION SYSTEMS
- 25. EE492 SOFT COMPUTING
- 26. EC482 BIOMEDICAL ENGINEERING
- 27. FT482 FOOD PROCESS ENGINEERING
- 28. FT484 FOOD STORAGE ENGINEERING
- 29. FT486 FOOD ADDITIVES AND FLAVOURING
- 30. IE482 FINANCIAL MANAGEMENT
- 31. IE484 INTRODUCTION TO BUSINESS ANALYTICS
- 32. IE486 DESIGN AND ANALYSIS OF EXPERIMENTS
- 33. IE488 TOTAL QUALITY MANAGEMENT
- 34. IC482 BIOMEDICAL SIGNAL PROCESSING
- 35. IT482 INFORMATION SYSTEM MANAGEMENT
- 36. MA482 APPLIED LINEAR ALGEBRA
- 37. MA484 OPERATIONS RESEARCH
- 38. MA486 ADVANCED NUMERICAL COMPUTATIONS
- 39. MA488 CRYPTOGRAPHY (Not for IT branch)
- 40. ME469 FINITE ELEMENT ANALYSIS
- 41. ME482 ENERGY CONSERVATION AND MANAGEMENT
- 42. ME471 OPTIMIZATION TECHNIQUES
- 43. MP482 PRODUCT DEVELOPMENT AND DESIGN
- 44. MP469 INDUSTRIAL PSYCHOLOGY & ORGANIZATIONAL BEHAVIOUR
- 45. MP484 PROJECT MANAGEMENT
- 46. MT482 INDUSTRIAL SAFETY
- 47. MR482 MECHATRONICS
- 48. FS482 RESPONSIBLE ENGINEERING**
- 49. SB482 DREDGERS AND HARBOUR CRAFTS
- 50. HS482 PROFESSIONAL ETHICS



ACADEMIC YEAR 2019-2020

B. TECH MECHANICAL ENGINEERING

	Programme code	Programme name	Year of introduction	Semester	Electives offered by the department
1	B. TECH ME	ME	2016 (KTU)	S5	NUCLEAR ENGINEERING
2	B. TECH ME	ME	2016 (KTU)	S5	NON DESTRUCTIVE TESTING
3	B. TECH ME	ME	2016 (KTU)	S6	ADVANCED METAL JOINING TECHNOLOGY
4	B. TECH ME	ME	2016 (KTU)	S6	MARKETING MANAGEMENT
5	B. TECH ME	ME	2016 (KTU)	S7	CRYOGENIC ENGINEERING
6	B. TECH ME	ME	2016 (KTU)	S7	SUPPLY CHAIN AND LOGISTICS MANAGEMENT
7	B. TECH ME	ME	2016 (KTU)	S8	PROPULSION ENGINEERING
8	B. TECH ME	ME	2016 (KTU)	S8	MATERIAL HANDLING AND FACILITIES PLANNING
9	B. TECH ME	ME	2016 (KTU)	S8	DISASTER MANAGEMENT
10	B. TECH ME	ME	2016 (KTU)	S8	ENVIRONMENTAL HEALTH AND SAFETY
11	B. TECH ME	ME	2016 (KTU)	S8	ENVIRONMENTAL IMPACT ASSESMENT
12	B. TECH ME	ME	2016 (KTU)	S8	RESPOSIBLE ENGINEERING



CLASS :	S5 ME
ELECTIVE	ME371 NUCLEAR ENGINEERING
SL. NO	NAME OF THE STUDENTS
1	ABIN JOSEPH
2	AKHIL SEBASTIAN
3	ALEN BENNY
4	ALEX THOMAS
5	AMAL PRATHEESH
6	ANTONY JOHNNY
7	FRANCIS LAL
8	GEORGE M SABU
9	GLEN ANTONY K L
10	JAMESKUTTY MICHAEL
11	JAYAKRISHNAN M
12	JEBIN JOHNNY
13	JEEVAN THOMAS
14	JERIN ELDHOSE
15	JERIN JOSH Y
16	JOEL GEORGE KALAMPUKATTU
17	JOGI JOSE
18	KURIAN BENNY
19	MELVIN JOE AUGUSTINE
20	NITHYAN SAHAJAN
21	SHIBIN P
22	SHONE NIXON
23	SRAVAN SUNIL C M
24	UMESH GANESAN
25	VIJAY N RAVI
26	ELDHO JOSE
27	JOSHUA ISSAC PAUL
28	ABHISHEK A S



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30	ABHISHEK N B
31	AJAY ANIL
32	AJAY PIOUS
33	ALAN BINOY
34	ALVIN ANTONY
35	ALVIN SHAJI
36	ANANDHU V R
37	ANTONY MT
38	ARJUN BHARATH SHAH
39	ARJUN P T
40	ARUN THOMAS
41	DARPAN JOHNSON
42	EMIL JAISON
43	GAUTHAM ANI
44	GOKUL S KUMAR
45	GOUTHAM S NAIR
46	JAIS PATHROSE
47	JEEVAN JOHNS
48	JERIMIAH RAJU
49	JINTO JOSEPH
50	JOVIN JOSE
51	KURIAN PETER
52	NEVIN SUNIL
53	SAJIN GEORGE
54	KIRAN KRISHNA R
55	MATHEWS JOSE
56	MOHAMED BILAL



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CLASS :	S5 ME
ELECTIVE	ME367 NON DESTRUCTIVE TESTING
SL. NO	NAME OF THE STUDENTS
1	ABHINAV V SALIM
2	ABIN ANTONY
3	AFNAS V A
4	AJMAL ROSHAN P M
5	AKHILESH BALACHANDRAN
6	AKHIL SHIJO
7	ALEN ULAHANNAN
8	AMAL ANTONY
9	AMAL BABU B
10	ARJUN SURESH
11	ARJUN T P
12	ASHIQ SALU
13	ASWIN T S
14	BASIL C VARGHESE
15	DELJO M BABY
16	DENILSON JAMES
17	EDWIN XAVIER
18	GEORGE ELIAS K
19	GITHIN BIJU
20	GOPU K S
21	MATHEW NEVIN
22	MELBIN SIBI
23	NIKHIL DEVASIA
24	RAHUL S THACHIL
25	SEBASTIAN ANTONY
26	SREERAG SHAJI
27	VISHNU VINOD
28	ARUN SABU



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30	ABY JOSHY
31	AKASH AJI
32	AKASH SATHEESAN
33	AKSHAY AJITH
34	ALEX T SHAJU
35	ALWIN GEORGE
36	ALWIN THOMAS
37	ASHISH T GEORGE
38	BASIL SUNNY
39	DIVINE JOSEPH SEBASTIAN
40	DON JACOB JOE
41	DON THOMAS
42	ELDHO THOMAS
43	HARIKRISHNAN V
44	HRITIK BINOY
45	JOSE THOMSON
46	JUSTIN SIBY
47	PAUL T SUNNY
48	ROHAN N THEKKEKUNNEL
49	RONY PAUL KANDATHIL
50	SHIAN JIJI
51	SONU JOHN
52	VAISAKH U.S
53	VISHNU PRASAD




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CLASS :	S6 ME
ELECTIVE	ME366 ADVANCED METAL JOINING TECHNOLOGY
SL. NO	NAME OF THE STUDENTS
1	AKHILESH BALACHANDRAN
2	ALEX THOMAS
3	ANTONY JOHNY
4	ARJUN SURESH
5	ARJUN T P
6	ASWIN T S
7	BASIL C VARGHESE
8	DELJO M BABY
9	DENILSON JAMES
10	FRANCIS LAL
11	GEORGE M SABU
12	GITHIN BIJU
13	GLEN ANTONY K L
14	JAYAKRISHNAN M
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45	JOSE THOMSON
46	JOVIN JOSE
47	JUSTIN SIBY
48	PAUL T SUNNY
49	ROHAN N THEKKEKUNNEL
50	SONU JOHN
51	VAISAKH U.S
52	VISHNU PRASAD
53	VISHNU REJIKUMAR



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CLASS :	S6 ME
ELECTIVE	ME368 - MARKETING MANAGEMENT
SL. NO	NAME OF THE STUDENTS
1	ABHINAV V SALIM
2	ABIN ANTONY
3	ABIN JOSEPH
4	AFNAS V A
5	AJMAL ROSHAN P M
6	AKHIL SEBASTIAN
7	AKHIL SHIJO
8	ALEN BENNY
9	ALEN ULAHANNAN
10	AMAL ANTONY
11	AMAL BABU B
12	AMAL PRATHEESH
13	ASHIQ SALU
14	EDWIN XAVIER
15	GEORGE ELIAS K
16	GOPU K S
17	JAMESKUTTY MICHAEL
18	KURIAN BENNY
19	MATHEW NEVIN
20	NIKHIL DEVASIA
21	NITHYAN SAHAJAN
22	SHIBIN P
23	SRAVAN SUNIL C M
24	UMESH GANESAN
25	VIJAY N RAVI
26	VISHNU VINOD
27	JOSHUA ISSAC PAUL
28	ABHISHEK A S



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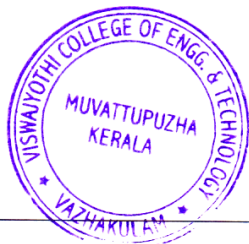
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29	ABHISHEK JAMES
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31	AKASH SATHEESAN
32	AKSHAY AJITH
33	ALAN BINOY
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35	ALEXANDER JOY
36	ALVIN ANTONY
37	ALWIN THOMAS
38	ARJUN P T
39	ASHISH T GEORGE
40	DIVINE JOSEPH SEBASTIAN
41	DON JACOB JOE
42	DON THOMAS
43	ELDHO THOMAS
44	EMIL JAISON
45	GAUTHAM ANI
46	GOUTHAM S NAIR
47	JAIS PATHROSE
48	JEEVAN JOHNS
49	JERMIAH RAJU
50	KURIAN PETER
51	NEVIN SUNIL
52	RONY PAUL KANDATHIL
53	SAJIN GEORGE
54	SHIAN JIJI
55	KIRAN KRISHNA R
56	MATHEWS JOSE (CR)
57	MOHAMMED BILAL (CR)



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VAZHAKULAM



CLASS :	S7 ME A&B
ELECTIVE	ME 467 CRYOGENICS ENGINEERING
SI NO	NAME OF THE STUDENTS
1	ABHIJITH N BENNY
2	ABIN JOSE PAUL
3	ADWAITH SAJIKUMAR
4	AKHIL SHAJI
5	AKSHAY JOSH Y
6	ALAN BIJU
7	ALBIN GEORGE
8	ALBIN JIJO
9	ALDRIN BABY
10	AMAL K S
11	AMEER E A
12	BASIL POULOSE
13	BASIL VARGHESE
14	BILAL SHAMSUDHIN
15	BRIAN PETER
16	BRIYAN TOM BENNY
17	ELDHO THOMAS
18	FIROZ S
19	JACOB THOMAS
20	JASEEM M M
21	JAYAKRISHNAN M
22	JESTIN JOSE
23	JOSIN JOSE
24	JUBIN KUR YAN PETER
25	KEVIN G AMAMTHURUTHIL
26	LEO VINCENT
27	MUHAMMED ANAS A B
28	MUHAMMED SALIH
29	NAVEEN B JOSEPH



30	REJIN JOSE
31	SANJAY M S
32	SREEJITH S NAIR
33	TOM JOSE
34	TONO JOHNSON
35	TONY GEORGE
36	CHRIS MATHEW
37	ABEX MAVIN
38	ADITYA HARIDAS
39	ALAN MATHEW MATHAI
40	ALBERT BENNY
41	ALBIN PAUL
42	ALLEN ROY
43	AMAL SAJEEV
44	ANAND P JOY
45	BASIL JOY
46	BASIL SHAJU
47	CIBIN THOMAS JOSE
48	DHEERAJ KISHAN
49	ELBIN S ABLE
50	ELDHOSE RAJU
51	HARIKRISHNAN A S
52	JEEVAN K U
53	JERRY JOSHY
54	JIPIL P CHETTOOR
55	JOSE S KUNNEL
56	JOYAL ABRAHAM
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59	MELBIN SHELLY



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64	ROHAN JOSE KURIAN
65	SAYANTH KUMAR C S
66	SEBIN SABU




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CLASS :	S7 ME A&B
ELECTIVE	IE306 SUPPLY CHAIN AND LOGISTICS MANAGEMENT
SI NO	NAME OF THE STUDENTS
1	ALLWYN ROBERT
2	AMAL MOHAN KRIPPELIKKUDY
3	ANANDHU SABU
4	ARJUN E
5	AROMAL A S
6	ARUN SABU
7	BONEY SABU
8	DARWIN DAVIS
9	ERFAN MUHAMMED C K
10	HARIS MUSTHAFA
11	HARISON BIJI
12	JEEVAN GEORDY
13	JEEVO JOHNSON
14	JINO JAJI KITHU
15	JOHN RAJU CHETHALAN
16	JOHNS VARGHESE G
17	MELBIN THANKACHAN
18	MIDHUN BABU
19	RAHUL RAJAN
20	ROHITH AUGUSTINE
21	SAGAR VINCENT
22	VIVEK R VASANTH
23	ABHIJITH RAJU
24	ABHISHEK VARKEY
25	ADINAN IRFAN
26	ADITH SURESH
27	AJAY SAJEEV



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33	ANTU ROY
34	ARJUN M A
35	BASIL BENNY
36	B HARIKRISHNA
37	BRAD LEE BEDE
38	ELDHOSSE ELSON
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44	KISHAN PAUL
45	MATHEWS BENNY
46	MATHEWS JOSEPH
47	MOHAMMED JASEEM MOIDEEN P
48	NITHIN KRISHNA
49	TONY CHACKO




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CLASS :	S7 ME A&B
ELECTIVE	ME462 PROPULSION ENGINEERING
SI NO	NAME OF THE STUDENTS
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2	AKHIL SHAJI
3	ALBIN GEORGE
4	ALDRIN BABY
5	AMAL K S
6	AMAL MOHAN KRIPPELIKKUDY
7	ARUN SABU
8	BILAL SHAMSUDHIN
9	BONEY SABU
10	BRIAN PETER
11	FIROZ S
12	JACOB THOMAS
13	JASEEM M M
14	JAYAKRISHNAN M
15	JEEVO JOHNSON
16	MIDHUN BABU
17	NAVEEN B JOSEPH
18	REJIN JOSE
19	SAGAR VINCENT
20	SANJAY M S
21	SREEJITH S NAIR
22	TOM JOSE
23	TONO JOHNSON
24	TONY GEORGE
25	CHRIS MATHEW (CR)
26	ABEX MAVIN
27	ADITYA HARIDAS
28	AKHIL SOMAN



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39	HEMANTH P K
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42	JERRY JOSH Y
43	JIPIL P CHETTOOR
44	JOSEPH BENNY KUDIYIRICAN
45	JOSE S KUNNEL
46	MELBIN SHELL Y
47	MIDHUN ELDOSE
48	NITHIN KRISHNA
49	ROHAN JOSE KURIAN
50	SEBIN SABU




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CLASS :	S8 ME A&B
ELECTIVE	ME476 MATERIALS HANDLING AND FACILITY PLANNING
SI NO	NAME OF THE STUDENTS
1	ABIN JOSE PAUL
2	ADWAITH SAJIKUMAR
3	AKSHAY JOSH Y
4	ALAN BIJU
5	ALBIN JIJO
6	ALLWYN ROBERT
7	AMEER E A
8	ANANDHU SABU
9	ARJUN E
10	AROMAL A S
11	BASIL POULOSE
12	BASIL VARGHESE
13	BRIYAN TOM BENNY
14	DARWIN DAVIS
15	ELDHO THOMAS
16	ERFAN MUHAMMED C K
17	HARIS MUSTHAFA
18	HARISON BIJI
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21	JINO JAJI KITHU
22	JOHN RAJU CHETHALAN
23	JOHNS VARGHESE G
24	JUBIN KURYAN PETER
25	KEVIN G AMAMTHURUTHIL
26	LEO VINCENT
27	MELBIN THANKACHAN
28	MUHAMMED ANAS A B
29	MUHAMMED SALIH
30	RAHUL RAJAN



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44	B HARIKRISHNA
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54	MATHEWS BENNY
55	MATHEWS JOSEPH
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57	MUHAMMED ASHIF
58	NEPHIN MATHEW
59	SAYANTH KUMAR C S
60	TONY CHACKO




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CLASS :	S8 ME A&B
ELECTIVE	CE488 DISASTER MANAGEMENT
SI NO	NAME OF THE STUDENTS
1	ADWAITH SAJIKUMAR
2	AKHIL SHAJI
3	AKSHAY JOSH Y
4	ALAN BIJU
5	ALBIN GEORGE
6	ALDRIN BABY
7	AMEER E A
8	ARJUN E
9	AROMAL A S
10	BASIL POULOSE
11	BONEY SABU
12	BRIYAN TOM BENNY
13	DARWIN DAVIS
14	HARIS MUSTHAF A
15	HARISON BIJI
16	JAYAKRISHNAN M
17	JEEVAN GEORDY
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19	JOHN RAJU CHETHALAN
20	JOHNS VARGHESE G
21	JUBIN KURYAN PETER
22	KEVIN G AMAMTHURUTHIL
23	LEO VINCENT
24	MELBIN THANKACHAN
25	RAHUL RAJAN
26	SAGAR VINCENT
27	SANJAY M S
28	SREEJITH S NAIR
29	CHRIS MATHEW



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37	ALBIN PAUL
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CLASS :	S8 ME A&B
ELECTIVE	CE 494 ENVIRONMENTAL HEALTH AND SAFETY
SI NO	NAME OF THE STUDENTS
1	ABIN JOSE PAUL
2	ALBIN JIJO
3	AMAL MOHAN KARIPPELIKKUDY
4	ANANDHU SABU
5	BILAL SHAMSUDHIN
6	ELDHO THOMAS
7	ERFAN MUHAMMED C K
8	FIROZ S
9	JACOB THOMAS
10	MUHAMMED ANAS A B
11	MUHAMMED SALIH
12	NAVEEN B JOSEPH
13	TOM JOSE
14	TONO JOHNSON
15	ADITH SURESH
16	ADITYA HARIDAS
17	ALAN MATHEW MATHAI
18	ALEN ROY
19	ARJUN M A
20	BRAD LEE BEDE
21	JAIN P CHARLES
22	JOYAL ABRAHAM
23	JUDE SAMSON
24	KISHAN PAUL
25	MATHEW BABY
26	MELBIN SHELLY
27	NEPHIN MATHEW
28	SAYANTH KUMAR C S



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CLASS :	S8 ME A&B
ELECTIVE	CE482 ENVIRONMENTAL IMPACT ASSESSMENT
SI NO	NAME OF THE STUDENTS
1	ALLWYN ROBERT
2	AMAL K S
3	BRIAN PETER
4	JASEEM M M
5	REJIN JOSE
6	TONY GEORGE
7	ALPHIN MATHEW GEORGE
8	ANAND P JOY
9	ELDHOSE RAJU
10	HARIKRISHNAN A S
11	IVEN VARGHESE THOMAS
12	ROHAN JOSE KURIAN




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CLASS :	S8 ME A&B
ELECTIVE	FS482 RESPONSIBLE ENGINEERING
SI NO	NAME OF THE STUDENTS
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2	ARUN SABU
3	BASIL VARGHESE
4	JEEVO JOHNSON
5	JINO JAIJI KITHU
6	MIDHUN BABU
7	CIBIN THOMAS JOSE
8	MIDHUN ELDOSE
9	MUHAMMED ASHIF
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CLASS :	S8 ME A&B
ELECTIVE	FS482 RESPONSIBLE ENGINEERING
SI NO	NAME OF THE STUDENTS
1	ABHIJITH N BENNY
2	ARUN SABU
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4	JEEVO JOHNSON
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10	NITHIN KRISHNA
11	TONY CHACKO

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BRANCH: *Information Technology*

SEMESTER - 5

Course Code	Course Name	L-T-P	Credits	Exam Slot
IT301	Software Architecture & Design Patterns	3-1-0	4	A
IT303	Theory of Computation	3-0-0	3	B
CS305	Microprocessors & Microcontrollers	2-1-0	3	C
IT305	Operating Systems	3-0-0	3	D
IT307	Computer Networks	3-0-0	3	E
	Elective 1	3-0-0	3	F
IT341	Design Project	0-1-2	2	S
IT331	Microcontroller Lab	0-0-3	1	T
IT333	Database Lab	0-0-3	1	U

Total Credits = 23

Hours: 28

Cumulative Credits= 117

- Elective 1:-**
1. IT361 Graph Theory
 2. IT363 UNIX Shell Programming
 3. IT365 Computer Architecture & Parallel Processing
 4. IT367 **Computer Graphics & Multimedia**
 5. MA361 Random Process and Queuing Theory



BRANCH: *Information Technology*

SEMESTER - 6

Course Code	Course Name	L-T-P	Credits	Exam Slot
IT302	Internet Technology	4-0-0	4	A
CS304	Compiler Design	2-1-0	3	B
IT304	Data Warehousing & Mining	3-0-0	3	C
IT306	Distributed Systems	3-0-0	3	D
HS300	Principles of Management	3-0-0	3	E
	Elective 2	3-0-0	3	F
IT332	Internet Technology Lab	0-0-3	1	S
IT334	Computer Networks Lab	0-0-3	1	T
IT352	Comprehensive Exam	0-1-1	2	U

Total Credits = 23

Hours: 27

Cumulative Credits= 140

Elective 2:-

1. IT362 Information Retrieval
2. IT364 **Software Project Management**
3. IT366 **Advanced DBMS**
4. IT368 Information Theory & Coding
5. MA362 Abstract Algebra and Number Theory



BRANCH: *Information Technology*

SEMESTER - 7

Course Code	Course Name	L-T-P	Credits	Exam Slot
IT401	Embedded Systems	4-0-0	4	A
IT403	Mobile Computing	3-0-0	3	B
IT405	Internet Working with TCP/IP	3-0-0	3	C
IT407	Knowledge Engineering	3-0-0	3	D
IT409	Web Application Development	3-0-0	3	E
	Elective 3	3-0-0	3	F
IT451	Seminar & Project Preliminary	0-1-4	2	S
IT431	Web Application Development Lab	0-0-3	1	T

Total Credits = 22

Hours: 27

Cumulative Credits= 162

Elective 3:-

1. IT461 Software Testing & Quality Assurance
2. IT463 Semantic Web
3. IT465 Cyber Forensics
4. CS467 Machine Learning



BRANCH: *Information Technology*

SEMESTER - 8

Course Code	Course Name	L-T-P	Credits	Exam Slot
IT402	Cryptography & Cyber Security	3-0-0	3	A
IT404	Data Analytics	3-0-0	3	B
	Elective 4	3-0-0	3	C
	Elective 5 (Non Departmental)	3-0-0	3	D
IT492	Project		6	s

Total Credits = 18

Hours: 30

Cumulative Credits= 180

Elective 4:-

1. IT462 Internet of Things
2. CS468 Cloud Computing
3. IT464 Information Storage Management
4. IT466 Adhoc & Sensor Networks
5. IT468 Service Oriented Architecture



ELECTIVE 5 (NON DEPARTMENTAL ELECTIVE COURSES)

1. AO482 AUTOMOTIVE AERODYNAMICS
2. AE482 INDUSTRIAL INSTRUMENTATION
3. AE484 INSTRUMENTATION SYSTEM DESIGN
4. AU484 MICROPROCESSOR AND EMBEDDED SYSTEMS
5. AU486 NOISE, VIBRATION AND HARSHNESS
6. BM482 BIOMEDICAL INSTRUMENTATION
7. BM484 MEDICAL IMAGING & IMAGE PROCESSING TECHNIQUES
8. BT482 DESIGN OF BIOLOGICAL WASTEWATER SYSTEMS
9. BT484 SUSTAINABLE ENERGY PROCESSES
10. CH482 PROCESS UTILITIES AND PIPE LINE DESIGN
11. CH484 FUEL CELL TECHNOLOGY
12. CE482 ENVIRONMENTAL IMPACT ASSESSMENT
13. CE484 APPLIED EARTH SYSTEMS
14. CE486 GEO INFORMATICS FOR INFRASTRUCTURE MANAGEMENT
- 15. CE488 DISASTER MANAGEMENT**
16. CE492 ENVIRONMENT HEALTH AND SAFETY
17. CS482 DATA STRUCTURES
18. CS484 COMPUTER GRAPHICS
19. CS486 OBJECT ORIENTED PROGRAMMING
20. CS488 C # AND .NET PROGRAMMING
21. EE482 ENERGY MANAGEMENT AND AUDITING
22. EE484 CONTROL SYSTEMS



- 23. EE486 INDUSTRIAL AUTOMATION
- 24. EE488 INSTRUMENTATION SYSTEMS
- 25. EE492 SOFT COMPUTING
- 26. EC482 BIOMEDICAL ENGINEERING
- 27. FT482 FOOD PROCESS ENGINEERING
- 28. FT484 FOOD STORAGE ENGINEERING
- 29. FT486 FOOD ADDITIVES AND FLAVOURING
- 30. IE482 FINANCIAL MANAGEMENT
- 31. IE484 INTRODUCTION TO BUSINESS ANALYTICS
- 32. IE486 DESIGN AND ANALYSIS OF EXPERIMENTS
- 33. IE488 TOTAL QUALITY MANAGEMENT**
- 34. IC482 BIOMEDICAL SIGNAL PROCESSING
- 35. IT482 INFORMATION SYSTEM MANAGEMENT
- 36. MA482 APPLIED LINEAR ALGEBRA
- 37. MA484 OPERATIONS RESEARCH
- 38. MA486 ADVANCED NUMERICAL COMPUTATIONS
- 39. MA488 CRYPTOGRAPHY (Not for IT branch)
- 40. ME469 FINITE ELEMENT ANALYSIS
- 41. ME482 ENERGY CONSERVATION AND MANAGEMENT
- 42. ME471 OPTIMIZATION TECHNIQUES
- 43. MP482 PRODUCT DEVELOPMENT AND DESIGN
- 44. MP469 INDUSTRIAL PSYCHOLOGY & ORGANIZATIONAL BEHAVIOUR
- 45. MP484 PROJECT MANAGEMENT
- 46. MT482 INDUSTRIAL SAFETY**
- 47. MR482 MECHATRONICS
- 48. FS482 RESPONSIBLE ENGINEERING
- 49. SB482 DREDGERS AND HARBOUR CRAFTS
- 50. HS482 PROFESSIONAL ETHICS



ACADEMIC YEAR 2019-2020

B. TECH INFORMATION TECHNOLOGY

	Programme code	Programme name	Year of introduction	Semester	Electives offered by the department
1	B.TECH IT	IT	2016 (KTU)	S5	COMPUTER GRAPHICS & MULTIMEDIA
2	B.TECH IT	IT	2016 (KTU)	S6	ADVANCED DBMS
3	B.TECH IT	IT	2016 (KTU)	S6	SOFTWARE PROJECT MANAGEMENT
4	B.TECH IT	IT	2016 (KTU)	S7	MACHINE LEARNING
5	B.TECH IT	IT	2016 (KTU)	S7	SOFTWARE TESTING AND QUALITY ASSURANCE
6	B.TECH IT	IT	2016 (KTU)	S8	CLOUD COMPUTING
7	B.TECH IT	IT	2016 (KTU)	S8	INFORMATION STORAGE MANAGEMENT
8	B.TECH IT	IT	2016 (KTU)	S8	DISASTER MANAGEMENT
9	B.TECH IT	IT	2016 (KTU)	S8	INDUSTRIAL SAFETY
10	B.TECH IT	IT	2016 (KTU)	S8	TOTAL QUALITY MANAGEMENT



CLASS	S5 IT
ELECTIVE	IT367 COMPUTER GRAPHICS & MULTIMEDIA
SL. NO	NAME
1	AARCHA PAUL
2	ABBHINAV SREEJEEV
3	ALAN J NAMBIAPARAMBIL
4	ALLEN PETER
5	AMALJITH M P S
6	AMAL SHYJO
7	ANAGHA PULINATTU
8	ANITTA SHAJI
9	ANITTA SUNNY
10	ANTONY TOMY
11	ARYA VIJAYAN
12	CHRISTO SABU
13	JEFFIN MATHEW
14	JESVIN THEKKEKARA
15	JOHNS MATHEW
16	KEVIN ABRAHAM
17	LEO JOHNSON
19	MARIA ELIZABETH FRANCIS
20	MEGHA JOSE
21	NAINA JOY
22	NANDHANA BABU
23	NIMMY SHAJU
24	RAHUL SHAJI
25	RAHUL VINOD
26	ROSE MARIA JACOB
27	ROSMY WILSON
28	SANDRA ALIYAS



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29	SRADHA SOJAN
30	THARUN JOY
31	TONY VADATHALA JOJO
32	TUBY THANKACHAN
33	SARANYA E




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CLASS	S6 IT
ELECTIVE	IT366 ADVANCED DBMS
SL. No	NAME
1	AARCHA PAUL
2	ABBHINAV SREEJEEV
3	ANAGHA PULINATTU
4	ANITTA SHAJI
5	ANITTA SUNNY
6	ANTONY TOMY
7	ARYA VIJAYAN
8	CHRISTO SABU
9	JOHNS MATHEW
10	LEO JOHNSON
11	RAHUL VINOD
12	SANDRA ALIYAS
13	THARUN JOY




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CLASS	S6 IT
ELECTIVE	IT364 SOFTWARE PROJECT MANAGEMENT
SL. No	NAME
1	ALAN J NAMBIAPARAMBIL
2	ALLEN PETER
3	AMALJITH M P S
4	AMAL SHYJO
5	JEFFIN MATHEW
6	JESVIN THEKKEKARA
7	KEVIN ABRAHAM
8	MARIA ELIZABETH FRANCIS
9	MEGHA JOSE
10	NAINA JOY
11	NANDHANA BABU
12	NIMMY SHAJU
13	RAHUL SHAJI
14	ROSE MARIA JACOB
15	ROSMY WILSON
16	SRADHA SOJAN
17	TONY VADATHALA JOJO
18	TUBY THANKACHAN
19	SARANYA E




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CLASS	S7 IT
ELECTIVE	CS467 MACHINE LEARNING
SL. No	NAME
1	ABHIRAMI A
2	AMAL K MONEY
3	ANITA JOY
4	BINITTA THOMAS
5	ELDHOSE ROY
6	GAYATHRI T A
7	HISANA THASNEEM A H
8	K S MUHAMMED LILAQUATH
9	MELVIN MATHEW
10	NEKHA BOSE
11	RONY MATHEW
12	SEBIN JOSE
13	PAUL SEBY




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CLASS	S7 IT
ELECTIVE	IT461 SOFTWARE TESTING AND QUALITY ASSURANCE
SL. NO	NAME
1	ADITHYA SIVADAS
2	AJITH N BENNY
3	ALBY SABU
4	ALDRIN REGI
5	ANANDHU KRISHNA
6	ANITTA JOSEPH
7	ANVIN THOMAS
8	APARNA DILEEP
9	AROMAL MG
10	ARPITHA P VARGHESE
11	ASWINI NAIR
12	BASIL JAMES
13	BOBY TOM MATHEW
14	DINIL THOMAS
15	ELDHO SABU
16	EMIYA TONY
17	GIBIN JOSH
18	GINET MATHECKAL
19	GOWRI J
20	JESEENA GEORGE
21	JESNA JAISON
22	JISNA ROSE MARIYA
23	JOHN T JOY
24	LINU PAUL
25	MATHEWS JOMY
26	MIDHUN SAIJU
27	MOTTY THOMAS



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28	NEENA GEORGE
29	NEETHU JOY
30	NILEENA MARTIN
31	SANGI JOSE
32	SHON SONY
33	SOLLY PAULOSE
34	SONIYA SUNNY
35	VIVEK P VARGHESE




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CLASS	S8 IT
ELECTIVE	CS468 CLOUD COMPUTING
SL. NO	NAME
1	ABHIRAMI A
2	AJITH N BENNY
3	ALBY SABU
4	AMAL K MONEY
5	ANITA JOY
6	ANITTA JOSEPH
7	ANVIN THOMAS
8	APARNA DILEEP
9	ARPITHA P VARGHESE
10	ASWINI NAIR
11	BASIL JAMES
12	BINITTA THOMAS
13	DINIL THOMAS
14	ELDHO SABU
15	ELDHOS ROY
16	EMIYA TONY
17	GAYATHRI T A
18	GINET MATHECKAL
19	HISANA THASNEEM A H
20	JESEENA GEORGE
21	JESNA JAISON
22	JISNA ROSE MARIYA
23	LINU PAUL
24	MELVIN MATHEW
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26	MOTTY THOMAS
27	NEENA GEORGE
28	NEETHU JOY



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29	NEKHA BOSE
30	NILEENA MARTIN
31	RONY MATHEW
32	SANGI JOSE
33	SEBIN JOSE
34	SONIYA SUNNY
35	VIVEK P VARGHESE




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CLASS	S8 IT
ELECTIVE	IT464 INFORMATION STORAGE MANAGEMENT
SL. No	NAME
1	ADITHYA SIVADAS
2	AMAL K MONEY
3	APARNA DILEEP
4	BINITTA THOMAS
5	GAYATHRI T A
6	GINET MATHECKAL
7	JISNA ROSE MARIYA
8	JOHN T JOY
9	LINU PAUL
10	SEBIN JOSE
11	SHON SONY.
12	VIVEK P VARGHESE
13	PAUL SEBY




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CLASS	S8 IT
ELECTIVE	CE 488 DISASTER MANAGEMENT
SL. No	NAME
1	ABHIRAMI A
2	ADITHYA SIVADAS
3	ANITA JOY
4	ANITTA JOSEPH
5	ARPITHA P VARGHESE
6	ASWINI NAIR
7	BINITTA THOMAS
8	EMIYA TONY
9	HISANA THASNEEM A H
10	JESEENA GEORGE
11	JISNA ROSE MARIYA
12	LINU PAUL
13	NEETHU JOY
14	SANGI JOSE
15	SOLLY PAULOSE
16	SONIYA SUNNY
17	PAUL SEBY




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CLASS	S8 IT
ELECTIVE	MT 482 INDUSTRIAL SAFETY
SL. No	NAME
1	AJITH N BENNY
2	ALBY SABU
3	AMAL K MONEY
4	ANVIN THOMAS
5	APARNA DILEEP
6	BASIL JAMES
7	ELDHO SABU
8	GAYATHRI T A
9	GINET MATHECKAL
10	GOWRI J
11	JESNA JAISON
12	MOTTY THOMAS
13	NEENA GEORGE
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CLASS	S8 IT
ELECTIVE	IE488 TOTAL QUALITY MANAGEMENT
SL. NO	NAME
1	ALDRIN REGI
2	ANANDHU KRISHNA
3	AROMAL MG
4	BOBY TOM MATHEW
5	DINIL THOMAS
6	ELDHOSE ROY
7	GIBIN JOSH Y
8	JOHN T JOY
9	K S MUHAMMED LILAQUATH
10	MATHEWS JOMY
11	MELVIN MATHEW
12	MIDHUN SAIJU
13	RONY MATHEW
14	SHON SONY
15	SOLLY PAULOSE




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KERALA TECHNOLOGICAL UNIVERSITY



SCHEME AND SYLLABUS

FOR

M. Tech. DEGREE PROGRAMME

IN

COMPUTER SCIENCE AND ENGINEERING

WITH SPECIALIZATION

COMPUTER SCIENCE AND ENGINEERING

CLUSTER 05 (ERNAKULAM II)

KERALA TECHNOLOGICAL UNIVERSITY

CET Campus, Thiruvananthapuram

Kerala, India -695016

(2015 ADMISSION ONWARDS)



KERALA TECHNOLOGICAL UNIVERSITY

SCHEME AND SYLLABUS FOR M. Tech. DEGREE PROGRAMME

Branch: COMPUTER SCIENCE AND ENGINEERING

Specialization: COMPUTER SCIENCE AND ENGINEERING

SEMESTER I

Exam Slot	Course No	Subjects	L-T-P	Internal Marks	End Semester Exam		Credits
					Marks	Duration (hrs)	
A	05CS 6001	Computational Intelligence	3-1-0	40	60	3	4
B	05CS 6003	Advanced Data Structures and Algorithms	3-1-0	40	60	3	4
C	05CS 6005	Data Mining and Warehousing	3-1-0	40	60	3	4
D	05CS 6007	Object Oriented Software Engineering	2-1-0	40	60	3	3
E	05CS 601x	Elective I	2-1-0	40	60	3	3
	05CS 6077	Research Methodology	1-1-0	100	0	0	2
	05CS 6091	CASE Lab	0-0-2	100	0	0	1

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Elective – I	
Course No	Subjects
05CS 6011	Web Security
05CS 6013	Digital Image processing
05CS 6015	Natural Language Processing



SEMESTER – III

Exam Slot	Course No	Subjects	L-T-P	Internal Marks	End Semester Exam		Credits
					Marks	Duration(hrs)	
A	05CS 704x	Elective IV	2-1-0	40	60	3	3
B	05CS 705x	Elective V	2-1-0	40	60	3	3
	05CS 7067	Seminar II	0-0-2	100	0	0	2
	05CS 7087	Project (Phase1)	0-0-8	50	0	0	6

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Elective – IV	
Course No	Subjects
05CS 7041	Big data Processing
05CS 7043	Cloud Computing
05CS 7045	Ontological Engineering

Elective – V	
Course No	Subjects
05CS 7051	Web Services
05CS 7053	Information Retrieval
05CS 7055	Distributed Algorithms

SEMESTER – IV

Exam Slot	Course No	Subjects	L-T-P	Internal Marks	End Semester Exam		Credits
					Marks	Duration(hrs)	
	05CS 7088	Project (Phase 2)	0-0-21	70	30	-	12

Total 68



ACADEMIC YEAR 2019-2020

M.TECH COMPUTER SCIENCE AND ENGINEERING

	Programme code	Programme name	Year of introduction	Semester	Electives offered by the department
1	M. TECH CSE	M. TECH CSE	2015 (KTU)	S3	BIGDATA PROCESSING
2	M. TECH CSE	M. TECH CSE	2015 (KTU)	S3	WEB SERVICES



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CLASS :	S3 - M-TECH COMPUTER SCIENCE AND ENGINEERING
ELECTIVE	05CS 7041 BIG DATA PROCESSING
SL. NO	NAME OF THE STUDENTS
1	AMBILY RAVEENDRAN
2	LAKSHMI SURESH
3	LINNIYA JOHN
4	NEENU JOY




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CLASS :	S3 - M-TECH COMPUTER SCIENCE AND ENGINEERING
ELECTIVE	05CS 7051 WEB SERVICES
SL. NO	NAME OF THE STUDENTS
1	AMBILY RAVEENDRAN
2	LAKSHMI SURESH
3	LINNIYA JOHN
4	NEENU JOY




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CURRICULUM AND SYLLABUS

FOR

M. TECH DEGREE PROGRAMME

IN

VLSI AND EMBEDDED SYSTEMS

OFFERED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CLUSTER 05 (ERNAKULAM II)

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

CET Campus, Thiruvananthapuram

Kerala, India -695016



SCHEME

SEMESTER – I

Exam Slot	Course No	Subjects	L-T-P	Internal Marks	End Semester Exam		Credits
					Marks	Duration (hrs)	
A	05EC 6001	CMOS Analog Design	3-1-0	40	60	3	4
B	05EC 6003	CMOS Digital Design	3-1-0	40	60	3	4
C	05EC 6005	Advanced Digital Design	3-1-0	40	60	3	4
D	05EC 6007	Embedded Processors	2-1-0	40	60	3	3
E	05EC 601x	Elective 1	2-1-0	40	60	3	3
	05EC 6077	Research methodology	1-1-0	100	0	0	2
	05EC 6091	HDL Lab	0-0-2	100	0	0	1

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Elective – I	
Course No	Subjects
05EC 6011	FPGA Based System Design
05EC 6013	Modelling of Embedded Systems
05EC 6015	Semiconductor Device Physics and Modelling

L – Lecture, T – Tutorial, P – Practical



SEMESTER – II

Exam Slot	Course No	Subjects	L-T-P	Internal Marks	End Semester Exam		Credits
					Marks	Duration (hrs)	
A	05EC 6002	Mixed Signal VLSI Design	3-1-0	40	60	3	4
B	05EC 6004	Sensor Technologies and MEMS	2-1-0	40	60	3	3
C	05EC 6006	Embedded Real Time Systems	2-1-0	40	60	3	3
D	05EC 602x	Elective 2	2-1-0	40	60	3	3
E	05EC 603x	Elective 3	2-1-0	40	60	3	3
	05EC 6066	Seminar	0-0-2	100	0	0	2
	05EC 6088	Mini Project	0-0-4	100	0	0	2
	05EC 6092	Embedded Systems Lab	0-0-2	100	0	0	1

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Elective – II	
Course No	Subjects
05EC 6022	Design of Power Converters
05EC 6024	System Identification and System Simulation
05EC 6026	VLSI Process Technology

Elective – III	
Course No	Subjects
05EC 6032	High Speed Digital Design
05EC 6034	Low Power VLSI Design
05EC 6036	Nanomaterials, Structures and Devices

L – Lecture, T – Tutorial, P – Practical



SEMESTER – III

Exam Slot	Course No	Subjects	L-T-P	Internal Marks	End Semester Exam		Credits
					Marks	Duration(hrs)	
A	05EC 704x	Elective 4	2-1-0	40	60	3	3
B	05EC 705x	Elective 5	2-1-0	40	60	3	3
	05EC 7067	Seminar II	0-0-2	100	0	0	2
	05EC 7087	Project (Phase 1)	0-0-12	50	0	0	6

14

Elective – IV	
Course No	Subjects
05EC 7041	Electromagnetic Compatibility
05EC 7043	Testing of VLSI Circuits
05EC 7045	VLSI Signal Processing
Elective – V	
Course No	Subjects
05EC 7051	VLSI and Computer Aided Design
05EC 7053	Hardware / Software Co-design
05EC 7055	Embedded Networking



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ACADEMIC YEAR 2019-2020

M.TECH VLSI & EMBEDDED SYSTEMS DESIGN

	Programme code	Programme name	Year of introduction	Semester	Electives offered by the department
1	M. TECH ECE	M. TECH ECE	2015 (KTU)	S3	TESTING OF VLSI CIRCUITS
2	M. TECH ECE	M. TECH ECE	2015 (KTU)	S3	VLSI AND COMPUTER AIDED DESIGN



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CLASS :	S3 - M-TECH VLSI & EMBEDDED SYSTEM
ELECTIVE	05EC 7043 TESTING OF VLSI CIRCUITS
SL. NO	NAME OF THE STUDENTS
1	GRACIELA ELIZABETH
2	KAVYA RAJ
3	SITHARA SALIM




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CLASS :	S3 - M-TECH VLSI & EMBEDDED SYSTEM
ELECTIVE	05EC 7051 VLSI AND COMPUTER AIDED DESIGN
SL. NO	NAME OF THE STUDENTS
1	GRACIELA ELIZABETH
2	KAVYA RAJ
3	SITHARA SALIM




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MASTER OF BUSINESS ADMINISTRATION

**Programme
Under**



APJ Abdul Kalam Technological University

SYLLABUS & COURSE PLAN

Trimester 1

April 2016



Subjects and credits in TRIMESTER I

Exam Slot	Course No.	Course Name	L-T-P	Internal Marks	End Trimester Marks	Exam Duration (hours)	Credits
	11	Quantitative Techniques	4-0-0	40	60	3	3
	12	Organizational Behaviour I	4-0-0	40	60	3	3
	13	Managerial Economics	4-0-0	40	60	3	3
	14	Business Communication	4-0-0	40	60	3	3
	15	Accounting for Managers	4-0-0	40	60	3	3
	16	Business and Society	4-0-0	40	60	3	3
	17	Soft-skills I	0-2-0	20			
	18	Project	0-0-3				
		TOTAL	24-2-3	260	360		18

Subjects and Credits in Trimester 2

Course No.	Course Name	L-T-P	Internal Marks	End Trimester Marks	Exam duration (Hrs.)	Credits
21	Organizational Behaviour II	4-0-0	40	60	3	3
22	Macro Economics	4-0-0	40	60	3	3
23	Marketing Management I	4-0-0	40	60	3	3
24	Operations Management	4-0-0	40	60	3	3
25	Financial Management I	4-0-0	40	60	3	3
26	Business Law	4-0-0	40	60	3	3
27	Soft-Skills II	0-2-0	20	-	-	-
28	Project	0-0-3	-	-	-	-
	Total	24-2-3	260	360	-	18

Subjects and Credits in Trimester 3

Course No.	Course Name	L-T-P	Internal Marks	End Trimester Marks	Exam duration (Hrs.)	Credits
31	Marketing Management II	4-0-0	40	60	3	3
32	Financial Management II	4-0-0	40	60	3	3
33	Human Resource Management	4-0-0	40	60	3	3
34	Business Research Methods	2-0-0	20	30	1.5	1.5
35	Management Information Systems	2-0-0	20	30	1.5	1.5
36	Operations Research	4-0-0	40	60	3	3
37	Strategic Management	4-0-0	40	60	3	3
38	Soft-Skills III	0-2-0	-	60	-	3
39	Project	0-0-3	-	-	-	-
	Total	24-2-3	240	420	-	21



TRIMESTER IV

Exam Slot	Course No.	Course Name	L-T-P	Internal Marks	End Trimester Marks	Exam Duration (hours)	Credits
	41	International Business	4-0-0	40	60	3	3
	42	Business Analytics	4-0-0	40	60	3	3
	43	Elective I	4-0-0	40	60	3	3
	44	Elective II	4-0-0	40	60	3	3
	45	Elective III	4-0-0	40	60	3	3
	46	Elective IV	4-0-0	40	60	3	3
	47	Project	0-0-5				
		TOTAL	24-0-5	240	300		18

TRIMESTER V

Exam Slot	Course No.	Course Name	L-T-P	Internal Marks	End Trimester Marks	Exam Duration (hours)	Credits
	51	Entrepreneurship	4-0-0	40	60	3	3
	52	Business Ethics and Corporate Governance	4-0-0	40	60	3	3
	53	Elective V	4-0-0	40	60	3	3
	54	Elective VI	4-0-0	40	60	3	3
	55	Elective VII	4-0-0	40	60	3	3
	56	Elective VIII	4-0-0	40	60	3	3
	57	Project (Report and Viva-voce)	0-0-5	50	50		4
		TOTAL	24-0-5	290	410		22

TRIMESTER VI

Exam Slot	Course No.	Course Name	L-T-P	Internal Marks	End Trimester Marks	Exam Duration (hours)	Credits
	61	Cross Cultural Management	4-0-0	40	60	3	3
	62	Elective IX	4-0-0	40	60	3	3
	63	Elective X	4-0-0	40	60	3	3
	64	Comprehensive Project (Report and Viva-voce)	0-3-9	40	160		6
	65	Internship	0-2-3	60			3
		TOTAL	12-5-12	220	340		18



Trimester IV

Course No.	Course Name
Common Courses	
41	International Business
42	Business Analytics
Electives	
FIN-T4-1	Financial Markets and Services
FIN-T4-2	Project Finance
FIN-T4-3	Financial Risk Management
FIN-T4-4	Commercial Banking System
FIN-T4-5	Investment Management
FIN-T4-6	Financial Statement Analysis
HR-T4-1	Training and Development
HR-T4-2	Organizational Change & Development
HR-T4-3	Industrial Relations and Labour Laws
HR-T4-4	Managing Self and Others
HR-T4-5	Talent Sourcing & Acquisition
HR-T4-6	HR-T4-6 Industrial Psychology
MKT-T4-1	Rural Marketing
MKT-T4-2	Consumer Behavior
MKT-T4-3	Integrated Marketing Communication



MKT-T4-4	Services Marketing
MKT-T4-5	Marketing Research
MKT-T4-6	Sales and Distribution Management
OM-T4-1	Supply Chain and Logistics Management
OM-T4-2	Facilities & Location Management
OM-T4-3	Quality Management
OM-T4-4	Business Process Reengineering
OM-T4-5	World Class Manufacturing
OM-T4-6	Logistics and Material Handling
SYS-T4-1	System Analysis and Design
SYS-T4-2	Software Engineering
SYS-T4-3	Enterprise Resource Planning
SYS-T4-4	e-Business
SYS-T4-5	e Governance
SYS-T4-6	Business Database Systems



Trimester V

Course No.	Course Name
Common Courses	
51	Entrepreneurship
52	Business Ethics and Corporate Governance
Electives	
FIN-T5-7	Behavioral Finance
FIN-T5-8	Security Analysis and Portfolio Management
FIN-T5-9	Corporate Taxation
FIN-T5-10	International Finance
FIN-T5-11	Non Banking Financial Companies (NBFCs) and Micro Finance
FIN-T5-12	Cost Accounting and Budget Control
HR-T5-7	Performance Management
HR-T5-8	Compensation Management
HR-T5-9	Leadership, Power and Influence
HR-T5-10	Negotiation and Conflict Resolution
HR-T5-11	HRM – Policy & Strategy
HR-T5-12	Global Human Resources Management
MKT-T5-7	International Marketing
MKT-T5-8	Brand Management
MKT-T5-9	Retail Management
MKT-T5-10	Social Marketing
MKT-T5-11	Customer Relationship Management
MKT-T5-12	Digital and Social Media Marketing



OM-T5-7	Healthcare Management
OM-T5-8	Service Operations Management
OM-T5-9	Technology Management
OM-T5-10	Innovation Management and New Product Development
OM-T5-11	Green Logistics and Supply Chain Management
OM-T5-12	Six Sigma and Total Quality Management
SYS-T5-7	Software Project Management
SYS-T5-8	Knowledge Management in IT and ITES
SYS-T5-9	Business Intelligence and Data Mining
SYS-T5-10	Simulation for Managers
SYS-T5-11	Global Information System
SYS-T5-12	Cloud Computing



Trimester VI

Course No.	Course Name
Common Courses	
61	Cross Cultural Management
Electives	
FIN-T6-13	Strategic Financial Management
FIN-T6-14	Financial Derivatives
FIN-T6-15	Insurance Management
HR-T6-13	Management of Creativity
HR-T6-14	Human Resource Analytics
HR-T6-15	Human Resource Consulting – Profession and Practice
MKT-T6-13	Customer Analytics
MKT-T6-14	B2B Marketing
MKT-T6-15	Strategic Marketing
OM-T6-13	Logistics and Material Handling
OM-T6-14	Advanced Project Management
OM-T6-15	Advanced Maintenance Management
OM-T6-16	Business Sustainability
SYS-T6-13	Business Data Mining
SYS-T6-14	Big Data Analytics in Business
SYS-T6-15	Information Security And Risk Management



ACADEMIC YEAR 2019-2020

MANAGEMENT OF BUSINESS ADMINISTRATION

Programme Code	Programme name	Year of Introduction	Semester	Electives offered by the department
MBA	MBA	2016 (KTU)	T4	FINANCIAL MARKETS AND SERVICES
MBA	MBA	2016 (KTU)	T4	COMMERCIAL BANKING SYSTEM
MBA	MBA	2016 (KTU)	T4	ORGANIZATIONAL CHANGE AND DEVELOPMENT
MBA	MBA	2016 (KTU)	T4	INDUSTRIAL RELATIONS AND LABOUR LAWS
MBA	MBA	2016 (KTU)	T4	SERVICES MARKETING
MBA	MBA	2016 (KTU)	T4	SALES AND DISTRIBUTION MANAGEMENT
MBA	MBA	2016 (KTU)	T4	QUALITY MANAGEMENT
MBA	MBA	2016 (KTU)	T4	LOGISTICS AND MATERIAL HANDLING
MBA	MBA	2016 (KTU)	T5	SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
MBA	MBA	2016 (KTU)	T5	NON-BANKING FINANCIAL COMPANIES (NBFCs) AND MICRO FINANCE
MBA	MBA	2016 (KTU)	T5	LEADERSHIP, POWER AND INFLUENCE
MBA	MBA	2016 (KTU)	T5	NEGOTIATION AND CONFLICT RESOLUTION
MBA	MBA	2016 (KTU)	T5	BRAND MANAGEMENT
MBA	MBA	2016 (KTU)	T5	CUSTOMER RELATIONSHIP MANAGEMENT
MBA	MBA	2016 (KTU)	T5	INNOVATION MANAGEMENT AND NEW PRODUCT DEVELOPMENT
MBA	MBA	2016 (KTU)	T5	SIX SIGMA AND TOTAL QUALITY MANAGEMENT
MBA	MBA	2016 (KTU)	T6	INSURANCE MANAGEMENT
MBA	MBA	2016 (KTU)	T6	HUMAN RESOURCE ANALYTICS
MBA	MBA	2016 (KTU)	T6	B2B MARKETING
MBA	MBA	2016 (KTU)	T6	BUSINESS SUSTAINABILITY



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ELECTIVE	FIN-T4-1FINANCIAL MARKETS AND SERVICES
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3	AKHIL SELVAN
4	ALONA TOMY
5	AMAL SUNNY
6	AMALU HANNA REJI
7	ANNU ROSE BABU
8	ANUROOPA VISWANATHAN
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10	ASHMI BABY
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21	MARTIN SIBY
22	MELVIN THOMAS
23	RAHUL VISWAN
24	ROMAL JOSE
25	SHALINI GIGI
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27	TONY THOMAS



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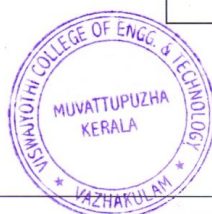
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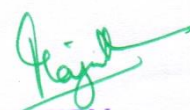
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16	MELVIN THOMAS
17	NIYA TOMY
18	RAHUL VISWAN
19	RISHAB JOHNSON
20	ROMAL JOSE
21	ROSE MARY BABY
22	SOUMYAMOL MICHAEL
23	SRUTHI G
24	TONY THOMAS
25	YADHUKRISHNAN .B



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Email: vjcet@vjcet.org
www.vjcet.org



CLASS :	T5 MBA
ELECTIVE	OM-T5-10 INNOVATION MANAGEMENT AND NEW PRODUCT DEVELOPMENT
SL. NO	NAME OF STUDENTS
1	ABIN JOY
2	AJAS MYTHEEN
3	ALEX J. KANDATHIL
4	CHRISTEENA THANKACHAN
5	DELLA JOSEPH
6	MANJIMA. V.R
7	MARIA SHAJI
8	NIYA TOMY
9	RISHAB JOHNSON
10	SRUTHI G
11	YADHUKRISHNAN .B




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CLASS :	T5 MBA
ELECTIVE	OM-T5-12 SIX SIGMA AND TOTAL QUALITY MANAGEMENT
SL. NO	NAME OF STUDENTS
1	ABIN JOY
2	AJAS MYTHEEN
3	ALEX J. KANDATHIL
4	CHRISTEENA THANKACHAN
5	DELLA JOSEPH
6	MANJIMA. V.R
7	MARIA SHAJI
8	NIYA TOMY
9	RISHAB JOHNSON
10	SRUTHI G
11	YADHUKRISHNAN .B




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CLASS :	T6 MBA
ELECTIVE	FIN-T6-15 INSURANCE MANAGEMENT
SL. NO	NAME OF STUDENTS
1	ADORNA L GEORGE
2	AHAMMED SUHAIL P.A
3	AKHIL SELVAN
4	ALONA TOMY
5	AMAL SUNNY
6	AMALU HANNA REJI
7	ANNU ROSE BABU
8	ANUROOPA VISWANATHAN
9	ARIS K.N
10	ASHMI BABY
11	ATHIRA SATHYAN P
12	ATHULYA RAJEEV
13	BASIL JAYAN
14	BASIL REJI
15	BENSEN BENNY
16	DENNAMOL BENNY
17	JIJO MATHEW
18	JOSNAMOL JACOB
19	LEYA SUNNY
20	MARIA SHAJI
21	MARTIN SIBY
22	MELVIN THOMAS
23	RAHUL VISWAN
24	ROMAL JOSE
25	SHALINI GIGI
26	SREEKUTTY RAJAN
27	TONY THOMAS




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CLASS :	T6 MBA
ELECTIVE	HR-T6-14 HUMAN RESOURCE ANALYTICS
SL. NO	NAME OF THE STUDENTS
1	ABIN JOY
2	ABIN SHAJAN
3	ADORNA L GEORGE
4	AKHIL SELVAN
5	ALONA TOMY
6	AMALU HANNA REJI
7	ANNU ROSE BABU
8	ANSI PS
9	ASHMI BABY
10	ATHIRA SATHYAN P
11	ATHULYA RAJEEV
12	BHAVYA DAS
13	DELLA JOSEPH
14	DENNAMOL BENNY
15	JIJO MATHEW
16	JOSNAMOL JACOB
17	LEYA SUNNY
18	M NANDHA KUMAR
19	MANJIMA. V.R
20	ROSE MARY BABY
21	SHALINI GIGI
22	SOUMYAMOL MICHAEL
23	SREEKUTTY RAJAN




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CLASS :	T6 MBA
ELECTIVE	MKT-T6-14 B2B MARKETING
SL. NO	NAME OF THE STUDENTS
1	ABIN SHAJAN
2	AHAMMED SUHAIL P.A
3	AJAS MYTHEEN
4	ALEX J. KANDATHIL
5	AMAL SUNNY
6	ANSI PS
7	ANUROOPA VISWANATHAN
8	ARIS K.N
9	BASIL JAYAN
10	BASIL REJI
11	BENSEN BENNY
12	BHAVYA DAS
13	CHRISTEENA THANKACHAN
14	M NANDHA KUMAR
15	MARTIN SIBY
16	MELVIN THOMAS
17	NIYA TOMY
18	RAHUL VISWAN
19	RISHAB JOHNSON
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CLASS :	T6 MBA
ELECTIVE	OM-T6-16 BUSINESS SUSTAINABILITY
SL. NO	NAME OF STUDENTS
1	ABIN JOY
2	AJAS MYTHEEN
3	ALEX J. KANDATHIL
4	CHRISTEENA THANKACHAN
5	DELLA JOSEPH
6	MANJIMA. V.R
7	MARIA SHAJI
8	NIYA TOMY
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