



INSTITUTIONAL DATA

Metric No. 1.3.2

AVERAGE PERCENTAGE OF COURSES THAT INCLUDE EXPERIENTIAL LEARNING
THROUGH PROJECT WORK/FIELD WORK/INTERNSHIP DURING LAST FIVE YEARS

REGULATION 2017

(UPTO 6 SEMESTER)							(UPTO 4 SEMESTER)		
DEPARTMENT	B.E. CIVIL	B.E. CSE	B.E. EEE	B.E. ECE	B.E. MECH	B.E. MECHT	M.E. CSE	M.E. STRUCT	M.E. VLSI
No. of Courses that included experiential learning	40	45	41	48	43	41	19	19	19
No. of Courses	52	52	50	51	52	50	20	22	20

Total number of Courses that included experiential learning : 315
Total number of Courses : 369
Percentage of courses that include experiential learning : 85.36

REGULATION 2013

(UPTO 8 SEMESTER)							(UPTO 4 SEMESTER)		
DEPARTMENT	B.E. CIVIL	B.E. CSE	B.E. EEE	B.E. ECE	B.E. MECH	B.E. MECHT	M.E. CSE	M.E. STRUCT	M.E. VLSI
No. of Courses that included experiential learning	52	57	53	58	52	54	21	16	18
No. of Courses	63	64	64	65	66	66	22	19	19

Total number of Courses that included experiential learning : 381
Total number of Courses : 448
Average percentage of courses that include experiential : 85.04



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Government of Tamil Nadu, Chennai - 600 096

DEPARTMENT OF DEPARTMENT OF CIVIL ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2017

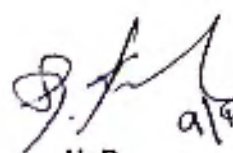
B.E. CIVIL

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS8151	Communicative English
2.		GE8152	Engineering Graphics
3.	SEMESTER 2	BES251	Basic Electrical and Electronics Engineering
4.		GE8291	Environmental Science and Engineering
5.		HS8251	Technical English
6.		GE8292	Engineering Mechanics
7.		PHS201	Physics For Civil Engineering
8.		HS8251	Technical English
9.	SEMESTER 3	CE8301	Strength of Materials I
10.		CE8302	Fluid Mechanics
11.		CE8351	Surveying
12.		CE8391	Construction Materials
13.		CE8392	Engineering Geology
14.		CE8311	Construction Materials Laboratory
15.		CE8361	Surveying Laboratory
16.		HS8381	Interpersonal Skills / Listening and Speaking
17.	SEMESTER 4	CE8401	Construction Techniques and Practices
18.		CE8402	Strength of Materials II
19.		CE8403	Applied Hydraulic Engineering
20.		CE8404	Concrete Technology
21.		CE8491	Soil Mechanics
22.		CE8451	Strength of Materials Laboratory
23.		CE8451	Hydraulic Engineering Laboratory
24.		HS8461	Advanced Reading and Writing
25.	SEMESTER 5	CE8501	Design of Reinforced Cement Concrete Elements

26.		CE8502	Structural Analysis I
27.		EN8491	Water Supply Engineering
28.		CE8591	Foundation Engineering
29.		GE8071	Disaster Management
30.		OR0551	Renewable energy resources
31.		CE8511	Soil Mechanics Laboratory
32.		CE8512	Water and Waste Water Analysis Laboratory
33.	SEMESTER 6	CE8601	Design of Steel Structural Elements
34.		CE8602	Structural Analysis II
35.		CE8603	Irrigation Engineering
36.		CE8604	Highway Engineering
37.		EN8592	Waste water Engineering
38.		CE8005	Air Pollution and Control Engineering
39.		CE8611	Highway Engineering Laboratory
40.		CE8612	Irrigation and Environmental Engineering Drawing

Total courses : 52

Total number of courses included : 40


HoD 9/9/2020.


PRINCIPAL 9/9/20



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COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated by Anna University, Chennai. No. 1072/2003/2013. Established in 2003.
Kilathukudavu, Coimbatore - 642 109.

DEPARTMENT OF CIVIL ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2013

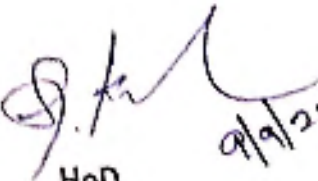
B.E. CIVIL

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS6151	Technical English - I
2.		GE6152	Engineering Graphics
3.		GE6161	Computer Practices Laboratory
4.	SEMESTER 2	GE6252	Basic Electrical and Electronics Engineering
5.		GE6253	Engineering Mechanics
6.		GE6261	Computer Aided Drafting and Modeling Laboratory
7.		GE6262	Physics and Chemistry Laboratory - II
8.		HS6251	Technical English - II
9.	SEMESTER 3	GE6351	Environmental Science and Engineering
10.		CE6301	Engineering Geology
11.		CE6302	Mechanics of Solids
12.		CE6303	Mechanics of Fluids
13.		CE6304	Surveying I
14.		GE6351	Environmental Science and Engineering
15.		CE6311	Survey Practical I
16.		CE6312	Computer Aided Building Drawing
17.	SEMESTER 4	CE6401	Construction Materials
18.		CE6402	Strength of Materials
19.		CE6403	Applied Hydraulic Engineering
20.		CE6404	Surveying II
21.		CE6405	Soil Mechanics
22.		CE6411	Strength of Materials Laboratory
23.		CE6412	Hydraulic Engineering Laboratory

24.			
25.	SEMESTER 5	CE6413	Survey Practical II
26.		CE6501	Structural Analysis I
27.		CE6502	Foundation Engineering
28.		CE6503	Environmental Engineering I
29.		CE6504	Highway Engineering
30.		CE6505	Design of Reinforced Concrete Elements
31.		CE6506	Construction Techniques, Equipment and Practice
32.		GE6563	Communication Skills - Laboratory Based
33.		CE6511	Soil Mechanics Laboratory
34.		CE6512	Survey Camp*
35.	SEMESTER 6	CE6601	Design of Reinforced Concrete & Brick Masonry Structures
36.		CE6602	Structural Analysis II
37.		CE6603	Design of Steel Structures
38.		CE6604	Railways, Airports and Harbour Engineering
39.		CE6605	Environmental Engineering II
40.		CE6611	Environmental Engineering Laboratory
41.		CE6612	Concrete and Highway Engineering Laboratory
42.	SEMESTER 7	CE6713	Estimation and Quantity Surveying
43.		CE6701	Structural Dynamics and Earthquake Engineering
44.		CE6702	Prestressed Concrete Structures
45.		CE6703	Water Resources and Irrigation Engineering
46.		EN6704	Industrial Waste Management
47.		CE6006	Traffic Engineering and Management
48.		CE6711	Computer Aided Design and Drafting Laboratory
49.		CE6712	Design Project
50.	SEMESTER 8	MG6851	Principles of Management
51.		CE6016	Prefabricated Structures
52.		CE6021	Repair and Rehabilitation of Structures
		CE6811	Project Work

Total courses : 63

Total number of courses included : 52


HoD 9/9/2020


PRINCIPAL



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Agreement No. 79/11, New Colony and adjacent to Anna University, Chennai - 600 095, Tamil Nadu
Kinnathukadavu, Coimbatore - 642 109.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2017

B.E. CSE

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS8151	Communicative English
2.		PH8151	Engineering Physics
3.		CY8151	Engineering Chemistry
4.		BS8161	Physics and Chemistry Laboratory
5.		GE8151	Problem Solving and Python Programming
6.		GE8161	Problem Solving and Python Programming Laboratory
7.	SEMESTER 2	PI8252	Physics for Information Science
8.		BE8255	Basic Electrical, Electronics and Measurement Engineering
9.		GE8291	Environmental Science and Engineering
10.		CS8251	Programming in C
11.		CS8261	C Programming Laboratory
12.		GE8261	Engineering Practices Laboratory
13.	SEMESTER 3	CS8351	Digital Principles and System Design
14.		CS8391	Data Structures
15.		CS8392	Object Oriented Programming
16.		EC8395	Communication Engineering
17.		CS8381	Data Structures Laboratory
18.		CS8383	Object Oriented Programming Laboratory
19.		CS8382	Digital Systems Laboratory
20.		HS8381	Interpersonal Skills/Listening & Speaking

21.	SEMESTER 4	CS8491	Computer Architecture
22.		CS8492	Database Management Systems
23.		CS8451	Design and Analysis of Algorithms
24.	SEMESTER 4	CS8493	Operating Systems
25.		CS8494	Software Engineering
26.		CS8481	Database Management Systems Laboratory
27.		CS8461	Operating Systems Laboratory
28.		HS8461	Advanced Reading and Writing
29.	SEMESTER 5	CS8591	Computer Networks
30.		EC8691	Microprocessors and Microcontrollers
31.		CS8501	Theory of Computation
32.		CS8592	Object Oriented Analysis and Design
33.		EC8681	Microprocessors and Microcontrollers Laboratory
34.		CS8582	Object Oriented Analysis and Design Laboratory
35.		CS8581	Networks Laboratory
36.	SEMESTER 6	CS8651	Internet Programming
37.		CS8691	Artificial Intelligence
38.		CS8601	Mobile Computing
39.		CS8602	Compiler Design
40.		CS8075	Data Warehousing and Data Mining
41.		CS8603	Distributed Systems
42.		CS8661	Internet Programming Laboratory
43.		CS8662	Mobile Application Development Laboratory
44.		CS8611	Mini Project
45.		HS8581	Professional Communication

Total Subjects : 52

Total Number of Subjects Included : 45

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HOD 06/08/20

PRINCIPAL
06/08/20

**LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP**

REGULATION 2013

B.E. CSE

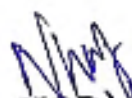
S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS6151	Technical English – I
2.		GE6151	Computer Programming
3.		GE6161	Computer Practices Laboratory
4.		PH6151	Engineering Physics – I
5.		CY6151	Engineering Chemistry – I
6.		GE6163	Physics and Chemistry Laboratory - I
7.	SEMESTER 2	HS6251	Technical English - II
8.		PH6251	Engineering Physics – II
9.		CY6251	Engineering Chemistry – II
10.		CS6201	Digital Principles and System Design
11.		GE6262	Physics and Chemistry Laboratory - II
12.		GE6162	Engineering Practices Laboratory
13.		CS6202	Programming and Data Structures I
14.		CS6211	Digital Laboratory
15.	SEMESTER 3	CS6212	Programming and Data Structures Laboratory I
16.		CS6301	Programming and Data Structure II
17.		CS6302	Database Management Systems
18.		CS6303	Computer Architecture
19.		CS6304	Analog and Digital Communication
20.		GE6351	Environmental Science and Engineering
21.		CS6311	Programming and Data Structure Laboratory II
22.		CS6312	Database Management Systems Laboratory

23.	SEMESTER 4	CS6551	Computer Networks
24.		CS6401	Operating Systems
25.		CS6402	Design and Analysis of Algorithms
26.		EC6504	Microprocessor and Microcontroller
27.		CS6403	Software Engineering
28.		CS6411	Networks Laboratory
29.	SEMESTER 4	CS6412	Microprocessor and Microcontroller Laboratory
30.		CS6413	Operating Systems Laboratory
31.	SEMESTER 5	CS6501	Internet Programming
32.		CS6502	Object Oriented Analysis and Design
33.		CS6503	Theory of Computation
34.		CS6504	Computer Graphics
35.		CS6511	Case Tools Laboratory
36.		CS6512	Internet Programming Laboratory
37.		CS6513	Computer Graphics Laboratory
38.	SEMESTER 6	CS6601	Distributed Systems
39.		IT6601	Mobile Computing
40.		CS6660	Compiler Design
41.		IT6502	Digital Signal Processing
42.		CS6659	Artificial Intelligence
43.		CS6611	Mobile Application Development Laboratory
44.		CS6612	Compiler Laboratory
45.		GE6674	Communication and Soft Skills - Laboratory Based
46.		IT6702	Data Warehousing and Data Mining
47.	SEMESTER 7	CS6701	Cryptography and Network Security
48.		CS6702	Graph Theory and Applications
49.		CS6703	Grid and Cloud Computing
50.		CS6711	Security Laboratory
51.		CS6712	Grid and Cloud Computing Laboratory
52.		CS6004	Cyber Forensics
53.		CS6005	Advanced Database Systems

54.	SEMESTER 8	CS6801	Multi – Core Architectures and Programming
55.		CS6007	Information Retrieval
56.		CS6010	Social Network Analysis
57.		MG6088	Software Project Management

Total Subjects : 64

Total Number of Subjects Included : 57


HOD 6/8/20


PRINCIPAL
6/8/20

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK / FIELD / INTERNSHIP**

REGULATION 2017

B.E. EEE

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS8151	Communicative English
2.		PH8151	Engineering Physics
3.		BS8161	Physics and Chemistry Laboratory
4.		GE8152	Engineering Graphics
5.	SEMESTER 2	EE8251	Circuit Theory
6.		GE8291	Environmental Science and Engineering
7.		PH8201	Physics For Electronics Engineering
8.		HS8251	Technical English
9.		GE8261	Engineering Practices Laboratory
10.		EE8261	Electric Circuits Laboratory
11.	SEMESTER 3	EE8351	Digital Logic Circuits
12.		EE8391	Electromagnetic Theory
13.		EE8301	Electrical Machines - I
14.		EC8353	Electron Devices and Circuits
15.		ME8792	Power Plant Engineering
16.		EC8311	Electronics Laboratory
17.		EE8311	Electrical Machines Laboratory - I
18.	SEMESTER 4	EE8401	Electrical Machines - II
19.		EE8412	Technical Seminar
20.		EE8402	Transmission and Distribution

21.		EE8403	Measurements and Instrumentation
22.		EE8451	Linear Integrated Circuits and Applications
23.		IC8451	Control Systems
24.		EE8411	Electrical Machines Laboratory - II
25.		EE8461	Linear and Digital Integrated Circuits Laboratory
26.	SEMESTER 5	EE8501	Power System Analysis
27.		EE8551	Microprocessors and Microcontrollers
28.		EE8552	Power Electronics
29.		EE8591	Digital Signal Processing
30.		EE8004	Modern Power Converters
31.		EE8511	Control and Instrumentation Laboratory
32.		HS8581	Professional Communication
33.	SEMESTER 6	EE8601	Solid State Drives
34.		EE8602	Protection and Switchgear
35.		EC8651	Communication Engineering
36.		EE8691	Embedded Systems
37.		EE8661	Power Electronics and Drives Laboratory
38.		EE8681	Microprocessors and Microcontrollers Laboratory
39.		EE8611	Mini Project
40.		OCE551	Air Pollution and Control Engineering
41.		EE8005	Special Electrical Machines

Total courses : 50

Total number of courses included : 41

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HOD
11/01/2020
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PRINCIPAL
11/01/2020



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai. ISO 9001:2015 Certified Institution)
Kinathukadavu, Coimbatore - 642 109.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2013

B.E. EEE

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS6151	Technical English - I
2.		GE6152	Engineering Graphics
3.		PH6151	Engineering Physics - I
4.		GE6161	Computer Practices Laboratory
5.		GE6162	Engineering practices Laboratory
6.		GE6163	Physics and Chemistry Laboratory - I
7.	SEMESTER 2	PH6251	Engineering Physics - II
8.		GE6262	Physics and Chemistry Laboratory - II
9.		EE6211	Electric Circuits Laboratory
10.		EE6201	Circuit Theory
11.		HS6251	Technical English - II
12.	SEMESTER 3	EE6301	Digital Logic Circuits
13.		EE6302	Electromagnetic Theory
14.		GE6351	Environmental Science and Engineering
15.		EC6202	Electronic Devices and Circuits
16.		EE6303	Linear Integrated Circuits and applications
17.		EC6361	Electronics Laboratory
18.		EE6311	Linear and Digital Integrated Circuits Laboratory

19.	SEMESTER 4	EE6401	Electrical Machines- I
20.		EE6402	Transmission and Distribution
21.		EE6403	Discrete Time Systems and Signal
22.		EE6404	Measurements and Instrumentation
23.		EE6411	Electrical Machines Laboratory- I
24.	SEMESTER 5	EE6501	Power System Analysis
25.		EE6502	Microprocessors and Microcontrollers
26.		ME6701	Power Plant Engineering
27.		EE6503	Power Electronics
28.		EE6504	Electrical Machines-II
29.		IC6501	Control Systems
30.		EE6511	Control and Instrumentation Laboratory
31.		EE6512	Electrical Machines Laboratory- II
32.	SEMESTER 6	EC6651	Communication Engineering
33.		EE6601	Solid State Drives
34.		EE6602	Embedded Systems
35.		EE6603	Power System Operation and Control
36.		EE6604	Design of Electrical Machines
37.		EE6002	Power System Transients
38.		EE6611	Power Electronics and Drives Laboratory
39.		EE6613	Presentation Skills and Technical Seminar
40.		EE6612	Microprocessors and Microcontrollers Laboratory
41.	SEMESTER 7	EE6701	High Voltage Engineering
42.		EE6702	Protection and Switchgear

43.		EE6703	Special Electrical Machines
44.		EE6004	Flexible AC Transmission Systems
45.		MG6851	Principles of Management
46.		EE6005	Power Quality
47.		EE6008	Microcontroller Based System Design
48.		EE6711	Power System Simulation Laboratory
49.		EE6712	Comprehension
50.	SEMESTER 8	EE6801	Electric Energy Generation, Utilization and Conservation
51.		EE6009	Power Electronics for Renewable Energy Systems
52.		GE6075	Professional Ethics in Engineering
53.		EE6811	Project Work

Total courses : 64

Total number of courses included : 53

(Signature)
19/08/20
(Gunasriyaa)

(Signature)
PRINCIPAL
19/08/20



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by the AICTE, New Delhi. Affiliated to Anna University, Chennai. ISO 9001:2008 Certified Institution.
Kothukudavu, Coimbatore - 642 109.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2017

B.E. ECE

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS8151	Communicative English
2.		MA8151	Engineering Mathematics – I
3.		PH8151	Engineering Physics
4.		CY8151	Engineering Chemistry
5.		GE8151	Problem Solving and Python Programming
6.		GE8152	Engineering Graphics
7.		GE8161	Problem Solving and Python Programming Laboratory
8.		BS8161	Physics and Chemistry Laboratory
9.	SEMESTER 2	HS8251	Technical English
10.		MA8251	Engineering Mathematics – II
11.		PH8253	Physics for Electronics Engineering
12.		BE8254	Basic Electrical and Instrumentation Engineering
13.		EC8251	Circuit Analysis
14.		EC8252	Electronic Devices
15.		EC8261	Circuits and Devices Laboratory
16.		GE8261	Engineering Practices Laboratory
17.	SEMESTER 3	MA8352	Linear Algebra and Partial Differential Equations
18.		EC8393	Fundamentals of Data Structures In C
19.		EC8351	Electronic Circuits- I
20.		EC8352	Signals and Systems
21.		EC8392	Digital Electronics
22.		EC8391	Control Systems Engineering
23.		EC8381	Fundamentals of Data Structures in C Laboratory
24.		EC8361	Analog and Digital Circuits Laboratory
25.	SEMESTER 4	HS8381	Interpersonal Skills/Listening & Speaking
26.		MA8451	Probability and Random Processes

27.		EC8452	Electronic Circuits II
28.		EC8491	Communication Theory
29.		EC8451	Electromagnetic Fields
30.		EC8453	Linear Integrated Circuits
31.		GE8291	Environmental Science and Engineering
32.		EC8461	Circuits Design and Simulation Laboratory
33.		EC8462	Linear Integrated Circuits Laboratory
34.	SEMESTER 5	EC8501	Digital Communication
35.		EC8553	Discrete-Time Signal Processing
36.		EC8552	Computer Architecture and Organization
37.		EC8551	Communication Networks
38.		EC8562	Digital Signal Processing Laboratory
39.		EC8561	Communication Systems Laboratory
40.		EC8563	Communication Networks Laboratory
41.	SEMESTER 6	EC8691	Microprocessors and Microcontrollers
42.		EC8095	VLSI Design
43.		EC8652	Wireless Communication
44.		MG8591	Principles of Management
45.		EC8651	Transmission Lines and RF Systems
46.		EC8681	Microprocessors and Microcontrollers Laboratory
47.		EC8661	VLSI Design Laboratory
48.		EC8611	Technical Seminar

Total courses : 51

Total number of courses included : 48

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HOD 3/8/20

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PRINCIPAL 3/8/20



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, ISO 9001:2008 Certified Institution
Kinnathurkadavu, Coimbatore - 642 109.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2013

B.E. ECE

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS6151	Technical English – I
2.		MA6151	Mathematics – I
3.		PH6151	Engineering Physics – I
4.		CY6151	Engineering Chemistry – I
5.		GE6151	Computer Programming
6.		GE6152	Engineering Graphics
7.		GE6163	Physics and Chemistry Laboratory - I
8.		GE6161	Computer Practices Laboratory
9.		GE6162	Engineering Practices Laboratory
10.	SEMESTER 2	HS6251	Technical English – II
11.		MA6251	Mathematics – II
12.		PH6251	Engineering Physics – II
13.		CY6251	Engineering Chemistry – II
14.		EC6201	Electronic Devices
15.		EE6201	Circuit Theory
16.		GE6262	Physics and Chemistry Laboratory - II
17.		EC6211	Circuits and Devices Laboratory
18.	SEMESTER 3	MA6351	Transforms and Partial Differential Equations
19.		EE6352	Electrical Engineering and Instrumentation
20.		EC6301	Object Oriented Programming and Data
21.		EC6302	Digital Electronics
22.		EC6303	Signals and Systems
23.		EC6304	Electronic Circuits- I

24.		EC6311	Analog and Digital Circuits Laboratory
25.		EC6312	OOPS and Data Structures Laboratory
26.	SEMESTER 4	MA6451	Probability and Random Processes
27.		EC6401	Electronic Circuits II
28.		EC6402	Communication Theory
29.		EC6403	Electromagnetic Fields
30.		EC6404	Linear Integrated Circuits
31.		EC6405	Control System Engineering
32.		EC6411	Circuit and Simulation Integrated Laboratory
33.		EC6412	Linear Integrated Circuit Laboratory
34.		EE6461	Electrical Engineering and Control System
35.	SEMESTER 5	EC6501	Digital Communication
36.		EC6502	Principles of Digital Signal Processing
37.		EC6503	Transmission Lines and Wave Guides
38.		GE6351	Environmental Science and Engineering
39.		EC6504	Microprocessor and Microcontroller
40.		EC6511	Digital Signal Processing Laboratory
41.		EC6512	Communication System Laboratory
42.		EC6513	Microprocessor and Microcontroller Laboratory
43.	SEMESTER 6	MG6851	Principles of Management
44.		CS6303	Computer Architecture
45.		CS6551	Computer Networks
46.		EC6601	VLSI Design
47.		EC6602	Antenna and Wave propagation
48.		EC6611	Computer Networks Laboratory
49.		EC6612	VLSI Design Laboratory
50.		GE6674	Communication and Soft Skills – Laboratory Based
51.	SEMESTER 7	EC6701	RF and Microwave Engineering
52.		EC6702	Optical Communication and Networks
53.		EC6703	Embedded and Real Time Systems
54.		EC6711	Embedded Laboratory
55.		EC6712	Optical and Microwave Laboratory
56.	SEMESTER 8	EC6801	Wireless Communication

57.		EC6802	Wireless Networks
58.		EC6811	Project Work

Total courses : 65

Total number of courses included : 58

HoD
HoD 3/8/20

PRINCIPAL
3/8/20

DEPARTMENT OF MECHANICAL ENGINEERING

**LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP**

REGULATION 2017

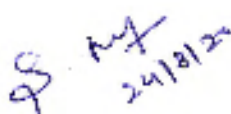
B.E. MECH

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1	SEMESTER 1	MA8151	Engineering Mathematics - I
2		PH8151	Engineering Physics
3		GE8152	Engineering Graphics
4		BS8151	Physics and Chemistry Laboratory
5		MA8251	Engineering Mathematics - II
6	SEMESTER 2	PH8251	Materials Science
7		BE8253	Basic Electrical, Electronics and Instrumentation Engineering
8		GE8291	Environmental Science and Engineering
9		GE8292	Engineering Mechanics
10		GE8261	Engineering Practices Laboratory
11		BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory
12		ME8391	Engineering Thermodynamics
13	SEMESTER 3	CE8394	Fluid Mechanics and Machinery
14		ME8351	Manufacturing Technology - I
15		EE8353	Electrical Drives and Controls
16		ME8361	Manufacturing Technology Laboratory - I
17		ME8381	Computer Aided Machine Drawing
18		EE8361	Electrical Engineering Laboratory
19		HS8381	Interpersonal Skills / Listening & Speaking
20	SEMESTER 4	ME8492	Kinematics of Machinery
21		ME8451	Manufacturing Technology - II
22		ME8491	Engineering Metallurgy
23		CE8395	Strength of Materials for Mechanical Engineers
24		ME8493	Thermal Engineering- I
25		ME8482	Manufacturing Technology Laboratory - II
26		CE8381	Strength of Materials and Fluid Mechanics and

			Machinery Laboratory
27	SEMESTER 5	ME8595	Thermal Engineering- II
28		ME8593	Design of Machine Elements
29		ME8501	Metrology and Measurements
30		ME8594	Dynamics of Machines
31		VE8511	Kinematics and Dynamics Laboratory
32		ME8512	Thermal Engineering Laboratory
33		ME8513	Metrology and Measurements Laboratory
34	SEMESTER 6	ME8651	Design of Transmission Systems
35		ME8691	Computer Aided Design and Manufacturing
36		VE8693	Heat and Mass Transfer
37		ME8692	Finite Element Analysis
38		ME8694	Hydraulics and Pneumatics
39		ME8691	Automobile Engineering
40		PR8592	Welding Technology
41		ME8681	CAD / CAM Laboratory
42		ME8682	Design and Fabrication Project
43		HS8581	Professional Communication

Total courses : 52

Total number of courses included : 43


 HoD
 24/8/20


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 24/8/20



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Ward No. 45, P. O. Perambalur, District: Perambalur, Tamil Nadu - 621 001.
Kilathirukudavu, Coimbatore - 642 109.

DEPARTMENT OF MECHANICAL ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2013

B.E. MECH

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	MA6151	Mathematics – I
2.		PH6151	Engineering Physics – I
3.		CY6151	Engineering Chemistry – I
4.		GE6152	Engineering Graphics
5.		GE6161	Computer Practices Laboratory
6.		GE6162	Engineering Practices Laboratory
7.		GE6163	Physics and Chemistry Laboratory - I
8.	SEMESTER 2	MA6251	Mathematics – II
9.		PH6251	Engineering Physics – II
10.		CY6251	Engineering Chemistry – II
11.		GE6252	Basic Electrical and Electronics Engineering
12.		GE6253	Engineering Mechanics
13.		GE6261	Computer Aided Drafting and Modeling Laboratory
14.		GE6262	Physics and Chemistry Laboratory - II
15.	SEMESTER 3	MA6351	Transforms and Partial Differential Equations
16.		CE6306	Strength of Materials
17.		ME6301	Engineering Thermodynamics
18.		ME6302	Manufacturing Technology - I
19.		ME6311	Manufacturing Technology Laboratory - I
20.	SEMESTER 4	ME6402	Manufacturing Technology– II
21.		ME6403	Engineering Materials and Metallurgy
22.		GE6361	Environmental Science and Engineering
23.		ME6404	Thermal Engineering
24.		ME6411	Manufacturing Technology Laboratory–II

25.	SEMESTER 5	ME6412	Thermal Engineering Laboratory - I
26.		CE6315	Strength of Materials Laboratory
27.		ME6501	Computer Aided Design
28.		ME6502	Heat and Mass Transfer
29.		ME6503	Design of Machine Elements
30.		ME6504	Metrology and Measurements
31.		ME6505	Dynamics of Machines
32.		GE6075	Professional Ethics in Engineering
33.		ME6511	Dynamics Laboratory
34.		ME6512	Thermal Engineering Laboratory-II
35.	SEMESTER 6	ME6513	Metrology and Measurements Laboratory
36.		ME6601	Design of Transmission Systems
37.		MG6851	Principles of Management
38.		ME6602	Automobile Engineering
39.		ME6603	Finite Element Analysis
40.		ME6604	Gas Dynamics and Jet Propulsion
41.		ME6604	Unconventional Machining Processes
42.		ME6611	C.A.D. / C.A.M. Laboratory
43.		ME6612	Design and Fabrication Project
44.		GE6674	Communication and Soft Skills- Laboratory Based
45.	SEMESTER 7	VE6701	Power Plant Engineering
46.		ME6703	Computer Integrated Manufacturing Systems
47.		GE6757	Total Quality Management
48.		ME6812	Maintenance Engineering
49.		ME6711	Simulation and Analysis Laboratory
50.		MG6071	Entrepreneurship Development
51.		ME6016	Advanced I.C. Engines
52.		ME6811	Project Work

Total courses

: 66

Total number of courses included

: 52

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AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Kinnathukadavu, Coimbatore - 642 109.

DEPARTMENT OF MECHATRONICS ENGINEERING
LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP

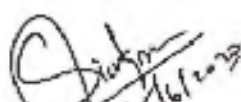
REGULATION 2017 B.E. MECHT

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS8151	Communicative English
2.		GE8151	Problem Solving and Python Programming
3.		GE8152	Engineering Graphics
4.		GE8161	Problem Solving and Python Programming Laboratory
5.		BS8161	Physics and Chemistry Laboratory
6.	SEMESTER 2	HS8251	Technical English
7.		PH8251	Materials Science
8.		BE8253	Basic Electrical, Electronics and Instrumentation Engineering
9.		GE8292	Engineering Mechanics
10.		GE8261	Engineering Practices Laboratory
11.		BE8261	Basic Electrical, Electronics and Instrumentation Engineering Laboratory
12.	SEMESTER 3	CE8395	Strength of Materials for Mechanical Engineers
13.		CE8394	Fluid Mechanics and Machinery
14.		MT8301	Electrical Machines and Drives
15.		MT8302	Analog Devices and Circuits
16.		CE8381	Strength of Materials and Fluid Mechanics and Machinery Lab
17.		MT8311	Electrical Machines and Drives Lab
18.		HS8302	Interpersonal Skills / Listening & Speaking
19.	SEMESTER 4	ME8492	Kinematics of Machinery
20.		MT8401	Thermodynamics and Heat Transfer
21.		MT8491	Microprocessors and Microcontrollers
22.		ME8392	Manufacturing Technology
23.		MT8411	Microprocessor and Microcontrollers Laboratory
24.		ME8461	Manufacturing Technology Laboratory
25.		ME8381	Computer Aided Machine Drawing
26.		HS8461	Advanced Reading and Writing
27.	SEMESTER 5	EE8552	Power Electronics
28.		MT8591	Sensors and Instrumentation
29.		ME8594	Dynamics of Machines
30.		EC8391	Control Systems Engineering
31.		MT8511	Power Electronics Laboratory
32.		MT8512	Sensors and Instrumentation Laboratory

33.		ME8481	Dynamics Laboratory
34.		HS8581	Professional Communication
35.	SEMESTER 6	ME8591	Applied Hydraulics and Pneumatics
36.		MT8601	Design of Mechatronics System
37.		ME8593	Design of Machine Elements
38.		MT8602	Industrial Automation
39.		MT8611	Applied Hydraulics and Pneumatics Laboratory
40.		MT8612	Industrial Automation Laboratory
41.		ME8682	Design and Fabrication Project

Total courses : 50

Total number of courses included : 41


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COLLEGE OF ENGINEERING AND TECHNOLOGY

Kinethukadavu, Coimbatore - 642 109.

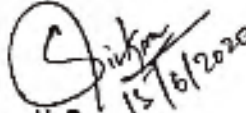
DEPARTMENT OF MECHATRONICS ENGINEERING
LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP
REGULATION 2013 B.E. MECHT

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	HS6151	Technical English – I
2.		GE6151	Computer Programming
3.		GE6152	Engineering Graphics
4.		GE6161	Computer Practices Laboratory
5.		GE6162	Engineering Practices Laboratory
6.		GE6163	Physics and Chemistry Laboratory - I
7.	SEMESTER 2	HS6251	Technical English – II
8.		GE6252	Basic Electrical and Electronics Engineering
9.		GE6253	Engineering Mechanics
10.		GE6261	Computer Aided Drafting and Modeling Laboratory
11.		GE6262	Physics and Chemistry Laboratory - II
12.	SEMESTER 3	CE6306	Strength of Materials for Mechanical Engineers
13.		ME6401	Kinematics of Machinery
14.		CE6451	Fluid Mechanics and Machinery
15.		EC6302	Digital Electronics
16.		EE6358	Electrical Machines and Drives
17.		MT6311	Computer Aided Machine Drawing Laboratory
18.		CE6461	Fluid Mechanics and Machinery Laboratory
19.		EE6362	Electrical Machines and Drives Laboratory
20.	SEMESTER 4	ME 6505	Dynamics of Machines
21.		EC 6405	Control System Engineering
22.		ME 6352	Manufacturing Technology
23.		ME 6504	Metrology and Measurements
24.		MT6401	Microprocessor and Applications
25.		MT 6411	Microprocessor Laboratory
26.		ME 6465	Manufacturing Technology Laboratory
27.		ME 6511	Dynamics Laboratory
28.	SEMESTER 5	ME6503	Design of Machine Elements
29.		EE6503	Power Electronics
30.		MT6501	Sensors and Signal Processing
31.		MF6505	CNC Machining Technology

32.		MT6502	Thermodynamics Principles and Applications
33.		MT6511	Power Electronics Laboratory
34.		MT6512	Sensors and Signal Processing Laboratory
35.		MT6513	CNC Laboratory
36.	SEMESTER 6	MT6601	Micro Controller and PLC
37.		MT6602	Applied Hydraulics and Pneumatics
38.		MT6603	Design of Mechatronics System
39.		MT6604	Object Oriented Programming in C++
40.		GE6757	Total Quality Management
41.		MT6611	Micro Controller and Plc Laboratory
42.		MT6612	Object Oriented Programming in C++ Laboratory
43.		MT6613	Applied Hydraulics and Pneumatics Laboratory
44.	SEMESTER 7	MT6701	Medical Mechatronics
45.		MT6702	Modeling and Simulation
46.		MT6703	Robotics and Machine Vision System
47.		ME6602	Automobile Engineering
48.		MT6002	Diagnostic Techniques
49.		EE6007	Micro Electro Mechanical Systems
50.		MT6711	Computer Aided Design and Computer Aided Manufacturing Laboratory
51.		MT6712	Robotics Laboratory
52.		MT6713	Design and Fabrication Project
53.	SEMESTER 8	MT6801	Automotive Electronics
54.		MT6811	Project Work

Total courses : 66

Total number of courses included : 54


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COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi and affiliated to Anna University, Chennai. Accredited by ISO 9001:2015 Certified Institution
Kinathukadavu, Coimbatore - 642 309.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2017

M.E CSE

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	CP5151	Advanced Data Structures and Algorithms
2.		CP5152	Advanced Computer Architecture
3.		CP5153	Operating System Internals
4.		CP5154	Advanced Software Engineering
5.		CP5191	Machine Learning Techniques
6.		CP5161	Data Structures Laboratory
7.	SEMESTER 2	CP5201	Network Design and Technologies
8.		CP5291	Security Practices
9.		CP5292	Internet of Things
10.		CP5293	Big Data Analytics
11.		CP5001	Principles of Programming Languages
12.		CP5072	Software Architectures and Design
13.		CP5281	Term Paper Writing and Seminar
14.		CP5261	Data Analytics Laboratory
15.	SEMESTER 3	CP5003	Performance Analysis of Computer Systems
16.		CP5007	Bio-Inspired Computing
17.		CP5097	Mobile Application Development
18.		CP5311	Project Work Phase - I
19.	SEMESTER 4	CP5411	Project Work Phase - II

Total Subjects : 20

Total Number of Subjects Included : 19

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2013

M.E CSE

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	CP7101	Design and Management of Computer Networks
2.		CP7102	Advanced Data Structures and Algorithms
3.		CP7103	Multicore Architectures
4.		CP7004	Image Processing and Analysis
5.		CP7007	Software Requirements Engineering
6.		CP7111	Advanced Data Structures Laboratory
7.		CP7112	Case Study- Network Design (Team Work)
8.	SEMESTER 2	CP7201	Theoretical Foundations of Computer Science
9.		CP7202	Advanced Databases
10.		CP7203	Principles of Programming Languages
11.		CP7204	Advanced Operating Systems
12.		CP7014	Software Architectures
13.		IF7202	Cloud Computing
14.		CP7211	Advanced Databases Laboratory
15.		CP7212	Case Study- Operating Systems Design (Team Work)
16.	SEMESTER 3	CP7301	Software Process and Project Management
17.		CP7022	Software Design
18.		CP7026	Software Quality Assurance
19.		CP7029	Information Storage Management
20.		CP7311	Project Work (Phase I)
21.	SEMESTER 4	CP7411	Project Work (Phase II)

Total Subjects : 22

Total Number of Subjects Included : 21

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DEPARTMENT OF CIVIL ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING
THROUGH PROJECT WORK/FIELD/INTERNSHIP

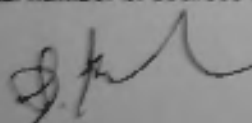
REGULATION 2017

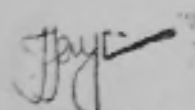
M.E STRUCTURAL ENGINEERING

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	ST5101	Advanced Concrete Structures
2.		ST5102	Dynamics of Structures
3.		ST5001	Maintenance, and Rehabilitation of Structures
4.		ST5002	Prefabricated structures
5.	SEMESTER 2	ST 5201	Advanced Steel Structures
6.		ST 5202	Stability of Structures
7.		ST 5203	Experimental Techniques
8.		ST 5204	Finite Element Analysis of Structures
9.		ST5008	Industrial structures
10.		ST5009	Prestressed concrete
11.		ST5211	Advanced Structural Engineering Laboratory
12.		ST5212	Practical Training I
13.	SEMESTER 3	ST5301	Earthquake analysis and design of structure
14.		ST5014	Design of steel concrete composite structures
15.		ST5015	Design of bridge structures
16.		ST5311	Practical Training II
17.		ST5313	Project Work (Phase I)
18.	SEMESTER 4	ST5411	Practical Training III
19.		ST5412	Project Work (Phase II)

Total courses : 22

Total number of courses included : 19


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PRINCIPAL

Dr. J. JAYA, M.Tech., Ph.D
PRINCIPAL

Akshaya College of Engineering And Technology
Kinathukadavu, Coimbatore - 642 109



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai (Autonomous Institute)
Kinathukadavu, Coimbatore - 642 109.

DEPARTMENT OF CIVIL ENGINEERING

LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING THROUGH PROJECT WORK/FIELD/INTERNSHIP

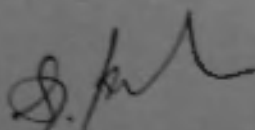
REGULATION 2013

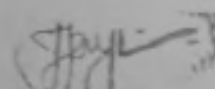
M.E STRUCTURAL ENGINEERING

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1.	SEMESTER 1	ST7101	Concrete Structures
2.		ST7102	Structural Dynamics
3.		ST7103	Theory of Elasticity and Plasticity
4.		ST7002	Maintenance and Rehabilitation of Structures
5.		CN7001	Advanced Concrete Technology
6.	SEMESTER 2	ST7201	Finite Element Analysis
7.		ST7202	Experimental Techniques and Instrumentation
8.		ST7203	Steel Structures
9.		ST7204	Earthquake Analysis and Design of Structures
10.		ST7006	Design of Bridges
11.		ST7010	Design of Sub Structures
12.	SEMESTER 3	ST7211	Advanced Structural Engineering Laboratory
13.		ST7013	Design of Steel Concrete Composite Structures
14.		ST7014	Industrial Structures
15.	SEMESTER 4	ST7016	Prefabricated Structures
16.		ST7411	Project Work (Phase II)

Total courses : 19

Total number of courses included : 16


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PRINCIPAL

Dr. J. JAYA, M.Tech., Ph.D
PRINCIPAL
Akshaya College of Engineering And Technology
Kinathukadavu, Coimbatore - 642 109



AKSHAYA

COLLEGE OF ENGINEERING AND TECHNOLOGY
KINATHUKADAVU, COIMBATORE - 642 109.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING THROUGH
PROJECT WORK/FIELD/INTERNSHIP

REGULATION 2017

MLE VLSI DESIGN

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1	SEMESTER I	AP5151	Advanced Digital System Design
2		VL5101	CMOS Digital VLSI Design
3		VL5191	DSP Integrated Circuits
4		VL5102	CAD for VLSI Circuits
5		VL5103	Analog IC Design
6		VL5111	VLSI Design Laboratory I
7	SEMESTER II	VL5201	Testing of VLSI Circuits
8		VL5291	VLSI Signal Processing
9		VL5202	Low Power VLSI Design
10		VL5001	Device Modeling - I
11		DS5191	DSP Architectures and Programming
12		VL5007	Advanced Microprocessors and Architectures
13	SEMESTER III	VL5211	VLSI Design Laboratory II
14		CP5281	Term Paper Writing and Seminar
15		VL5301	Analog to Digital Interfaces
16		AP5292	Digital Image Processing
17	SEMESTER IV	VL5012	Selected Topics in IC Design
18		VL5311	Project Work Phase-I
19	SEMESTER IV	VL5411	Project Work Phase-II

TOTAL SUBJECTS : 20

TOTAL NUMBER OF SUBJECTS INCLUDED : 19

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**LIST OF COURSES THAT INCLUDE EXPERIMENTAL LEARNING THROUGH
 PROJECT WORK/FIELD/INTERNSHIP**

REGULATION 2013

M.E VLSI DESIGN

S.NO	SEMESTER	COURSE CODE	COURSE TITLE
1	SEMESTER I	VL7101	VLSI Signal Processing
2		VL7102	VLSI Design Techniques
3		VL7103	Solid State Device Modelling and Simulation
4		AP7008	DSP Integrated Circuits
5		VL7004	Asynchronous System Design
6		VL7111	VLSI Design Laboratory I
7	SEMESTER II	AP7201	Analysis and Design of Analog Integrated Circuits
8		VL7201	CAD for VLSI Circuits
9		VL7202	Low Power VLSI Design
10		VL7006	Analog VLSI Design
11		CL7001	Real Time Embedded Systems.
12		AP7016	System on Chip Design
13	SEMESTER III	VL7211	VLSI Design Laboratory II
14		VL7301	Testing of VLSI Circuits
15		VL7011	Signal Integrity for High Speed Devices
16		VL7014	IP Based VLSI Design
17	SEMESTER IV	VL7311	Project Work Phase-I
18		VL7411	Project Work Phase-II

TOTAL SUBJECTS : 19

TOTAL NUMBER OF SUBJECTS INCLUDED : 18

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