



KUMARAGURU
college of technology
character is life

Department of Aeronautical Engineering

AY: 2016-17

Date: 15.07.2017

Action taken report -Student Feedback

S.No	Analysis	Action taken report
1.	Both theory and practical courses should be conducted for 'Aircraft Design'.	'U17AEI7201 Aircraft Design' course contains both theory and practical contents
2.	Vibrations and Aeroelasticity should be offered as a core course	Vibrations and Aeroelasticity course is introduced as core

Prepared By,

BoS Coordinator

Approved By,

BoS Chairman

Proof for Action Taken: 1 ‘U17AEI7201 Aircraft Design’ course contains both theory and practical contents

Semester VII										Pre-requisite
S.No	Course code	Course Title	Course Mode	CT	L	T	P	J	C	
1	U17AEI7201	Aircraft Design	Embedded-Theory & Lab	PC	2	0	2	0	3	U17AET6001
2	U17AEI7202	Aircraft Maintenance Practices	Embedded-Theory & Lab	PC	2	0	2	0	3	U17AEI5204
3	U17AEI7203	Avionics	Embedded-Theory & Lab	PC	2	0	2	0	3	U17EEI3202
4	U17AET7004	Aviation Logistics and Supply Chain Management	Theory	PC	3	0	0	0	3	-----
5	U17AEE00--	Professional Elective II	Theory	PE	3	0	0	0	3	-----
6	U17AEE00--	Professional Elective III	Theory	PE	3	0	0	0	3	-----
7	U17AEE00--	Professional Elective IV	Theory	PE	3	0	0	0	3	-----
8	U17AEP7705	Project Work – Phase I	Project	PW	0	0	0	6	3	-----
Total Credits									24	
Total Contact Hours/week									30	

Proof for Action Taken: 2 Vibrations and Aeroelasticity course is introduced as core

Semester VI										Pre-requisite
S.No	Course code	Course Title	Course Mode	CT	L	T	P	J	C	
1	U17AET6001	Flight Dynamics	Theory	PC	3	0	0	0	3	U17AEI4201
2	U17AET6002	Finite Element Method	Theory	PC	3	0	0	0	3	U17AET4003
3	U17AET6003	Vibrations and Aeroelasticity	Theory	PC	3	0	0	0	3	U17AEI5202
4	U17AET6104	Rocket Propulsion	Theory	PC	2	1	0	0	3	U17AEI5205
5	OE II	Open Elective II	Theory	OE	3	0	0	0	3	-----
6	U17AEE00--	Professional Elective I	Theory	PE	3	0	0	0	3	-----
7	U17AEP6505	Design and Simulation Laboratory	Lab	PC	0	0	2	0	1	U17AET5003
8	U17INI6600	Engineering Clinic 4	Embedded-Practical & Project	ES	0	0	4	2	3	-----
Total Credits									22	
Total Contact Hours/week									26	



KUMARAGURU
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Department of Automobile Engineering

AY: 2016-17

Date: 15.07.2017

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1	Domain specific One credit courses may be offered.	Diversified One credit courses were introduced.
2	Industry visits should be arranged frequently.	Arranged industrial visits.

Prepared by,

A handwritten signature in black ink, appearing to be 'Jhu' or similar, written over a horizontal line.

BoS Coordinator

Approved by,

A handwritten signature in black ink, appearing to be 'S. S. S.' or similar, written over a horizontal line.

BoS Chairman

S. N o	Name of the Departme nt	Program / batch (year)	No. of studen ts	Name and address of the Industry	Academ ic Year	Date of visit (from - to)	Names of accompanying faculty
1	Auto	B.E.Automobile Engg / 2016 & 2015 Batch	12	Industrial Visit to ARAI and TATA Motor	2017-2018	06.10.2017 to 07.10.2017	B.Arun
2		IV year (2015 Batch)	37	Bull Machines Pvt, Ltd. offroad vehicle mfrs Sulur, Coimbatore	2018-2019	11.08.2018	Mr.G.Rajkumar, Mr.C.Naveenkumar & Mr.R.Kishore
3			36			25.08.2018	
4		III year (2016 Batch)	35	Ampere Vehicles Pvt, Ltd. Electric vehicle mfrs Sulur, Coimbatore		25.08.2018	Dr.G.Thenmozhi, Mr.S.Sivakumar & Mr.A.Prabhakaran
5		II year (2017 Batch)	36	Super Sales India Pvt. Ltd. Gear mfrs unit of LMW Thekkampatty (PO), Coimbatore - 641 113		11.08.2018	Dr.S.Mohan Kumar, Mr.T.Karthik & Mr.J.D.Andrew
6			36			25.08.2018	



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Department of Electrical and Electronics Engineering

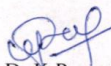
AY: 2016-17

date: 14-07-2017

Action taken report -Students Feedback

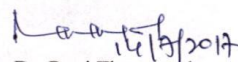
S.No	Analysis	Action taken report
1	VLSI course need to be included in the curriculum.	In R2015 regulation VLSI Design course Included as Elective
2	Power system lab can be enhanced with experiments based on recent trends.	In R2015 regulation renewable energy based experiments are included

PreparedBy,


Dr. K. Premalatha

BoS Coordinator

Approved By,


Dr. Rani Thottungal

BoS Chairman

Proof for Action Taken : 1 - In R2015 regulation VLSI Design course Included as Elective

18.	U15EEPE18	Special Electrical Machines	PE	3	3	0	0	3
19.	U15EEPE19	Design of Energy Efficient Electrical Machines	PE	3	3	0	0	3
20.	U15EEPE20	Automotive Electronics	PE	3	3	0	0	3
<u>Applied Electronics</u>								
21.	U15EEPE21	Embedded System Design	PE	3	3	0	0	3
22.	U15EEPE22	Digital Signal Processing	PE	3	3	0	0	3
23.	U15EEPE23	Microcontroller Based System Design	PE	3	3	0	0	3
24.	U15EEPE24	Low Power VLSI Design	PE	3	3	0	0	3
25.	U15EEPE25	VLSI Design	PE	3	3	0	0	3
<u>Emerging Technologies</u>								
26.	U15EEPE26	FACTS	PE	3	3	0	0	3
27.	U15EEPE27	Smart Grid Engineering	PE	3	3	0	0	3
28.	U15EEPE28	Illumination Engineering	PE	3	3	0	0	3
29.	U15EEPE29	HVDC	PE	3	3	0	0	3
30.	U15EEPE30	Energy Auditing and Management	PE	3	3	0	0	3

Proof for Action Taken : 2 – In power and energy lab renewable energy based experiments are included

U15EEP701 POWER AND ENERGY LABORATORY **L T P C**
0 0 2 1

COURSE OUTCOMES

After successful completion of this course, the students will be able to

CO1	Simulate and analyze the load flow of power system network	K2
CO2	Simulate and analyze the faults of power system network	K2
CO3	Simulate and analyze the stability of power system network	K2
CO4	Simulate the performance of wind mill and PV module	K2
CO5	Calculate the electrical Tariff structure	K2

PRE-REQUISITE

Nil

CO/PO Mapping (S/M/W indicates strength of correlation) S-Strong, M-Medium, W-Weak														
COs	Programme Outcomes(POs)												PSOs	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	M	M			S									
CO2	M	M			S									
CO3	M	M			S									
CO4		M	W		S									
CO5	S				S									
CO6														

COURSE ASSESSMENT METHODS

Direct	Indirect
1. Laboratory Exercise 2. Model Exam 3. End Semester Exam	1. Course Exit Survey

LIST OF EXPERIMENTS

1. Formation of Bus Admittance Matrices
2. Formation of Bus Impedance Matrices and Solution of Networks
3. Load Flow Analysis: Solution of Load Flow and Related Problems Using Gauss-Seidel Method
4. Load Flow Analysis: Solution of Load Flow and Related Problems Using Newton-Raphson method
5. Load Flow Analysis: Solution of Load Flow and Related Problems Using Fast-Decoupled Method
6. Load Flow, Fault analysis and transient stability analysis of 5 bus system using ETAP

7. Simulation of Swing Equation using Euler's Method.
8. Tariff calculations.
9. Development of Simulink model for a PV module.
10. Performance analysis of Wind mill using Simulink.
11. Stability analysis of hybrid power system network using ETAP.

Experiments beyond the syllabus should be conducted

Practical:24 Hrs

Total: 24 Hrs



KUMARAGURU
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CHENNAI - 600 076

DEPARTMENT OF BIOTECHNOLOGY

Action Taken Report - "Students Feedback"
Academic Year 2016-2017

Date: 15-Jul 2017

S.No	Suggestions	Action Taken
1.	More industrial visits expected	Industrial visit is arranged every semester
2.	More one credit course to be offered	Three One -credit course offered during 2016-17 Academic year

Prepared by
BOS Coordinator

Approved by
Chairman BOS

**KUMARAGURU COLLEGE OF TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY**

Industrial Visit to Senthil Sugars Ltd – Soya Division



Industrial Visit to Senthil Papain Ltd, Etimadai



P18BTT0205	BIOBUSINESS MANAGEMENT	L	T	P	J	C
		1	0	0	0	1

Course Objectives:

- To develop the science, business and entrepreneurial knowledge and skills required for a successful career in the pharmaceutical or biotechnology industries

Course Outcomes (COs):

After successful completion of the course, the students should be able to

- CO1:** Introduce the concepts of management
CO2: Able to formulate business thoughts and decision making
CO3: Prioritize business plans
CO4: Outline the concepts of entrepreneurship
CO5: Identify and manage project and perform feasibility studies
CO6: Create an awareness on the various funding agencies

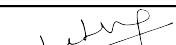
Course Content	20 hour
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- | | |
|---|---------------|
| 1. Management | 4 hour |
| Introduction - nature and characteristics, functional areas of management - Development of management thoughts, decision making - hierarchy of plans. | |
| 2. Entrepreneurship | 4 hour |
| Concepts and functions of an entrepreneur - stages in entrepreneurial process - entrepreneurship in India. | |
| 3. Project Management and Proposals | 4 hour |
| Project Identification - Identification of business opportunities, Feasibility studies – Market, technical, financial and social. Funding agencies and current schemes. | |
| 4. Case Study -I | 2 hour |
| 5. Case Study -II | 2 hour |

Theory	Tutorial	Practical	Project	Total
16 hour	0 hour	0 hour	0 hour	16 hour

References:

1. Tripathi, P. C. (2008). Principles of management. Tata McGraw-Hill Education.
2. Jannette, D. A., Allen, E. M., Burnard, M. F., Crenshaw, J. L., DeSaele, C. R., Hill, M. E., ... & Zaun, M. S. (2000). U.S. Patent No. 6,036,345. Washington, DC: U.S. Patent and Trademark Office.
3. Lussier, R. N. (2006). Management Fundamentals: Concepts, application, skill development (3. bs.). Canada: Thomson.


 Signature of BOS Chairman, BT



KUMARAGURU
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Department of Textile Technology

AY: 2016-17

Date: 15.07.2107

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1.	One credit course can be introduced	One credit courses are planned and offered
2.	Latest books are to be added in references in all courses	Updated in the syllabus

Approved by

Dr.Bharathi Dhurai

BoS Chairperson



Department of Textile Technology

AY: 2016-17

Date: 15.07.2107

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1.	One credit course can be introduced	One credit courses are planned and offered
2.	Latest books are to be added in references in all courses	Updated in the syllabus

Proof

One credit courses are planned and offered

One Credit Course		
S. No.	Course Code	Course Title
1.	U15TXIN01	Work Study in Sewing Line
2.	U15TXIN02	Retail Management
3.	U15TXIN03	Fancy Yarns
4.	U15TXIN04	Erection and Commissioning of Textile Machines
5.	U15TXIN05	Workload and Work Assignments
6.	U15TXIN06	ERP in Textiles
7.	U15TXIN07	Export Documentation
8.	U15TXIN08	Globalisation of Indian Man Made Fiber Industry
9.	U15TXIN09	Techno Economic Projection of Current Textile Industry - Synthetic Fiber Spinning

10.	U15TXIN10	Present Scenario and Projected Market For Man Made Fiber & Synthetic Spinning Industry
11.	U15TXIN11	Emerging Trends In Textile Industry - Man Made Fibers
12.	U15TXIN12	Product Innovation Through Value Addition - Using Man Made Fibers.
13.	U15TXIN13	Yarn Winding
14.	U15TXIN14	Rsls and other eco regulations governing use of chemicals in Textiles
15.	U15TXIN15	Colour management
16.	U15TXIN16	Shuttleless weaving
17.	U15TXIN17	Warp knitting
18.	U15TXIN18	Merchandising and Quality Control
19.	U15TXIN19	Home Textiles
20.	U15TXIN20	Sports textiles
21.	U15TXIN21	Entrepreneurship in medical textiles

Latest books are to be added in references in all courses

Updated in the syllabus

U15TX7303

**Woven Fabric
Manufacturing Technology**

L	T	P	C
3	0	0	3

Course Outcomes

After successful completion of this course, the students should be able to

CO1: Discuss the concept and mechanism of winding process in woven fabric manufacturing

CO2: Explain the concept and mechanism of warping and sizing process in woven fabric manufacturing

CO3: Describe the functioning of weaving machine and its important motions

CO4: Select and control the process variables at loom

CO5: Calculate the speed and production rate of weaving machine

CO6: Create the new designs in woven fabric manufacturing

Pre-requisites :**1. U15TXT201 Textile Fibers**

CO/PO Mapping (S/M/W indicates strength of correlation)S-Strong, M-Medium, W-Weak														
COs	Programme Outcomes(POs)												PSO	
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
CO1	M												M	
CO2	S	S											S	
CO3	M	M	S										M	
CO4	S	M		S									S	
CO5	S	M											S	
CO6	S	S	S	M	M								S	

Course Assessment methods

Direct	Indirect
1. Internal test I 2. Internal test II 3. Assignment/ Seminar/ Tutorial 4. End Semester Examination	1. Course end survey

WINDING**9 Hours**

Objectives of winding, Geometry of cone winding. Classification of winders. Working principles of automatic winders-Electronics yarn clearer and splicers. Package defects, causes and remedies. Types and working principles of spindleless pirn winding machines. Pirn types and dimensions. Pirn bunching. Pirn winding defects causes and remedies. Production calculations of cone and pirn winders.

WARPING & SIZING**9 Hours**

Types of creels. Working principles of beam and sectional warpers. Warping beam defects causes and remedies. Objectives of sizing - Working principles of multi-cylinder and single end sizing machines. Size ingredients, Size preparation. Sizing faults, causes and remedies. Production calculation in warping and sizing.

WEAVING – INTRODUCTION**9 Hours**

Drawing-in and gaiting operations. Types of weaving motions - primary, secondary and auxiliary motions. Classification of looms. Loom timing diagram for different motions. Weaving accessories- Types and selection of heald wires, heald frames, reeds, shuttle, picker, Temples.

PRIMARY MOTIONS**9 Hours**

Shedding- Negative and positive tappet, Negative and positive dobby, single lift single cylinder jacquard and double lift single cylinder jacquard. Picking - Classification - Cone over pick, side lever under pick–swell checking devices. Beat-up- 4 bar linkage beat up mechanism. Speed and production calculations in power loom.

SECONDARY AND TERTIARY MOTIONS

9 Hours

Negative let-off and positive let-off, five and seven wheel take-up motions. Loose reed and fast reed mechanisms. Warp and weft stop motion. Weft feelers-different types. Pirn changing mechanism. 4 x 1 Drop box motions.

Theory: 45 Hours

Total: 45 Hours

CASE STUDY (any two)

1. Energy conservation in weaving industry
2. Collection of samples and photos of yarn fault, package fault and fabric fault and study their causes & remedies
3. Develop the fabric with small designs
4. Analyze the classimat fault report in winding machine
5. Occurrences of shuttle fly out and remedial measures

REFERENCES

1. Lord P.R. and Mohammed M.H., "Weaving – Conversion of Yarn to Fabric", Merrow Publication, 2001.
2. Adanur S., "Handbook of Weaving", Woodhead Publishing Limited, 2001.
3. Prabir Kumar Banerjee., "Principles of Fabric Formation", CRC Press, 2014.
4. Sriramulu P.K., Ajgaonkar D.B. & Talukdar M.K., "Weaving Machines: Mechanisms, Management", Mahajan Publishers, Ahmedabad, 1998.
5. "Woven fabric production – I", Quality CBT & course material from NCUTE, 2002.
6. "Woven fabric production – II", Quality CBT & course material from NCUTE, 2002.



KUMARAGURU

college of technology

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Department of Information Technology

AY: 2016-17

Date:15.07.2017

Action taken report -Student Feedback

S.No	Analysis	Action taken report
1.	Students suggested to provide opportunities for industry projects and internships.	Provided the opportunities for internship in curriculum.

Prepared by

BoS Coordinator

Approved by

BoS Chairman

Proof for Action Taken 2:

Professional Electives (PE)

Course Code	Course Title	Category	Contact Hours	Hrs/Week & Credits				Pre-requisites
				L	T	P	C	
U15ITE001	Theory of Computation	PE	3	3	0	0	3	MAT403
U15ITE002	TCP/ IP Socket Programming	PE	3	3	0	0	3	ITT402
U15ITE003	Distributed Systems	PE	3	3	0	0	3	ITT402
U15ITE004	Principles of Compiler Design	PE	3	3	0	0	3	-
U15ITE005	User Interface Design	PE	3	3	0	0	3	-
U15ITE006	Cloud Computing	PE	3	3	0	0	3	ITT402
U15ITE007	Ad Hoc & Sensor Networks	PE	3	3	0	0	3	ITT402
U15ITE008	High Speed Networks	PE	3	3	0	0	3	ITT402
U15ITE009	Computational Intelligence	PE	3	3	0	0	3	ITE024, MAT403
U15ITE010	Service Oriented Architecture	PE	3	3	0	0	3	ITT601
U15ITE011	Real Time Systems	PE	3	3	0	0	3	ITT404
U15ITE012	Information Coding Techniques	PE	3	3	0	0	3	-
U15ITE013	Software Architecture	PE	3	3	0	0	3	ITT501
U15ITE014	Digital Image Processing	PE	3	3	0	0	3	ECT511
U15MCE708	Mobile Robotics	PE	3	3	0	0	3	-
U15GST002	Total Quality Management	HS	3	3	0	0	3	-
U15GST003	Principles of Management	HS	3	3	0	0	3	-
U15GST004	Operation Research	BS	3	3	0	0	3	-
U15ITE015	C # and .NET	PE	3	3	0	0	3	ITT303
U15ITE016	Building Enterprise Applications	PE	3	3	0	0	3	ITT502
U15ITE017	Business Intelligence	PE	3	3	0	0	3	ITT604
U15ITE018	Information Retrieval	PE	3	3	0	0	3	ITT604
U15ITE019	Software Quality Assurance & Testing	PE	3	3	0	0	3	ITT501

U15ITE020	Software Project Management	PE	3	3	0	0	3	ITT501
U15ITE021	Management Information System	PE	3	3	0	0	3	-
U15ITE022	Information Security	PE	3	3	0	0	3	-
U15ITE023	Open Source Technologies	PE	3	3	0	0	3	-
U15ITE024	Artificial Intelligence	PE	3	3	0	0	3	MAT403
U15ITE025	Coding and Hacking	PE	6	0	0	6	3	-
U15ITE026	Front End Web Development	PE	6	2	0	4	4	-
U15ITE027	Introduction to Enterprise Resource Planning	PE	3	3	0	0	3	-
U15ITE028	Ethical Hacking	PE	3	3	0	0	3	-
U15ITE029	Embedded Platforms	PE	4	2	1	1	4	-
U15ITE030	Integrated Product Development	PE	4	1	1	2	3	-
U15ITE031	Cyber Security	PE	3	3	0	0	3	-
U15ITE032	Design Patterns	PE	3	3	0	0	3	ITT303
U15ITE033	Sensors, Actuators & Interfaces	PE	5	2	1	2	4	-
U15ITE034	Internship-I	EEC	2 weeks	0	0	2	1	-
U15ITE035	Internship-II	EEC	4 weeks	0	0	4	2	-
U15ITE036	Internship-III	EEC	6 weeks	0	0	6	3	-
U15ITE037	Problem Solving	PE	8	0	0	8	4	-
U15ITE038	Machine Learning	PE	3	3	0	0	3	-
U15ITE039	Block Chain Technology	PE	3	3	0	0	3	-



KUMARAGURU
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Department of Civil Engineering

AY: 2016-17

15.07.2017

Action taken report - Student Feedback

S.No	Analysis	Action taken report
1.	Courses given in elective groups may be rearranged.	It will be implemented in next Regulation by offering domain based elective (Structural, Environmental, etc)
2.	Construction of ILD for continuous beams must be offered with more timeline for theory/tutorial hours	Informed to give more practical problems for students in tutorial hours
3.	Courses related to mathematics need to include some applications related to Civil Engineering	Faculty handling the course is instructed to include in the course materials.
4.	Industrial Training duration can be increased to get more practical training.	Suggestion will be considered for implementation

Prepared by,

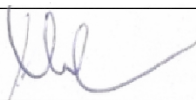
BoS Coordinator

Approved by,

BoS Chairman

Professional Electives									
S.No	Course code	Course Title	Course Mode	CT	L	T	P	J	C
Structural Engineering									
1	U17CEE0001	Concrete Technology	Theory	PE	3	0	0	0	3
2	U17CEE0002	Prefabricated Structures	Theory	PE	3	0	0	0	3
3	U17CEE0003	Design of Reinforced Concrete structures	Theory	PE	3	0	0	0	3
4	U17CEE0010	Prestressed Concrete structures	Theory	PE	3	0	0	0	3
5	U17CEE0011	Maintenance and Rehabilitation of Structures	Theory	PE	3	0	0	0	3
6	U17CEE0012	Earthquake Engineering	Theory	PE	3	0	0	0	3
Environmental & Water Resources Engineering									
1	U17CEE0004	Environmental Impact Assessment and Life Cycle Analysis	Theory	PE	3	0	0	0	3
2	U17CEE0005	Surface water Hydrology	Theory	PE	3	0	0	0	3
3	U17CEE0006	Air and Noise Pollution Control	Theory	PE	3	0	0	0	3
4	U17CEE0013	Industrial Wastewater Treatment	Theory	PE	3	0	0	0	3
5	U17CEE0014	Climate change and Sustainable Management	Theory	PE	3	0	0	0	3
6	U17CEE0015	Waste Management	Theory	PE	3	0	0	0	3
Construction Management & Transportation Engineering									
1	U17CEE0007	Glass Façade Engineering	Theory	PE	3	0	0	0	3
2	U17CEE0008	Intelligent Transportation Systems	Theory	PE	3	0	0	0	3
3	U17CEE0009	Sustainable Construction Methods	Theory	PE	3	0	0	0	3
4	U17CEE0016	Building information Management	Theory	PE	3	0	0	0	3
5	U17CEE0017	Mass Transit Management	Theory	PE	3	0	0	0	3
6	U17CEE0018	Railways Airport Dock and Harbor Engineering	Theory	PE	3	0	0	0	3

Open Electives (OFFERED TO STUDENTS OF OTHER DEPARTMENTS)									
S.No	Course code	Course Title	Course Mode	CT	L	T	P	J	C
1	U17CE00001	Climate Change Impact on Water Resources	Theory	OE	3	0	0	0	3
2	U17CE00002	Energy Conservation in Buildings	Theory	OE	3	0	0	0	3
3	U17CE00003	Traffic Engineering and Management	Theory	OE	3	0	0	0	3
4	U17CE00004	Pre-engineered Buildings	Theory	OE	3	0	0	0	3


 Signature of the Chairman
 BOS/Civil Engineering



KUMARAGURU
college of technology
character is life

Department of Computer Science and Engineering

AY: 2016-17

Date:15.07.2017

Action taken report -Student Feedback

S.No	Analysis	Action taken report
1.	Students requested for a brush up courses on recent technologies	As requested Value Added Courses like Cloud Computing, Application development, Internet of Things, and Machine Learning are conducted
2.	Students asked for a course on Ethical Hacking	One credit course on U14CSIN03 – Ethical Hacking was conducted

Prepared By

(Feedback/BoS Coordinator)

(Dr.D. Chandrakala)

Approved By

(Signature of Bos Chairman)

(Dr. J. Cynthia)

Professor & Head
Department of
Computer Science and Engineering
Kumaraguru College of Technology
COIMBATORE-641 096, INDIA

Proof for Action taken 1- Student Feedback!



**KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE –
641 049**

(An Autonomous Institution affiliated to Anna University, Chennai)

Department of Computer Science and Engineering

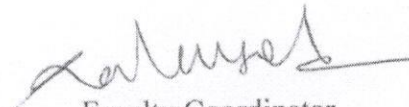
Date: 22.7.16, 20.8.16, 3.9.16, 17.9.16

Academic Year: 2016-2017

Cloud Computing

Course Content

- Introduction of Cloud Computing
- Architecture and Deployment
 - a. Evolution
 - b. Type of Cloud Platform
 - c. Type of Deployment Model
- Core Technologies
 - a. Virtualization
 - b. Parallel Programming
- Introduction to OpenStack and its Components
 - a. OpenStack Architecture
 - b. OpenStack Messaging and Queue
- OpenStack and Its Services
 - a. Addition of Identity Service
 - b. Addition of Image Service
 - c. Addition of Computer Services
 - d. Addition of Dashboard


Faculty Coordinator
(R. Kalaiselvi)

Proof for Action taken 1-



**KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE –
641 049**

(An Autonomous Institution affiliated to Anna University, Chennai)

Department of Computer Science and Engineering

Date: 22.7.16, 20.8.16, 3.9.16, 17.9.16

Academic Year: 2016-2017

Course on Machine Learning

Course Content

1. Basics of Python Programming
2. Analytics using Python
3. Machine Learning: Introduction
4. Supervised Vs Unsupervised Learning
5. Linear Regression, • Decision Trees, KNN
6. Multilayer Neural Network, Back propagation
7. Bayesian Networks, SVM
8. Clustering :K Means
9. Python API's for implementing Machine Learning Algorithms
10. Case Studies using Python

Faculty Coordinator

(D. Chandrakala)

Proof for Action taken 1



KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE – 641 049

(An Autonomous Institution affiliated to Anna University, Chennai)

Department of Computer Science and Engineering

Date: 22.7.16, 20.8.16, 3.9.16, 17.9.16

Academic Year: 2016-2017

Android Application development using app Dev 1.0

Course syllabus

1. Overview of app development
2. About Android
3. Android basics
4. Setting up development environment
5. UI basics
6. App demo
7. Road map of Android app development

Faculty Coordinator

G. Karanagari

Proof for Action taken I



KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE –
641 049

(An Autonomous Institution affiliated to Anna University, Chennai)

Department of Computer Science and Engineering

Date: 22.7.16, 20.8.16, 3.9.16, 17.9.16

Academic Year: 2016-2017

INTERNET OF THINGS

Course Outcome:

At the end of the programme, participants will be able to acquire knowledge in IoT from the ground up using Arduino, IoT and cloud.

- ✓ Understand the basic usage of the Arduino environment for creating your own embedded projects at low cost.
- ✓ Data acquisition from sensors
- ✓ Integrate mobile device with IOT
- ✓ Send sensor data to the Internet and store data to the Cloud.

Course Content

- Introduction to IoT
- Basics of Arduino Programming
- Hands-on on Arduino Programming
- Working with sensors and actuators
- Connecting Arduino with GSM module
- Connecting Arduino with Bluetooth module
- Integrating Arduino with cloud
- Demo of sample IoT applications

Faculty Coordinator

U14CSIN03 /U15CSIN01		ETHICAL HACKING				L	T	P	J	C
						2	0	0	0	1

Course Outcomes												
After successful completion of this course, the students should be able to												
CO1	Explain the basics of Ethical Hacking											
CO2	Apply basic Penetration Testing Tools											
Pre-requisites :Nil												
CO/PO Mapping (S/M/W indicates strength of correlation) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes(POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S		M	M	S		S	S			M
CO2	S	S		M	M	S		S	S			M

Course Assessment Methods												
Direct												
1.Objective type Assessment Test (Theory component)												
2. Penetration Lab Exercise (Lab Component)												

ETHICAL HACKING BASICS AND EMAIL HACKING										(2+1) Hours		
Introduction to Ethical Hacking: Information Security Overview-Information Security Threats and Attack Vectors-Hacking Concepts-Hacking Phases-Types of Attacks-Information Security Controls-Information Security Policies-Scope and Limitations of Ethical Hacking Email Hacking and Tracing: Hacking mail account passwords Mail Bombing-Fake mailing- Tracing back fake mails-Phishing attack(outdated)-Tabnabbing (replacing phishing)-Module 03: Spoofing Series-Changing the Geo-location--Hiding the IP address-Unblocking blocked websites Call Spoofing-Changing MAC address-Entering Darknet(the underground internet)												

COMPUTER HACKING, TROJANS AND VIRUSES										(2+1) 3 Hours		
Computer Hacking: Types Of Passwords-Stealing Passwords Using USB Drive-Stealing Passwords Using Keyloggers-Cracking LM, NTLMv1, and NTLMv2-Decrypting Hash Passwords Are Stored in Windows SAM-Unlocking windows without password-Cracking Linux password-Windows Backdoor-Steganography Techniques Trojan and Viruses: Trojan Concepts-Command Shell Trojans-GUI Trojan-E-mail Trojans-VNC Trojans-Remote Access Trojan-E-banking Trojan-Virus and Worms-Concepts-Types of Viruses-Computer Worms-Writing Virus Codes												

MOBILE HACKING AND FORENSICS										(2+1) 3 Hours		
Rooting & Jail breaking: Android OS Architecture-Android Device Administration API-Android -ulnerabilities-Android Rooting-Rooting Android Phones using SuperOneClick-Rooting Android Phones Using Superboot-Android Rooting Tools												

Reversing APK-Unpacking APK files-Dex2jar-Java Decompiler
Android Malwares:Session Hijacking Using DroidSheep-Android-based Sniffer: FaceNiff-Android Trojan: ZitMo (ZeuS-in-the-Mobile)-Android Trojan: AndroRAT
Mobile Forensics:Bypassing Mobile security-Dumping all data to local system-Android BOTNET
 Remotely hacking Android mobiles-Dumping Call logs-Dumping Contacts-Hacking Mobile Camera and Microphone

GOOGLE DORKING AND WEB SECURITY

(2+1) 3 Hours

Google Dorking: Downloading paid books-Getting sensitive credit card information-Hacking Remote Webcam-Advanced dorks for searching SQL/XSS-Downloading Sensitive Company/Organisation data-

Advanced Website Attacks: Web Application Architecture-DOS/DDOS (Distributed denial of service-DTA (Directory Traversal Attack)-SQL Injection-XSS(Cross Site Scripting) Attack-RFI (Remote File Inclusion) Vulnerability Attack-Securing The Website/Webserver

PENETRATION TESTING TOOL AND WIRELESS HACKING

(2+1) 3 Hours

Penetration Testing with Kali-Linux: Types of Pen Testing-Pen Testing Techniques-Hacking Windows OS Remotely-Dumping Remote windows Password-WebServer Penetration Testing

Wireless Hacking: Types of Wireless Encryption-How to Break WEP Encryption?-How to Break WPA/WPA2 Encryption?-How to Defend Against WPA Cracking?-Jamming Signal Attack
 Wireless cracking automated scripts

Theory: 10

Tutorial: 0

Practical: 5

Project: 0

Total: 15 Hours



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KUMARAGURU COLLEGE OF TECHNOLOGY, COIMBATORE-641049

(An Autonomous Institution affiliated to Anna University, Chennai)

Action taken Report – Student Feedback

Department of Electronics and Communication Engineering

Academic Year: 2016 – 2017

Date: 15.07.2017

S.No	Feedback	Action Taken
1.	Subjects like Linear Algebra, Data Structures, Analog Electronics, Electrical Engineering needs to be taught with less pace as it is found difficult for slow learners and lateral entry students.	All individual subject handling faculty were advised to take extra care on this issue.
2.	Industrial visits to be arranged.	Requested management for further approval.

Prepared By,

BoS Coordinator

Approved By,

BoS Chairman



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BRIDGE COURSE DETAILS

Date : 30.07.2018

S.No.	Course Code / Title	Date of Class	Time	Name of the faculty	Signature
1	MATHEMATICS 6	30.07.2018 (Mon), 31.07.2018(Tue), 06.08.2018(Mon), 07.08.2018(Tue), 11.08.2018(Fri), 13.08.2018(Mon)	3.40pm to 4.40pm	Dr. R.Krishnamoorthy, S&H (Maths)	
2	U17ECI3202T - ANALOG ELECTRONICS 10	01.08.2018(Wed), 02.08.2018(Thu), 08.08.2018(Wed), 09.08.2018(Thu), 16.08.2018(Thu), 23.08.2018(Thu), 29.08.2018(Wed), 30.08.2018(Thu), 05.09.2018(Wed), 06.09.2018(Thu)	Wednesday & Thursday 3.40pm to 4.40pm	Ms.S.Krithika Ms.T.Jasper Vinitha Sundari Ms.P.Pavithra ✓	
3	U17ECT3004 - ELECTRO MAGNETIC FIELDS 7	14.08.2018(tue), 20.08.2018(mon), 21.08.2018(tue), 27.08.2018(mon), 28.09.2018(tue), 3.09.2018(mon), 04.09.2018(tue)	3.40pm to 4.40pm	Mr.R.Darwin Mr.S.David Mr.D.Allin Joe	

HOD-ECE

17-21

18-19

LIST OF STUDENTS ATTENDING THE CLASS (LATERAL ENTRY STUDENTS)

SUBJECT: ANALOG ELECTRONICS

FACULTY: MS. JASPAR VINITHA/AP I/ECE)

S. No	Roll Number	Name of the Student	9.8.18	23.8.18	6.9.18	PRE INTERNAL
1.	17BEC204	MITHILAA S	P	P	P	P
2.	17BEC205	VENGADESH M	AB	P	AB	AB
3.	17BEC218	GAYATHRI R S	P	P	AB	P
4.	17BEC211	MANOJKUMAR S	AB	P	P	AB
5.	17BEC212	SHANGEETH RAJA J	AB	P	AB	AB
6.	17BEC216	JANANTH RAM M	AB	P	AB	AB
7.	17BEC217	DEEPAKRAJ K	AB	P	AB	AB
8.	17BEC224	DARSINI T S	P	AB	P	P
9.	17BEC226	GOKUL N	AB	AB	AB	AB
10.	17BEC230	RAGUL M	AB	P	AB	AB
11.	17BEC235	DINESH KUMAR N	AB	P	AB	AB
12.	17BEC201	MADHUMITHA.M	P	P	P	P - 23
13.	17BEC203	ARAVINTHA KUMAR.S	AB	AB	AB	AB
14.	17BEC206	MOHAMED YAHYA.K	AB	AB	AB	AB
15.	17BEC207	ARUNKUMAR R	P	P	AB	P - 5
16.	17BEC210	RAMAPRASHATH V G	P	P	P	P - 22
17.	17BEC213	PREETHI.S	P	P	P	P - 17
18.	17BEC215	KAMALESH.P	P	AB	AB	AB
19.	17BEC219	LAVANYA S.P	P	P	P	P - 11
20.	17BEC222	RAJAN.S	AB	P	AB	AB
21.	17BEC223	SANTHOSH.N.S	AB	AB	P	AB
22.	17BEC227	SELVABHARATHI.G	AB	AB	AB	AB
23.	17BEC228	RADHAKRISHNAN.S	AB	P	AB	AB
24.	17BEC229	HARIHARAN.M	AB	AB	AB	P - 7
25.	17BEC234	SARALESHKUMAR.S	AB	P	P	AB
26.	17BEC202	GOKULNATH S	P	P	P	P
27.	17BEC208	VASANTHAKUMAR L	P	P	P	AB
28.	17BEC209	PAVITHRA R	P	P	P	P
29.	17BEC214	SUBASRI N	P	P	P	AB
30.	17BEC220	MANOJ KARTHICK S	AB	P	P	P
31.	17BEC221	KOWSALYADEVI R	AB	P	P	P
32.	17BEC225	RAMYA M	P	P	P	P
33.	17BEC231	PARTHIPAN R	AB	AB	P	P
34.	17BEC232	YOGESHWARAN V	AB	P	AB	AB
35.	17BEC233	NIGILAN R R	P	P	AB	P

[Signature]
 10/9/18

[Signature]
 HOD - ECE



Proof for Action Taken 2: Requested management for further approval

Navaneetha krishnan Krishnan <navaneethakrishnan.ece@kct.ac.in>

Nov 09: Kumaraguru college of technology

Ebe <eben@iiap.res.in>

Thu, Oct 25, 2018 at 6:01 PM

To: outreach@iiap.res.in

Cc: navaneethakrishnan.ece@kct.ac.in, office.ece@kct.ac.in, "Dr. E.EBENEZER CHELLASAMY" <eben@iiap.res.in>

Dear Mr.Navaneetha Krishnan,

Your request to visit Kodaikanal Solar Observatory is approved. Your 3 staff and 60 students can visit our Observatory on November 09 at 10:00 am.

with regards,

Dr.Ebenezer,Head KSO

On 2018-10-25 12:58, outreach@iiap.res.in wrote:

OUTREACH FORM PREVIEW

This is an acknowledgement of your request and is system generated.

Details of the Institution :

Is your institution, A School/College?	: College
Name of the School/College	: Kumaraguru college of technology
School/College email id	: Office.ece@kct.ac.in
School/College Address	: Kumaraguru college of technology saravanmpatty coimbatore 641049
School/College website address (if available)	: www.kct.ac.in
Name of the coordinator	: Mr.Navaneetha Krishnan
Co-ordinator phone number	: 9944147137
Coordinator email id	: navaneethakrishnan.ece@kct.ac.in

Details of the visit :

Place of visit	: Kodaikanal Observatory
Number of students	: 60
Education level of the students	: BE (ECE)
Date of Visit	: 09/11/2018
Number of faculty members	: 3
Time preference	: Forenoon



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Department of Electronics & Instrumentation Engineering

AY: 2016-17

15.07.2017

Action taken report - Students Feedback

S.No	Analysis	Action taken report
1.	Include Instrumentation courses from second semester	Not possible since most of the credits are allotted for Maths, Physics, Chemistry, and other engineering science courses.
2.	Extra coaching classes for GATE etc is required for students	A course on Comprehensive studies - (U17EIT6003) is included already for the same
3.	Embedded systems and Industrial Automation course to be dealt in 5th or 6th semester	Implemented in 2017 Curriculum.
4.	Suggestion to bring Sensors Course in 1st semester and include MATLAB in 2nd semester	Basics of MATLAB is covered in 1st semester and second semester Mathematics Courses U17MAI1202 – Matrices and differential equation

Prepared by

V. Me
V. Manimekalai, AP-EIE
BoS Coordinator

Approved by

P. P. P.
BoS Chairman

U17EIT6003

COMPREHENSIVE STUDIES

L	T	P	J	C
2	0	0	0	2

Course Outcomes (CO):

After Successful completion of this course, the students will be able to :

CO1: Solve problems in areas of engineering mathematics and electrical circuits.

CO2: Solve problems in areas of signals and systems, analog electronics and control systems.

CO3: Solve problems in areas of digital electronics, measurements, sensors and industrial instrumentation

CO4 : Solve problems in areas of communication and optical instrumentation.

Pre-requisite: U18EII3201, U18EII3202, U18EII4202 U18EII5201, U18EII5203

COs	PO												PSO	
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	S	M		S	M								M	
CO2	M	M		M									M	
CO3	W		M										M	
CO4	M	M		W										M

Course Assessment Methods:

Direct	Indirect
<ul style="list-style-type: none"> Internal Tests Assignment End Semester Theory Exam 	<ul style="list-style-type: none"> Course Exit Survey

Course Content:

SECTION 1: ENGINEERING MATHEMATICS

Linear Algebra: Matrix algebra, systems of linear equations, Eigen values and Eigen vectors.

Calculus: Mean value theorems, theorems of integral calculus, partial derivatives, maxima and minima, multiple integrals, Fourier series, vector identities, line, surface and volume integrals, Stokes, Gauss and Green's theorems.

Differential equations: First order equation (linear and nonlinear), higher order linear differential equations with constant coefficients, method of variation of parameters, Cauchy's and Euler's equations, initial and boundary value problems, solution of partial differential equations: variable separable method.

Analysis of complex variables: Analytic functions, Cauchy's integral theorem and integral formula, Taylor's and Laurent's series, residue theorem, solution of integrals.

Probability and Statistics: Sampling theorems, conditional probability, mean, median, mode and standard deviation, random variables, discrete and continuous distributions: normal, Poisson and binomial distributions.

Numerical Methods: Matrix inversion, solutions of non-linear algebraic equations, iterative methods for solving differential equations, numerical integration, regression and correlation analysis.

Instrumentation Engineering

SECTION 2: ELECTRICAL CIRCUITS:

Voltage and current sources: independent, dependent, ideal and practical; v-i relationships of resistor, inductor, mutual inductor and capacitor; transient analysis of RLC circuits with dc excitation.

Kirchoff's laws, mesh and nodal analysis, superposition, Thevenin, Norton, maximum power transfer and reciprocity theorems.

Peak-, average- and rms values of ac quantities; apparent-, active- and reactive powers; phasor analysis, impedance and admittance; series and parallel resonance, locus diagrams, realization of basic filters with R, L and C elements.

One-port and two-port networks, driving point impedance and admittance, open-, and short circuit parameters.

SECTION 3: SIGNALS AND SYSTEMS

Periodic, aperiodic and impulse signals; Laplace, Fourier and z-transforms; transfer function, frequency response of first and second order linear time invariant systems, impulse response of systems; convolution, correlation. Discrete time system: impulse response, frequency response, pulse transfer function; DFT and FFT; basics of IIR and FIR filters.

SECTION 4: CONTROL SYSTEMS

Feedback principles, signal flow graphs, transient response, steady-state-errors, Bode plot, phase and gain margins, Routh and Nyquist criteria, root loci, design of lead, lag and lead-lag compensators, state-space representation of systems; time-delay systems; mechanical, hydraulic and pneumatic system components, synchro pair, servo and stepper motors, servo valves; on-off, P, P-I, P-I-D, cascade, feedforward, and ratio controllers.

SECTION 5: ANALOG ELECTRONICS

Characteristics and applications of diode, Zener diode, BJT and MOSFET; small signal analysis of transistor circuits, feedback amplifiers. Characteristics of operational amplifiers; applications of opamps: difference amplifier, adder, subtractor, integrator, differentiator, instrumentation amplifier, precision rectifier, active filters and other circuits. Oscillators, signal generators, voltage controlled oscillators and phase locked loop.

SECTION 6: DIGITAL ELECTRONICS

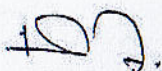
Combinational logic circuits, minimization of Boolean functions. IC families: TTL and CMOS. Arithmetic circuits, comparators, Schmitt trigger, multi-vibrators, sequential circuits, flip-flops, shift registers, timers and counters; sample-and-hold circuit, multiplexer, analog-to-digital (successive approximation, integrating, flash and sigma-delta) and digital-to-analog converters (weighted R, R-2R ladder and current steering logic). Characteristics of ADC and DAC (resolution, quantization, significant bits, conversion/settling time); basics of number systems, 8-bit microprocessor and microcontroller: applications, memory and input-output interfacing; basics of data acquisition systems.

SECTION 7: MEASUREMENTS

SI units, systematic and random errors in measurement, expression of uncertainty - accuracy and precision index, propagation of errors. PMMC, MI and dynamometer type instruments; dc potentiometer; bridges for measurement of R, L and C, Q-meter. Measurement of voltage, current and power in single and three phase circuits; ac and dc current probes; true rms meters, voltage and current scaling, instrument transformers, timer/counter, time, phase and frequency measurements, digital voltmeter, digital multimeter; oscilloscope, shielding and grounding.

SECTION 8: SENSORS AND INDUSTRIAL INSTRUMENTATION

Resistive-, capacitive-, inductive-, piezoelectric-, Hall effect sensors and associated signal

K.K. 

BOS Chairman

conditioning circuits; transducers for industrial instrumentation: displacement (linear and angular), velocity, acceleration, force, torque, vibration, shock, pressure (including low pressure), flow (differential pressure, variable area, electromagnetic, ultrasonic, turbine and open channel flow meters) temperature (thermocouple, bolometer, RTD (3/4 wire), thermistor, pyrometer and semiconductor); liquid level, pH, conductivity and viscosity measurement.


SECTION 9: COMMUNICATION AND OPTICAL INSTRUMENTATION

Amplitude- and frequency modulation and demodulation; Shannon's sampling theorem, pulse code modulation; frequency and time division multiplexing, amplitude-, phase-, frequency-, pulse shift keying for digital modulation; optical sources and detectors: LED, laser, photo-diode, light dependent resistor and their characteristics; interferometer: applications in metrology; basics of fiber optic sensing.

Theory Hours: 45	Practical Hours: 0	Total Hours: 45
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References :

1. **GATE Solved Papers for Instrumentation (IN)**
2. **Guidebook for Gate Instrumentation Engineering.**

K.K. 
BOS Chairman

Total Credits	21
Total Contact Hours/week	27

SEMESTER V										
S. No	Course code	Course Title	Course Mode	CT	L	T	P	J	C	Pre-requisite
1	U17EII5201	Process Dynamics and Control	Embedded-Theory and Practical	PC	3	0	2	0	4	U17EII4203
2	U17EII5202	Embedded Microcontrollers	Embedded-Theory and Practical	PC	3	0	2	0	4	U17EII4202
3	U17EII5203	Field Instrumentation	Embedded-Theory and Practical	PC	3	0	2	0	4	U17EII3202
4	U17EIT5004	Industrial Communication and Networking	Theory	PC	3	0	0	0	3	--
5	U17EIE00--	Professional Elective I	Theory	PE	3	0	0	0	3	--
6	U17-----	Open Elective I	Theory	OE	3	0	0	0	3	--
7	U17INI5600	Engineering Clinics III	Embedded-Practical and Project	ES	0	0	4	2	3	--
Total Credits									24	
Total Contact Hours/week									30	

SEMESTER VI										
S. No	Course code	Course Title	Course Mode	CT	L	T	P	J	C	Pre-requisite
1	U17EII6201	Industrial Automation	Embedded-Theory and Practical	PC	3	0	2	0	4	U17EII5201 U17EII5203
2	U17EII6202	Digital Signal Processing & Deep learning	Embedded-Theory and Practical	PC	3	0	2	0	4	U17EII4203
3	U17EIE00--	Professional Elective II	Theory	PE	3	0	0	0	3	--
4	U17-----	Open Elective II	Theory	OE	3	0	0	0	3	--
5	U17EIT6003	Comprehensive Studies	Theory	PC	2	0	0	0	2	U17EII3201, U17EII3202,

Proof for ATR point No.4

U17MAI1202

**Matrices and Differential
Equations
(For EIE)**

L	T	P	J	C
3	0	2	0	4

Course Outcomes

After successful completion of this course, the students should be able to

- CO1:** Identify eigen values and eigen vectors of matrices and examine the consistency of system of linear equations.
- CO2:** Apply orthogonal diagonalisation to convert quadratic form to canonical form.
- CO3:** Solve first order ordinary differential equations and apply them to certain physical situations.
- CO4:** Solve higher order ordinary differential equations and apply them to electrical circuits.
- CO5:** Evaluate the total derivative of a function, expand the given function as series and locate the maximum and minimum for multivariate function.
- CO6:** Determine Rank, Inverse, Eigen Values, Eigen vectors of the given matrix, Maxima-Minima of the function and Solve Differential equations using MATLAB

Pre-requisite : Nil

CO/PO Mapping (S/M/W indicates strength of correlation) S-Strong, M-Medium, W-Weak												
COs	Programme Outcomes(POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	S	S			M				M	M		M
CO2	S	S			M				M	M		M
CO3	S	S			M				M	M		M
CO4	S	S			M				M	M		M
CO5	S	S			M				M	M		M
CO6	S	S			M				M	M		M

Course Assessment methods

Direct

1. Continuous Assessment Test I, II (Theory component)
2. Open book test; Cooperative learning report, Assignment; Journal paper review, Group Presentation, Project report, Poster preparation, Prototype or Product Demonstration etc (as applicable) (Theory component)
3. Pre/Post - experiment Test/Viva; Experimental Report for each experiment (lab component)
4. Model examination (lab component)

5. End Semester Examination (Theory and lab component)

Indirect

1. Course-end survey

Theory Component contents

MATRICES

6 Hours

Rank of a matrix – Consistency of a system of linear equations - Rouché's theorem - Solution of a system of linear equations - Linearly dependent and independent vectors – Eigen values and Eigen vectors of a real matrix – Properties of eigen values and eigenvectors – Cayley Hamilton theorem (excluding proof).

DIAGONALISATION OF A REAL SYMMETRIC MATRIX

6 Hours

Orthogonal matrices – Orthogonal transformation of a symmetric matrix to diagonal form – Reduction of quadratic form to canonical form by orthogonal transformation.

FIRST ORDER ORDINARY DIFFERENTIAL EQUATIONS

11Hours

Leibnitz's equation – Bernoulli's equation – Equations of first order and higher degree - Clairauts form – Applications: Orthogonal trajectories and simple Electric circuit problems.

HIGHER ORDER LINEAR DIFFERENTIAL EQUATIONS

11Hours

Linear equations of second and higher order with constant coefficients – Euler's and Legendre's linear equations – Method of variation of parameters – First order Simultaneous linear equations with constant coefficients - Application - Electrical circuit. (Differential equations and associated conditions need to be given).

FUNCTIONS OF VARIABLES

11Hours

Total derivative – Taylor's series expansion – Maxima and minima of functions of two variables – Constrained maxima and minima: Lagrange's multiplier method with single constraints – Jacobians.

Theory: 45 Tutorial: 0 Practical: 0 Project: 0

Total: 45Hours

REFERENCES

1. Grewal B.S., "Higher Engineering Mathematics", Khanna Publishers, New Delhi, 40th Edition.
2. Veerarajan T., Engineering Mathematics (for First Year), Tata McGraw Hill Pub. Co. Ltd., New Delhi, Revised Edition, 2007.
3. Kandasamy P., Thilagavathy K., and Gunavathy K., "Engineering Mathematics", S.

- Chand & Co., New Delhi, (Reprint) 2008.
4. Kreyzig E., "Advanced Engineering Mathematics", Eighth Edition, John Wiley and sons, 2010.
 5. Arunachalam, T., Engineering Mathematics I, Sri Vignesh Publications, Coimbatore. (Revised) 2009.
 6. Venkataraman M.K., "Engineering Mathematics", The National Pub. Co., Chennai, 2003.
 7. Ramana B.V., "Higher Engineering Mathematics", Tata McGraw Hill Publishing Company, New Delhi, (2007).

Lab component:

List of Experiments

30 Hours

1. Introduction to Matlab
2. Matrix Operations - Addition, Multiplication, Transpose, Inverse
3. Rank of a matrix and solution of a system of linear equations
4. Characteristic equation of a Matrix and Cayley-Hamilton Theorem.
5. Eigen Values and Eigen Vectors of Higher Order Matrices
6. Curve tracing
7. Solving first order ordinary differential equations.
8. Solving second order ordinary differential equations.
9. Determining Maxima and Minima of a function of one variable.
10. Determining Maxima and Minima of a function of two variables.

Theory: 0	Tutorial: 0	Practical: 30	Project: 0	Total: 30Hours
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REFERENCES

1. E books and online course materials
2. Advanced Engineering Mathematics, P. V. O'Neil, 5th Indian reprint, 2009, CengageLearning India Pvt. Ltd.
3. Advanced Engineering Mathematics, Dennis Zill Warren S Wright Michael R. Cullen, 4th edition, 2011, Jones & Bartlett Learning.
4. www.arifsari.net/downloads/MATLAB.pdf



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Department of Fashion Technology

AY: 2016-17

Action taken report –Student Feedback

Date : 15.07.2017

S.No	Analysis	Action taken report
1.	More industrial visits should be provided to get more exposure on industrial practices.	Based on the need and importance, additional industrial visits may be arranged. At present students can take two visits per semester.
2.	More practical components should be added in the curriculum.	The curriculum and syllabus is balanced with theory and practical components. These components further strengthened with one credit courses.

PreparedBy,

BoS Coordinator

Approved By,

BoS Chairman

Sl.No:2 Practical components are strengthened by providing more one credit courses.

ONE CREDIT COURSES

Sl. No.	Course Title	Industry that will offer the course
U15FTIN01	Computer Aided textile and apparel designing	Apparel Industry/Consultants
U15FTIN02	Draping Techniques	Designers
U15FTIN03	Sewing machinery dynamics	Apparel Machinery Manufacturers/Suppliers
U15FTIN04	Developments in sewing machinery	Apparel Machinery Manufacturers/Suppliers
U15FTIN05	New trends in printing	Apparel Industry
U15FTIN06	Industrial Engineering Practices in Apparel Industry	Apparel Industry/Consultants
U15FTIN07	Application of six sigma in apparel manufacture	Apparel Industry
U15FTIN08	Waste elimination and value stream mapping in apparel industry	Apparel Industry
U15FTIN09	Certification procedures for product and process in apparel industry	Apparel Industry / Certification Agencies
U15FTIN10	Statistical analysis in the apparel industry	Research Institute/consultants
U15FTIN11	Export Market and Merchandising	Apparel Industry
U15FTIN12	Retail Analytics	Retail consultant
U15FTIN 13	Course I	
U15FTIN 14	Course II	
U15FTIN 15	Course III	



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DEPARTMENT OF COMPUTER APPLICATIONS

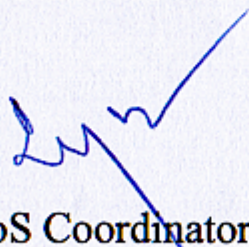
AY: 2016-17

Date: 15.07.2017

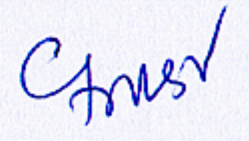
Action taken report -Student

S.NO	ANALYSIS	ACTION TAKEN REPORT
1.	Number of Soft Skills courses can be reduced to 2 by comprising the objectives of all proposed 4 courses.	BOS experts felt soft skills for essential, all the 4 courses are offered <ul style="list-style-type: none">• P17ENI1601 English for Pragmatic Usage• P17ENP2502 Professional Skills I• P17ENP3501 Professional Skills II• P17ENP4501 Professional Skills III
2.	Number of Mathematics courses can be reduced.	Offered two Mathematics courses, <ul style="list-style-type: none">• P17MAT1101 Mathematics for Computer Applications• P17MAI3201 Probability and Statistics for Data Analysis
3.	More electives can be offered in each track.	Introduced new elective courses according to the industry needs like <ul style="list-style-type: none">• P17CAE0011 Domain Analytics• P17CAE0002 Information Security

Prepared By,


BoS Coordinator

Approved By,


BoS Chairman

Proof for Action Taken 1 :

SEMESTER-I

[illegible]

SEMESTER-II

[illegible]

SEMESTER-III

[illegible]

SEMESTER-IV

[illegible]

Proof for Action Taken 2:

SEMESTER-I

Course Code	Course Title	Course Mode	L	T	P	J	C
P17CAT1001	Computational Thinking for Problem Solving	Theory	3	0	0	0	3
P17CAT1002	Computer Organization	Theory	3	0	0	0	3
P17CAT1103	Operating Systems	Theory	3	1	0	0	4
P17HET1001	Empowering the Body and Enlightening the Mind	Theory	3	0	0	0	3
P17MAT1101	Mathematics for Computer Applications	Theory	3	1	0	0	4
P17ENI1601	English for Pragmatic Usage	Embedded Lab & Project	0	0	2	2	2
P17CAP1501	Problem Solving Laboratory	Lab	0	0	4	0	2
Total Credits							21
Total Periods per week							25

SEMESTER-III

Course Code	Course Title	Course Mode	L	T	P	J	C
P17CAI3201	User Interface Design and Development	Embedded – Theory & Lab	3	0	2	0	4
P17CAT3102	Analysis of Algorithms	Theory	3	1	0	0	4
P17CAT3003	Machine Learning & Data Analysis	Theory	3	0	0	0	3
P17MAI3201	Probability and Statistics for Data Analysis	Embedded – Theory & Lab	3	0	2	0	4
P17CAI3203	Programming with JAVA	Embedded – Theory & Lab	3	0	2	0	4
P17ENP3501	Professional Skills II	Lab	0	0	2	0	1
P17INI3600	Engineering Clinic –I	Embedded Lab & Project	0	0	4	2	3
Total Credits							23
Total Hours per week							30

Proof for Action Taken 3: Introduced new elective courses according to the industry needs .

List of Program Electives

Code No.	Course Title	Course Type	L	T	P	J	C
P17CAE0001	Service Oriented Architecture	PE	3	0	0	0	3
P17CAE0002	Information Security	PE	3	0	0	0	3
P17CAE0003	Object Oriented Analysis and Design	PE	3	0	0	0	3
P17CAE0004	Game Development	PE	3	0	0	0	3
P17CAE0005	Software Project Management	PE	3	0	0	0	3
P17CAE0006	E- Commerce	PE	3	0	0	0	3
P17CAE0007	TCP/IPV6 Protocol Suite	PE	3	0	0	0	3
P17CAE0008	Digital Image Processing	PE	3	0	0	0	3
P17CAE0009	Wireless Networks	PE	3	0	0	0	3
P17CAE0010	Professional Ethics	PE	3	0	0	0	3
P17CAE0011	Domain Analytics	PE	3	0	0	0	3
P17CAE0012	Artificial Intelligence & Expert Systems	PE	3	0	0	0	3
P17CAE0013	Accounting and Financial Management	PE	3	0	0	0	3
P17CAE0014	Enterprise Resource Planning	PE	3	0	0	0	3
P17CAE0015	Managing Technical People	PE	3	0	0	0	3
P17CAE0016	Management Information System	PE	3	0	0	0	3



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Department of Mechanical Engineering

AY: 2016-17

Date: 15.07.2017

Students Feedback

1. Industry relevant One credit course can be organised with External resource person.
2. Industrial training, internship and projects can be arranged for the prefinal and final year students.

Prepared By,

Dr.M.Balaji

BoS Coordinator

Approved By,

Dr.V.Muthukumaran

BoS Chairperson

Professor & Head
Department of Mechanical Engineering
Kumaraguru College of Technology
Coimbatore-641 049.



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Department of Mechanical Engineering

AY: 2016-17

Date: 15.07.2017

Feedback Analysis Report -Students

1. Industry relevant One credit course can be organised with External resource person. **Response:**
One credit and value-added course coordinator requested to arrange the courses as per the student's request.
2. IIPC coordinator requested to arrange the Industrial training, internship and projects for the prefinal and final year students.

Prepared By,

Dr. M. Balaji

BoS Coordinator

Approved By,

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Department of Mechanical Engineering


AY: 2016-17

Date: 15.07.2017

Action taken report -Students Feedback

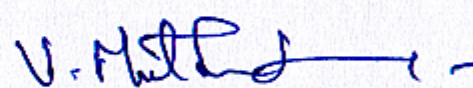
S.No	Analysis	Action taken report
1.	Industry relevant One credit course can be organised with External resource person	The curriculum (R-2015 V2) is having 8 one credit courses, if any new course is required will be presented in the next BOS meeting.
2.	Industrial training, internship and projects can be arranged for the prefinal and final year students	Internship coordinator is requested to take necessary action

Prepared By,


Dr.M.Balaji

BoS Coordinator

Approved By,


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Department of Mechatronics Engineering

AY: 2016-17

Date:(15.07.17)

Action taken report -Student Feedback

S.No	Analysis	Action taken report
1.	Microprocessors & Microcontrollers can be made as a separate subject.	Can't be made due to the addition of more new Professional core subjects
2.	No of experiments in electrical drive system laboratory can be reduced.	Can't be reduced due to the power electronics and electrical machines content will be missed.
3.	eRide concept looks good.	Social immersion project was introduced in second semester
4.	There might be an elective on CAE computer aided engineering just like subject on CAD/CAM.	Computer Integrated Manufacturing is in Professional Elective and CAD/CAM Lab is in laboratory.
5.	The first semester does not contain knowledge about electronics. At least fun electronics events like Arduino related events can motivate students to learn more about Arduino.	Since basic science paper is added, electronics paper is moved to second semester
6.	On my view I think the curriculum misses one lag domain "cyber security" which should be mandatory. It comes in every electronics and students need to know about it.	Students offered open elective in which they can choose the cyber security

Prepared By,

BoS Coordinator

Approved By,

BoS Chairman



Department of Mechatronics Engineering

AY: 2016-17

Date:(15.07.17)

Action taken report -Student Feedback(Proof)

Proof 2:

LIST OF EXPERIMENTS

Electrical Machines

1. Load test on DC Shunt motor
2. Load test on DC series motors
3. Speed control of DC shunt motor (Armature and Field Control)
4. Load Test on Three Phase Squirrel Cage Induction motor

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5. Speed control of three phase slip ring induction motor
 6. Speed control of DC shunt motor using controlled rectifiers
 7. Speed control of BLDC motor
 8. Speed control of Stepper motor.
 9. Voltage / Frequency control of three phase induction motor using inverter.

Power Electronics

1. Study of SCR, MOSFET & IGBT characteristics.
2. UJT, R and RC firing circuits for SCR.
3. IGBT based PWM inverter (single phase).
4. SCR / TRIAC phase control circuits.
5. Study of half controlled & fully controller converters.
6. Speed control of DC shunt motor using three phase fully controlled converter.
7. IGBT Chopper.

Proof 3:

11	U15SIP201	Social Immersion Project	HS	2	0	0	2	2
TOTAL				38				25

Proof 4:

U15MCE303	Computer Integrated Manufacturing	PE	3	3	0	0	3	
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PRACTICAL

U15MCP601	CAD/CAM Laboratory	PC	3	0	0	3	1	
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Proof 5:

5.	U15MET202	Engineering Mechanics	ES	5	3	2	0	4
6.	U15MCT201	Electronic Devices and Circuits	PC	4	3	0	0	3

Proof 6:

OE1*	Open Elective-I	OE	3	3	0	0	3	
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