

DEPARTMENT OF BIOTECHNOLOGY

Action Taken Report - "Students Feedback" Academic Year 2018-2019

Date: 15-Apr 2019

S.No	Suggestions	Action Taken							
1.	Application level question can be	_							
	module and included after each	are included in the assessment							
2.	Concepts of Manufacturing can be								
	included	topics are part of all Chemical							
		Engineering and Pharma-related							
		subjects							

Prepared by BOS Coordinator Approved by Chairman BOS



Register Number:

MID TERM EXAMINATION (Nov -2018)

(Regulation 2018)

GENERAL INSTRUCTIONS TO THE CANDIDATES

- 1. Candidates are instructed to answer the questions as per Revised Bloom's Taxonomy knowledge level (K₁ to K₆)
- 2. Candidates are strictly instructed not to write anything in the question paper other than their roll number.
- 3. Candidates should search their pockets, desks and benches and handover to the Hall Superintendent/ Invigilator if any paper, book or note which they may find therein as soon as they enter the examination hall.
- 4. Candidates are not permitted to bring electronic watches with memory, laptop computers, personal systems, walkie-talkie sets, paging devices, mobile phones, cameras, recording systems or any other gadget / device /object that would be of unfair assistance to him / her.
- 5. Corrective measures as per KCT examination policies will be imposed for malpractice in the hall.

FIRST SEMESTER M.TECH - BIOTECHNOLOGY P18BTI1202: Bioprocess Modeling and Simulation **COURSE OUTCOMES:** Conceptualize mathematical and engineering concepts in bioprocess modelling and simulation CO1: Identify and analyze mathematical model in biochemical engineering systems CO2: Educate the appropriate selection of components in SuperPro Designer CO3: Time: Two Hours Maximum Marks: 50 **Answer all the Questions:-**PART A (5x 1 = 5 Marks)(Multiple Choice Questions) $[CO_3K_1]$ 1. Substances that are mixed together but are not chemically combined are called Mixture Solution a) b) Solute **d**) Solvent c) $[CO_2K_2]$ Assertion: A dependent variable is what you measure in the experiment and what is affected during the experiment

		iable			
	a)	Both A and R are Individually	b)	Both A and R are Individually true but R is not the correct explanation of	
		true and R is the correct		A	
	(c)	explanation of A A is true but R is false	d)	A is false but R is true	
3.		cess in which the dependent variate	,	kent uniform and varying only	[CO ₁ K
٥.		independent variable is	one are	Kept uniform and varying only	
	a)	Lumped Parameter Process	b)	Distributed Parameter Process	
	c)	Static Process	d)	Fundamental Process	
4.	SIU	Unit of Volumetric flowrate is			[CO ₃ K
	a)	m^3/s	b)	m/s ⁻¹	
	c)	m/s	d)	m^2/s^{-1}	
	a) c)	4. Sephacryl 1 and 2 only 3 only	b) d)	3 and 4 only 4 only	
		PART B $(5x 2 = 10)$	Marks	s) (Short Answers)	
		PART B (5x 2 = 10 M (Answers not			
6.	Enl	`	excee		[CO ₁ K
6. 7.		(Answers not	excee tions	d 40 words)	
	Dif Illu	(Answers not ist the types of mathematical equa	excee tions el with	d 40 words) an example	[CO ₁ k
7.	Dif Illu asso	(Answers not ist the types of mathematical equal ferentiate static and dynamic mode strate the various operational stage	exceetions el with	an example ioprocess with the unit operations	[CO ₁ K

	PART C (5 x 5 = 25 Marks)							
	(Answers not exceed 150 words)							
11.	State the significance of Thiele modulus and effectiveness factor	[CO ₂ , K ₂]						
12.	Derive a modeling equation for the non-isothermal CSTR when the volume	$[CO_2K_3]$						
	of the reactor (V) remains constant.							
13.	13. In a fermentation process involving production of enzyme, what is advantage							
	of employing batch process over the continuous operation?							
14.	How would you define biomass in a pure component library?	[CO ₃ K ₂]						
15.	"Freeze-drying is viewed as the optimal method of choice for dehydration	[CO ₃ K ₄]						
	because of the preservation of quality" - Justify the statement.							
	PART D (1 x 10 = 10 Marks)							
	(Answers not exceed 300 words)							
16.	Derive a mathematical model for the Ideal Binary distillation column	$[\mathrm{CO}_2\mathrm{K}_4]$						
	with 15 trays, a reboiler and a partial condenser.							
	Assumptions:							
	A) A partially vapourized feed of 1-proponal and ethanol is fed at the							
	5 th tray of the column							
	B) Liquid hold-up varies at each tray.							
	C) Each tray is assumed to be ideal (100 % efficient)							

U18BTT6001

BIOPHARMACEUTICAL TECHNOLOGY

L T P J C

3 0 0 0 3

Course Objective

To understand the importance of regulatory affairs in drug control, standards and drug manufacture process.

Course Outcomes

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

CO1: Outline National, International drug Standards, Control and pharmacopoeia commission

CO2: Describe the principles of drug action and mechanism of action

CO3:Discuss and obtain knowledge on the drug development, manufacture process and Regulatory practices

CO4: Understand the importance of biopharmaceutical final products production using upstream downstream process and ensure the quality of the product analysis

CO5: Explain the principles and materials involved during the drug manufacture in pharmaceutical industries

CO6: Discuss the clinical uses of biopharmaceutical therapeutics

Pre-requisites: Nil

	CO/PO Mapping													
	(S/M/W indicates strength of correlation)													
	S-Strong, M-Medium, W-Weak													
COs						Prog	ramme	Outco	mes(P	Os)				
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	S		M		M						M			
CO2	M		M								M	S	S	
CO3	M		S		M							S	S	S
CO4			M								M	M	S	S
CO5	M			S									S	S
CO6	M	S		S										S

Course Assessment methods

Direct	
1.	Continuous Assessment Test
2.	Assignment
3.	End Semester Examination

DRUG CONTROL AND STANDARDS

8 Hours

Drug standards, regulation and control organizations: National agencies (Central Drug Standards and Control Organization (CDSCO); Indian Pharmacopoeia commission (IPC); Drugs Controller General of India (DCGI) and Indian Council for Medical Research (ICMR). International agencies (WHO guidelines on medicines policy; Food and Drug Administration (FDA); New Drug Application (NDA); Medicines and Healthcare products Regulatory Agency (MHRA).

Signature of BOS chairman, BT



Department of Electrical and Electronics Engineering

AY: 2018-19

date: 11-12-2018

Action taken report -Students Feedback

S.No	Analysis	Action taken report					
1.	Language Lab and computer programming lab need to be enhanced.	U18ENI1201- Fundamentals of Communication & II and computer programming course U18CSI1202- Problem solving and Programming using C & Python in R18 regulation					
2.	Python programming to be introduced in the curriculum.	Python Programming is included in R18 regulation U18CSI12201- Python Programmi					
3. Internet of Things (IOT) with both theory / lab component can be included.		U18EEE0008 internet of things along with practical components is Included in R18 as elective course					
4.	Programmable Logic Controllers (PLC) course with both theory / lab component to be included.	PLC automation course is included In R17 & R18 regulation					
5.	Embedded system lab can be included with Real time embedded coding.	U18EEI6201-Embedded system theory with practical components is Included in R18 regulation					

Prepared By,

Dr,V.Kandasamy

BoS Coordinator

Dr.K.Malarvizhi

BoS Chairman

Proof for Action Taken: 1 - Included language courses on English U18ENI1201- Fundamentals of Communication-I & II and computer programming course U18CSI1202- Problem solving and Programming using C & Python in R18 regulation

KUMARAGURU COLLEGE OF TECHNOLOGY B.E ELECTRICAL AND ELECTRONICS ENGINEERING CURRICULUM REGULATIONS 2018

		S	EMESTER I							
S. No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	С	Pre- requisite
1	U18MAI1201	Linear Algebra and Calculus	Embedded- Theory & Lab	BS	3	0	2	0	4	-
2	U18PHI1201	Engineering Physics	Embedded- Theory & Lab	BS	3	0	2	0	4	-
3	U18CSI1202	Problem solving and Programming using C	Embedded- Theory & Lab	ES	2	0	2	0	3	-
4	U18MEI1201	Engineering Graphics	Embedded- Theory & Lab	ES	2	0	2	0	3	-
5	U18ENI1201	Fundamentals of Communication-I	Embedded- Theory & Lab	HS	2	0	2	0	3	-
6	U18INI1600	Engineering Clinic 1	Embedded- Practical & Project	ES	0	0	4	2	3	-
	Total Credits							20		
	Total Contact Hours/week							28		

	SEMESTER II									
S. No	Course code	Course Title	Course Mode	СТ	L	T	P	J	С	Pre-requisite
1	U18MAI2201	Advanced Calculus and Laplace Transforms	Embedded- Theory & Lab	BS	3	0	2	0	4	U18MAI1201
2	U18CHI2201	Engineering Chemistry	Embedded- Theory & Lab	BS	3	0	2	0	4	-
3	U18ENI2201	Fundamentals of Communication-II	Embedded- Theory & Lab	HS	2	0	2	0	3	-
4	U18CSI2201	Python Programming	Embedded- Theory & Lab	ES	2	0	2	0	3	-
5	U18EEI2201	Electric Circuit Analysis	Embedded- Theory & Lab	PC	3	0	2	0	4	-
6	U18INI2600	Engineering Clinic 2	Embedded- Practical & Project	ES	0	0	4	2	3	-
	Total Credits 2						21			
	Total Contact Hours/week 29									



Proof for Action Taken: 2 - Python Programming is included in R18 regulation U18CSI12201-Python Programming

KUMARAGURU COLLEGE OF TECHNOLOGY B.E ELECTRICAL AND ELECTRONICS ENGINEERING CURRICULUM REGULATIONS 2018

	SEMESTER I									
S. No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	C	Pre- requisite
1	U18MAI1201	Linear Algebra and Calculus	Embedded- Theory & Lab	BS	3	0	2	0	4	-
2	U18PHI1201	Engineering Physics	Embedded- Theory & Lab	BS	3	0	2	0	4	-
3	U18CSI1202	Problem solving and Programming using C	Embedded- Theory & Lab	ES	2	0	2	0	3	-
4	U18MEI1201	Engineering Graphics	Embedded- Theory & Lab	ES	2	0	2	0	3	-
5	U18ENI1201	Fundamentals of Communication-I	Embedded- Theory & Lab	HS	2	0	2	0	3	-
6	U18INI1600	Engineering Clinic 1	Embedded- Practical & Project	ES	0	0	4	2	3	-
	Total Credits						20			
	Total Contact Hours/week						28			

	SEMESTER II									
S. No	Course code	Course Title	Course Mode	CT	L	Т	P	J	С	Pre-requisite
1	U18MAI2201	Advanced Calculus and Laplace Transforms	Embedded- Theory & Lab	BS	3	0	2	0	4	U18MAI1201
2	U18CHI2201	Engineering Chemistry	Embedded- Theory & Lab	BS	3	0	2	0	4	-
3	U18ENI2201	Fundamentals of Communication-II	Embedded- Theory & Lab	HS	2	0	2	0	3	-
4	U18CSI2201	(Python Programming)	Embedded- Theory & Lab	ES	2	0	2	0	3	-
5	U18EEI2201	Electric Circuit Analysis	Embedded- Theory & Lab	PC	3	0	2	0	4	-
6	U18INI2600	Engineering Clinic 2	Embedded- Practical & Project	ES	0	0	4	2	3	-
Total Credits						lits	21			
	Total Contact Hours/week							29		



Proof for Action Taken: 3 - U18EEE0008 internet of things along with practical components is Included in R18 as elective course

U18EEE0008

INTERNET OF THINGS

L T P J C 2 0 2 0 3

COURSE OUTCOMES

After successful com	pletion of this course,	, the students would be able to

CO ₁	Outline the Internet of Things Architecture, Sensor, Actuators and Networking	K2
CO2	Summarize various hardware and software elements of IoT	K2
CO3	Outline the various associated technologies of IoT	K2
CO4	Illustrate IoT for different Commercial and Industrial applications.	K2
CO5	Model the IoT application	K3

		(S/	M/W i	ndicate	s stren		O/PO N		_	, M-Med	lium, W	-Weak		
CO					Progr	amme	Outcor	nes(PC	s)				PS	Os
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1					S									
CO2					S									
CO3					S									
CO4					S									
CO5					S								S	S

COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I, II
- 2. Model Examination (For Practical Courses & Embedded Courses)
- 3. Assignment, Open Book Test, Cooperative Learning Report, Group Presentation, Problem based Learning, Project based Learning, Mini Projects, Project Report, Quiz, Role Play, Self-Explanatory Videos, Prototype or Product Demonstration etc. (as applicable)
- 4. End Semester Examination

Indirect

- 1. Course End Survey
- 2. Programme Exit Survey
- 3. Placement/Higher Education Record
- 4. Feedback (Students, Employers, Parents, Professional Body members, Alumni)

THEORETICAL COMPONENT CONTENTS:

Introduction to IoT 8 hours

Architectural Overview, Design principles and needed capabilities, IoT Applications, Sensing, Actuation, Basics of Networking, M2M and IoT Technology Fundamentals- Devices and gateways, Data management, Business processes in IoT, Everything as a Service(XaaS), Role of Cloud in IoT, Security aspects in IoT.

Elements of IoT 9 Hours



126

Hardware Components- Computing (Arduino, Raspberry Pi), Communication, Sensing, Actuation, I/O interfaces.

Software Components- Programming API's (using Python/Node.js/Arduino) for Communication Protocols-MQTT, BLE, CoAP, UDP, TCP, LoRa WAN.

Associated Technologies

8 Hours

Introduction to SDN-SDN for IoT, Data Handling and Analytics, Cloud Computing-Cloud Computing, Fog Computing-Edge Computing, Li-Fi.

APPLICATIONS 5 Hours

Smart Cities and Smart Homes-Connected Vehicles, Smart Grid, Industrial IoT, Precision Agriculture, Healthcare.

PRACTICAL COMPONENT CONTENTS: LIST OF EXPERIMENTS

Arduino I/O programming

- 1. LED and DIP Switch
- 2. Interfacing with Sensor and Actuators
- 3. Interfacing with LCD Display
- 4. Communication over Bluetooth-MIT APP Inventor
- 5. Cloud Interfacing (Azure/Amazon web services/Think speak)

Raspberry Pi Programming using Python

- 6. LED and DIP Switch
- 7. Interfacing with Sensor and Actuators
- 8. To install MySQL database on Raspberry Pi and perform basic SQL queries.
- 9. Write a program to create TCP/UDP server on Arduino/Raspberry Pi and respond with humidity data to TCP client when requested.
- 10. Cloud Interfacing (Azure/Amazon web services/Think speak)

Study on Industrial IoT Gateway and LoRa Communication

REFERENCES

- 1. Vijay Madisetti, Arshdeep Bahga, Ïnternet of Things, "A Hands on Approach", University Press
- David Hanes, "IoT Fundamentals Networking Technologies, Protocols, and Use Cases for Internet of Things", CISCO Press, 2017
- 3. Pethuru Raj and Anupama C. Raman, "The Internet of Things: Enabling Technologies, Platforms, and Use Cases", CRC Press, 2017
- 4. Raj Kamal, "Internet of Things: Architecture and Design", McGraw Hill
- 5. NPTEL Reference: https://nptel.ac.in/courses/106/105/106105166/

Theory: 30 Tutorial: 0 Practical: 30 Project: 0 Total: 60 Hours



KUMARAGURU COLLEGE OF TECHNOLOGY

B.E ELECTRICAL AND ELECTRONICS ENGINEERING CURRICULUM REGULATIONS 2017

		SEME	STER III							
S. No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	С	Pre- requisite
1	U17MAT3101	Partial Differential Equations and Transforms	Theory	BS	3	1	0	0	4	-
2	U17EEI3201	DC Machines and Transformers	Embedded- Theory & Lab	PC	3	0	2	0	4	-
3	U17EET3002	Electromagnetic Fields	Theory	PC	3	0	0	0	3	-
4	U17EEI3203	Analog Electronics	Embedded- Theory & Lab	PC	3	0	2	0	4	-
5	U17EET3004	Measurements and Instrumentation	Theory	PC	3	0	0	0	3	-
6	U17INI3600	Engineering Clinic 1	Embedded- Practical & Project	ES	0	0	4	2	3	-
					Tot	tal C	red	its	21	
Total Contact Hours/week 20									26	

	SEMESTER IV										
S. No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	C	Pre-requisite	
1	U17MAT4101	Numerical Methods and Probability	Theory	BS	3	1	0	0	4	U17MAT3101	
2	U17EEI4201	Induction and Synchronous Machines	Embedded- Theory & Lab	PC	3	0	2	0	4	U17EEI3201	
3	U17EET4002	Generation, Transmission And Distribution	Theory	PC	3	0	0	0	3	U17EET3002	
4	U17EEI4203	Digital Electronics	Embedded- Theory & Lab	PC	3	0	2	0	4	U17EEI3203	
5	U17EET4004	Digital Signal Processing	Theory	PC	3	0	0	0	3	U17MAT3101	
6	(U17EEI4205)	(PLC Automation	Embedded- Theory & Lab	PC	2	0	2	0	3	-	
7	U17INI4600	Engineering Clinic 2	Embedded- Practical & Project	ES	0	0	4	2	3	U17INI3600	
					Tot	al C	red	its	24		
			Total (Conta	et H	our	s/we	ek	30		



Proof for Action Taken: 5 - U18EEI6201-Embedded system theory with practical components is Included in R18 regulation

U18EEI6201 EMBEDDED SYSTEM L T P J C

COURSE OUTCOMES

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

CO1	Understand the fundamentals of Embedded systems and its communication protocols.	K2
CO ₂	Understand the basic concepts of RTOS for optimized CPU performance.	K2
CO ₃	Understand the architectural features of ARM processor.	K2
CO ₄	Apply the instructions to program ARM processor using Embedded C.	K3
CO ₅	Analyze the internal peripherals of ARM processor using an IDE.	K4

PRE-REOUISITE

Microprocessors and Microcontrollers

	01000	,5015 6												
		(S/I	M/W iı	ndicate	s streng		/PO M		_	, M-Me	dium, W	/-Weak		
CO	Programme Outcomes(POs)												PSOs	
CO	PO	РО	PO	PO	PO	PO	PO	PO	PO	PO1	PO1	PO1	PSO	PSO
_	1	2	3	4	5	6	7	8	9	0	1	2	1	2
CO1	S	M											M	
CO2	S	M											M	
CO3		S	S	M	M				M		M	M	M	
CO4			S	S	S				S		M	M	M	S
CO5	S		M		M						M		M	M

COURSE ASSESSMENT METHODS

Direct

- 1. Continuous Assessment Test I, II
- 2. Model Examination (For Practical Courses & Embedded Courses)
- Assignment, Open Book Test, Cooperative Learning Report, Group Presentation, Problem based Learning, Project based Learning, Mini Projects, Project Report, Quiz, Role Play, Self-Explanatory Videos, Prototype or Product Demonstration etc. (as applicable)
- 4. End Semester Examination

Indirect

- 1. Course End Survey
- 2. Programme Exit Survey
- 3. Placement/Higher Education Record
- 4. Feedback (Students, Employers, Parents, Professional Body members, Alumni)

THEORETICAL COMPONENT CONTENTS:

INTRODUCTION TO EMBEDDED SYSTEMS AND RTOS

0 Hours

Embedded Systems: Fundamentals, I/O Devices and Classification – Embedded product life cycle – Communication Devices and Ports – Serial Communication Protocols: SPI, I²C, CAN, USB – Wireless and Mobile System Protocols – RTOS for Embedded Systems – Task Scheduling and Policies.

ARM ARCHITECTURE

10 Hours



ARM Programmer's model – Registers – Processor modes – Pipeline – Interrupts – ARM organization – ARM processor families – Overview of ARM and Thumb instructions – Instruction Scheduling – ARM Memory Management Unit – Register Allocation.

ARM LPC2148 PROGRAMMING

10 Hours

Writing and optimizing the embedded C Code – Profiling and Cycle Counting – Conditional Execution – Looping Constructs – Timers and counters – Watchdog timer – UART – ADC – DAC – PWM. Programming Tool: KEIL IDE.

PRACTICAL COMPONENT CONTENTS:

LIST OF EXPERIMENTS ARM LPC2148

- 1. Program using Arithmetic operations
- 2. Program using logic operations
- 3. LED programming
- 4. Analog to digital conversion
- 5. PWM control
- 6. Timer programming
- 7. Interrupt programming
- 8. Interfacing with LCD
- 9. Interfacing with Seven segment display
- 10. Study on communication protocols

TEXTBOOKS

- Raj Kamal, "Embedded Systems Architecture, Programming and Design", 2nd Edition, Tata McGraw Hill, New Delhi, 2013.
- 3. Andrew N. Sloss, Dominic Symes, Chris Wright, John Ray field 'ARM System Developer's Guide Designing and Optimizing System Software', Morgan Kaufmann Publishers, 2009.

REFERENCES

- 2. Steve Furber, "ARM System-on-Chip Architecture", Pearson Education, 2013.
- 3. Trevor Martin, 'The Insider's Guide to the Philips ARM7-Based Microcontrollers, An Engineer's Introduction To The LPC2100 Series' Hitex (UK) Ltd.,
- 4. David E Simon, "An Embedded Software Primer", Pearson Education India, New Delhi, 2013
- 5. https://www.nxp.com/docs/en/data-sheet/LPC2141_42_44_46_48.pdf.

Theory: 30 Tutorial: 0 Practical: 30 Project: 0 Total: 60 Hours





Department of Information Technology

AY: 2018-19 Date:15.04.2019

Action taken report -Student Feedback

S.No	Analysis	Action taken report
1.	Courses like entrepreneurship, salesforce can be offered as the elective or one credit course	Courses offered as one credit courses
2.	Project based lab courses can be included as it helps to gain confidence to students for doing final year project	In R17 and R18 Curriculum U17ITI4303 - Database Management system, U17ITI5304- Software engineering courses lab are offered as project based

Prepared by

BoS Coordinator

Approved by

BoS Chairman

Proof for Action Taken 1: entrepreneurship, salesforce Courses offered as one credit courses

One Credit course on "U15ITIN01INNOVATION AND ENTREPRENEURSHIP"

organized by Dr.N.Rajathi ASP/IT and Ms.M.N.Saroja ,AP/IT

on 03.12.2019 & 04.12.2019

Date	Session Details	Resource Person
03.12.2019	 Introduction to Entrepreneurship & Business Plans Understanding Failures in Entrepreneurship Thinking Innovatively for Engineers Preparing your Business Plan effectively Branding & Company Description Understanding your Target Market, industry analysis, trends and future Markets Risk Management, Sales Strategy, Marketing; Scenario Plans & Elevator Pitch 	1.Mr. R. Kesavamurthi, B.E, PGDM M/s VIRUKSH ASSOCIATES, Coimbatore 2. Ms. Nalina Keshav, B.E, MBA M/S GOVIND HRD PVT LTD,
04.12.2019	 Operations, Technology, Management & Organization Intellectual Property Venture Capital Financing Community Involvement, Social Responsibility, Milestones and Exit Plans The Lean Startup Types of Organizations to Consider while making a business plan 	Coimbatore.



KUMARAGURU COLLEGE OF TECHNOLOGY

COIMBATORE - 641 049

(An Autonomous Institution Affiliated to Anna University, Chennal)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Submitted to The Principal

Sub: Request to approve sales force elective course registration fee-Reg.

We, the CSE department is working in setting up the Centre of Excellence in Salesforce paltform, world's #1 CRM service provider. The main objectives of this initiative is to

- Train and equip our students on Salesforce platform and its related technologies
- Getting internships for our students in the Salesforce partnered companies
- Make our students to get placed in companies working on Salesforce platform

Since KCT is an institute partner of ICT Academy, we have received a proposal from ICT Academy to offer 5 days training programme on Salesforce Platform App Builder (Dev 402). This has been mapped as Programme Elective and 50 students from III year, IV year (CSE/IT) and I year PG (CSE) have registered for this course. The course fee for the above mentioned course (Dev 402) is Rs. 5,000 per student. Since we are offering this course for the first time, in order to motivate the students and considering the employability opportunity, it is proposed that the institution may sponsor 50% of the fee and the rest will be borne by the student. Once the students completed this course, they will get internship and placement offers from the salesforce partnered companies. So far two companies are ready to offer internships to 15 students to work In salesforce platform.

The proposal from ICT Academy for the above mentioned course and the course plan is attached with this letter for your kind reference.

Estimated budget

To be borne by student 45*2500 =1,12,500

J.C 10/18

Size W

Enclosures:

- 1. Salesforce (Dev 402) Proposal
- 2. Course Plan

Proof for Action Taken 2: R17 and R18 Curriculum U17ITI4303 -Database Management system, U17ITI5304-Software engineering courses lab are offered as project based in IV and

V semester Pre-requisite SEMESTER - IV P CT L Course Title Course Mode S.No Course Code 4 2 0 BS 3 0 Embedded -U18MAI4201 Probability and 1. Theory & Lab **Statistics** 0 3 0 PC 3 0 U18ITT4001 Operating Theory 2 Systems U18ITI3202 PC 2 0 4 3 0 Embedded -U18ITI4202 Design and 3 Analysis of Theory & Lab Algorithms 4 3 2 U18ITI4303 Data Base Embedded -PC 0 0 4 Management Theory &Project Systems Computer U18ITI4204 Embedded -PC 3 U18ECT3011 0 0 4 5 Theory & Lab Networks U18INI4600 Engineering Embedded -ES 0 0 4 2 6 3 Clinic IV Lab& Project Total Credits | 22 Total Periods per week

									Pre-requisite	
S.No	Course Code	Course Title	Course Mode	CT	L	T	P	J	C	所作為法院
1	U18MAT5101	Partial Differential Equations and Transforms	Theory	BS	3	1	0	0	4	-
2	U18ITI5201	Data Mining Techniques	Embedded - Theory & Lab	PC	3	0	2	0	4	U18ITI4303, U18MAI420
3	U18ITT5002	Cryptography and Network Security	Theory	PC	3	0	0	0	3	U18ITI4204
4	U18ITI5203	Mobile and Pervasive Computing	Embedded - Theory & Lab	PC	3	0	2	0	4	U18ITI4204

	The state of the s		Project	1100	0.1					
6 U18	8INI5600	Engineering Clinic V	Embedded - Lab& Project	ES	0	0	4	2	3	-
Ul	8	Open Elective	Theory	PE	3	0	0	0	3	

U18ITI4303

DATABASE MANAGEMENT SYSTEMS

L	T	P	J	C
3	0	0	2	4

COURSE OBJECTIVES:

- To understand the different issues involved in the design and implementation of a
- To study the physical and logical database designs, database and relational modeling
- To understand and use data manipulation language to query, update, and manage a
- To develop an understanding of essential DBMS concepts such as: database security,
- To design and build a simple database system and demonstrate competence with the fundamental tasks involved with modeling, designing, and implementing a DBMS

COURSE OUTCOMES:

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

Outline an ER model for a defined problem

Explain the basic concepts of query processing and query optimization CO₂ **CO3**

Describe the concepts of transaction and storage management. **CO4**

Explain the basic concepts of database security and NoSQL CO5 Design a database for a given problem.

Develop an RDBMS application CO6

Pre-requisites:

Nil

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- 1. Continuous Assessment Test I, II (Theory component)
- 2. Assignment, Group Presentation (Theory component)
- 3. Project report (Project Component)
- 4. Project Review and Presentation (Project Component)

Indirect

1. Course-end survey

THEORY COMPONENT CONTENTS

9 Hours INTRODUCTION

Database system Architecture: Data Abstraction - Data Independence - Data Definition Language - Data Manipulation Language.

Data Models: E-R model - network model - relational and object oriented data models integrity constraints - data manipulation operations.

DATABASE DESIGN

9 Hours

Relational query languages: Relational algebra, Tuple and domain relational calculus, SQL3, DDL and DMK constructs, Open source and Commercial DBMS - MYSQL, ORACLE, DB2, SQL server.

Relational Database Design: Domain and data dependency - Armstrong's axioms - Normal forms - Dependency preservation - Lossless design.

DATA STORAGE AND QUERYING

9 Hours

Data Storage: Overview of Physical Storage Media - RAID - File Organization Organization of Records in Files - Data Dictionary Storage.

Data Indexing and Hashing: Basic Concepts - Ordered Indices - B+ Tree Index Files -Multiple Key Access - Static and Dynamic Hashing.

Query Processing: Evaluation of relational algebra expressions - Query equivalence -Join Strategies - Query optimization algorithms.

TRANSACTION MANAGEMENT

9 Hours

Transaction processing: Transaction Concept - Transaction Model - ACID property Serializability.

Concurrency Control: Lock Based Protocols - Time Stamped Based Protocols - Deadlock Handling.

Recovery System: Failure Classification - Storage - Log Based Recovery - Shadow Paging.

ADVANCED TOPICS

9 Hours

Database Security: Authentication - Authorization and access control - DAC, MAC and RBAC models - Intrusion detection - SQL injection.

NoSQL: Working with Column oriented Databases - Hbase distributed storage architecture - Document store internals - Understanding Key-Value Stores in Memcache and Redis -Eventually consistent Non-Relational Databases - Performing CRUD operations: Creating Records, Accessing Data, updating and deleting Data

Theory: 45 Tutorial: 0 Practical: 0 Project: 0 Total: 45 Hours

REFERENCES:

1. Abraham Silberschatz, Henry Korth, and S. Sudarshan, Database System Concepts, Sixth edition, McGraw-Hill.2011.

2. R. Elmasri and S. Navathe, Fundamentals of Database Systems, Sixth Edition,

Pearson Education, 2011

- 3. Thomas M. Connolly and Carolyn E. Begg, "Database Systems A Practical Approach to Design, Implementation, and Management", fifth edition, Pearson Education, 2010.
- 4. C.J.Date, A. Kannan and S. Swamynathan, "An Introduction to Database Systems", Eighth Edition, Pearson Education, 2006.
- 5. Tiwari, Shashank. Professional NoSQL. John Wiley & Sons, 2011.(Unit V)

Online Courses and Video Lectures:

1. http://nptel.ac.in

PROJECT COMPONENTS:

LIST OF EXPERIMENTS

- 1. DDL and DML commands
- 2. Transaction control commands and aggregate functions
- 3. Joins and Nested Queries
- 4. Constraints and Views
- 5. High level programming language extensions (Control structures, Procedures and Functions).
- 6. Cursors and Triggers
- 7. Embedded SQL
- 8. Sample projects like
 - i. Hospital Management
 - ii. Railway Ticket Reservation
 - iii. Student Mark List Processing
 - iv. Employee Pay Roll Processing
 - v. Inventory Control

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

U18ITI5304

SOFTWARE ENGINEERING

COURSE OBJECTIVES:

- Knowledge of basic SW engineering methods and practices, and their appropriate application.
- Describe software engineering layered technology and Process frame work.
- A general understanding of software process models such as the waterfall and evolutionary models.

COURSE OUTCOMES:

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

- CO1 Apply software engineering principles and techniques
- CO2 Translate end-user requirements in to software requirements
- CO3 Develop, maintain and evaluate large-scale software systems
- CO4 Implement an efficient, reliable, robust and cost-effective software solutions
- CO5 Identify software project planning & Management activities
- CO6 Model a simple application following software engineering principles.

Pre-requisite: Nil

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COURSE ASSESSMENT METHODS:

Direct

- 1. Continuous Assessment Test I, II (Theory component)
- 2. Assignment, Group Presentation (Theory component)
- 3. End Semester Examination (Theory)
- 4. Project report (Project Component)
- 5. Project Review and Presentation (Project Component)

Indirect

1. Course-end survey

THEORY COMPONENT CONTENTS

9 Hours

Software Engineering Discipline, Software, Generic vs. Custom-made software productsdistinctive characteristics of software products. Software Development Models: Life cycle models-Linear ,Sequential, Evolutionary, Unified models, Agile development -Agile Manifesto and Principles, Overview of Scrum, Extreme Programming, Feature Driven development, Lean Software Development, Design and development practices in Agile projects, Test Driven Development, Continuous Integration, Refactoring, Pair Programming, Simple Design, User Stories, Agile Testing, Case study in agile processing model.

REQUIREMENTS ENGINEERING

9 Hours

Classification of Requirements-System Requirements and Software Requirements, Functional and Non-Functional requirements, Requirement Engineering Tasks.

System Models: Domain Analysis and Modeling, Data Models, Functional Models-Structured Analysis Model, Object Oriented Models- Cloud, State, Use Case Models, Sequence and Activity diagrams, Relationship among the Object Oriented Models, Building Object Oriented Analysis Models

SOFTWARE DESIGN AND IMPLEMENTATION

9 Hours

Architectural Design-Decomposition strategy, Partitions and Layers, Structured System Design-Use of Heuristics for Design Refinements, Object-Oriented Design- User Interface Design-Reusable Components, Patterns, Frame works, Coding - Choice of Programming Language, **Coding Standards**

SOFTWARE TESTING

9 Hours

Software Testing: Conventional Testing and SDLC Testing, Formal Technical Reviews, Walkthroughs, Inspections, Black-Box vs. Glass-Box Testing, Testing Strategies, Quality Dimensions, Process Quality and Product Quality, Quality Assurance Planning, Quality Measurements, Software Configuration Management.

SOFTWARE PROJECT MANAGEMENT

9 Hours

Software Projects, Project Feasibility Study, Project Planning, Project Organization, Estimation of Project Effort-Measuring Software Attributes and Productivity, COCOMO for Effort Estimation. Risk Management, Project Scheduling, Measurement during Software Projects. Software Maintenance: Planning for Maintenance, maintenance Activities, Reengineering

Total hours:45 Project: 0 Practical: 0 Tutorial: 0 Theory: 45

REFERENCES:

- 1. R.S. Pressman, "Software Engineering A Practitioner's Approach", Eighth edition, McGraw Hill International Edition, 2014.
- 2. Stephen Schach, "Software Engineering", Seventh edition, TMH, New Delhi, 2007.
- 3. PankajJalote, "An Integrated Approach to Software Engineering", Third edition, NarosaPublishing House, 2005.
- 4. M.Blaha and J.Rumbaugh, "Object Oriented Modeling and Design with UML", Second edition, Prentice-Hall India, 2006.
- 5. I Sommerville, "Software Engineering", Seventh edition, Pearson Education, 2004
- 6. "Agile Software Development with Scrum"By Ken Schawber, Mike Beedle, Publisher: Pearson

7. "Agile Testing: A Practical Guide for Testers and Agile Teams", By Lisa Crispin, Janet Gregory, Publisher: Addison Wesley

PROJECT COMPONENT: Make use of tools like Trello, DevOps List of Projects

- 1. A Car Rental System
- 2. Accounts Management Software
- 3. Airline Reservation System
- 4. Army Management System
- 5. ATM System
- 6. Auto Repair Shop Management System
- 7. Automotive Store Management System
- 8. Banking System
- 9. Bus Ticket Reservation
- 10. Cafeteria Ordering System
- 11. Car Insurance System
- 12. Clothing Store Management
- 13. College Management System
- 14. Ebook Shopping
- 15. Enterprise Resource Planning System
- 16. Event Organizing, Planning and Management System
- 17. Gym Workout Application
- 18. Hospital Management System
- 19. Hostel Accommodation System
- 20. Hotel Management System

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





Department of Management Studies

AY: 2018-19

Date: 25.06.2018

Action taken report -Student Feedback

S.No	7 thai y sis	Action taken report
1.	Composition between Major and Minor courses must revisit.	Since this is the suggestion from all quarters, this analysis shall be considered in the forthcoming BoS
2.	Curriculum design is not industry oriented fully.	Additional short courses in Lean Six Sigma and other allied domains are revisited.
3.	Courses on Social Media to be offered .	Two credits and extra one credit courses on Social media are to be implemented.
4.	Workshops and seminars from industry experts are to be increased and added to the curriculum	Full time workshop mode for quantitative courses are to be discussed and implemented

Prepared By,

BoS Coordinator

Approved By,

BoS Chairman

Proof of Action Taken

1. Revised major & minor course concept

CBCS Based Curriculum & relooking into Major & Minor specializations

2. Credit System

Choice Based Credit System (CBCS) is followed which provides choice for students to select from the prescribed courses and also Open Electives. The CBCS provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. It offers a 'cafeteria' approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning.

2.1 Credit Hours

Under the CBCS of UGC guidelines, the requirement for awarding a degree is prescribed in terms of number of credits to be completed by the students. Credit is a unit by which the course work is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of lecture/ practice and two hours of field project per week. One credit hour is equal to 60 minutes. A maximum of 20% of the total credit hours can be earned through self-learning or MOOC.

- Lecture Credit Hours: The term 'lecture' covers everything from the traditional model, where a faculty introduces concepts and methods to a group of students, to approaches that might be much more interactive. It could also involve a variety of contributors, and make use of a range of media and technologies. Lectures are assumed, in general, to involve larger groups of but size will vary depending upon the nature of what is being taught, the medium, the size of the overall student cohort, and practical concerns.
- Practice Credit Hours: Application/ Project Based Learning will be included in Practice credit hours. Examples are wide ranging and could include presentations, interview skills, tutorials, cases, aptitude building, group discussions, soft skill sessions, games, activities, field surveys and studies which are integrated with the lecture hours. Examples of fieldwork might include survey work and other forms of data collection, excavations and explorations through visits to a business or industrial site. The work might be unsupervised or supervised, and supervision could be provided by faculty. Some fieldwork may be conducted virtually. Fieldwork might be conducted in groups of various sizes, or by individuals, depending on the nature of the work involved. Tests, assessments and exams will be included in Practice credit hours.
- Project Credit Hours: Project hours will include Dissertation/Project Supervision hours would typically include preparation/ planning, hours spent in the field or on actual project, meetings & discussions with a supervisors and preparation of report and presentation report.
- Independent Learning Credit Hours: Credit hours associated with this type of instruction will be assigned credit depending upon the amount of activity associated with the course, faculty supervision, and students outside work activity. Usually the credits awarded will be same as the taught course.

Contact Period per week	Credits
One Lecture/ Practice session/ week (Lecture, Tutorial, problem solving, case studies, activities, Games, presentations, field learning, desk research, skill development)	1
Two Project sessions/ week (Project, Industry/ Social Immersions). Includes preparatory, on field and Report/ Presentation Preparation)	1

*Indicative: 15 weeks/ semester; One session is equal to 60 minutes

2.2 Minimum Credits to be Earned

The total number of credits a student earns during the four semesters of study period is called the Total credits. A Student must earn minimum of 100 credits for successful completion of the MBA program. Further, the student has to meet the course and credit distribution also as specified below. Credit flexibility is given in each semester for fast and slow learners. A maximum of 20% of the total credits can be earned through online courses by SWAYAM / NPTEL / International Universities.

2.3 Earning Extra Credits

A student may earn extra credits of up to a maximum of 115 credits. These course/ (s) can be taken in any semester through self study / enroll in the course if offered. "Extra" courses are ones that do not count for degree credit. Such courses appear on a student's permanent academic record with the final course mark, and are noted as "EXT", but do not count as accumulated degree credits and are not included in calculating a student's Grade Point Average. Extra Credits may be earned either through the courses offered in the MBA program or the Flexible and Comprehensive Learning Framework (FCLF) offered by KCT.

2.4 Types of Courses & Credit Distribution

Several types of courses are offered during the MBA program to build a holistic knowledge and skill set.

No	Туре	Description Description	Mini Credits
1	Foundation	Course at a basic level, preparing students for more advanced study	08
2	Core	Course, which is fundamental for the program and should be mandatorily studied	40
3	Electives	Electives allow students to tailor their studies to their specific career goals and interests through specializations	24
4	Project	Course involving application of knowledge in solving / analyzing /practicing/ exploring real life business situations in the field for a considerable period of time	18
5	Open Electives	Course that enriches and presents divergent perspectives to career and life - which are open to all students from different specializations	10
			100

2.4.3 Concentration. Concentration is the area of specialization, which allows the student to specialize in an area of his/her choice based on her/his career interest. The concentrations offered are Analytics and Systems, Entrepreneurship, Finance, Human Resource, Marketing, Operations. In the concentration of his/her choice, the students can choose from the courses offered and a minimum of 24 credits will have to be earned in the area of concentration. In addition the Internship can also be carried out in the concentration area. Students specializing in entrepreneurship will be free to choose courses across specializations to strengthen the entrepreneurial aspirations

2. Social media specialization courses offered Marketing Electives

		Course Tible		Assessment	
S.No Course Code		Course Title	Credits	CAM	EoS
1	P17BAEEM18	Product and Services Management	4	50	50
2	P17BAEEM02	Global Marketing Management	4	50	50
3	P17BAEEM03	Retail Management	4	50	50
4	P17BAEEM04	Channel Management	4	50	50
5	P17BAEEM05	Brand Management	4	50	50
6	P17BAEEM06	Digital Marketing	3	50	50
7	P17BAEEM07	Marketing Metrics and Analytics	4	50	50
8	P17BAEEM08	Retail Sales Metrics and Analytics	4	50	50
9	P17BAECM09	E-CRM	1	50	-
10	P17BAEEM10	Consumer behaviour	4	50	50
11	P17BAECM11	Creative Writing for Media	2	50	-
12	P17BAEEM12	Integrated Marketing Communication	4	50	50
13	P17BAEEM19	Professional Selling and Sales Management	4	50	50
14	P17BAEEM14	Pricing Strategies	4	50	50
15	P17BAEEM20	Industrial Marketing	4	50	50
16	P17BAEPM16	Sponsorship and Event Management	1	50	-
17	P17BAEPM17	Social Media Selling	2	50	-

3. List of Guest Speakers

List of Guest Faculty (2019- 20)

N o	Date	Guest Faculty Name	Designation and university/Industry	Topic
1	August 26, 2019	Senthil Kumar KS	Entrepreneurship Advisor	Innovation and Entrepreneurship – Case Study
2	September 16, 2019	Ravish C K	strategist and Talent Adviser to Top Management of Progressive Organizations	Diffusion of Innovation through Change
3	September 6, 2019	Padmasri	Vice President, IA Digital ABB, Bengaluru	Above & Beyond
4	October 18 & 24, 2019	R S Mani,	Partner V Lamp Academy- Ex Banker	Risk - Return Analysis of Consumer Loans and Customer Profitability Analysis
5	October 4th & 9th, 2019	S Laskhmanan	Partner V Lamp Academy- Ex Banker	Credit Lending - Analysis of Financial Statements and Cash Flow Analysis
6	November 8, 2019	Jamal Mustafa	Director Mastro Lee, Engineering & Management Consultant, Coimbatore	Industry 4.0

7	November 21, 2019	r G. Manohar	Head - Watch Case Plant, Titan Company Limited, Coimbatore	Emerging Trends in PPC for Productivity Enhancement
9	December 201		Team Leader - Customer Service, Amazon	e-Commerce as a Channel for Business Growth - Amazon Perspective
0	Decembe 11, 201		CEO – Audi and Harley Davidson Coimbatore	Global Automobile Industry - Current Trends and Emerging Strategies
1 1 1	Decembe 17, 201	9 Kirubanatesa	n Project Manager, Cognizant	Project Management Skills for Career Development
2	Decembe 20, 201		Principal Consultant, Seeding Business Solutions, Chennai	Data Driven Business Decisions
1 3	February 28,2020	Venkatesh Srinivasan B. Rajendran Thyagarajan	Chief Executive, Association of Mutual Funds of India Chief General Manager, Securities and Exchange Board of India Chief Executive, Stratadigm	Smart Investing - Mutual Fund Investing
1 4	March 16 2020	0	Raghavendra	
5	April 4, 2020	Gokul C	Executive Sales ,Hindustan Coca Cola Beverages	FMCG Sales-An Integrated Approach
1	April 11, 2020		CEO, Prezantim solutions	Ideation and seeking opportunities
7	April 12, 2020		retired bank manager	Asset Liability Management
1 8	April 16, 2020		MD, Duraisingh Super market	Family Dynamics
9	April 19, 2020		Agriculturist	Natural Farming
0	April 22, 2020	E.Manikandan S.Singaram	CDO, Colgate Palmolive India Ltd	Irrefutable Law in FMCG sales
2	April 25, 2020	Aneesh Kumar	Marketing Manager, ATS ELGI	Branding for Industrial products
2	April 27, 2020	Dr. Gowthaman Ramasamy,	VP, Kulitvate.in	Permaculture - Sustainable Farming
2	April 30, 2020	Soundarajan	Head- Learning and Development,Elgi Eqipuments	HR initiatives at L & D
2	May 1, 2020	Raguraman	Asha Counselling	Introduction to NLP
	May 1, 2020	Mathu Bharathi	Advocate	IPR & GST acts - an Overview
	May 7, 2020	Soudhakar Elumalai	Senior Data Scientist consultant- SAP, Bangalore	Applications of Artificial Intelligence (AI) in Marketing
	May 9, 2020	Gowtham.D,	Authorised Person, Zerodha	Mutual Funds: Tax Planning using Mutual Funds

2	May 9, 2020	Mr. Maria Antony Juderaj,	Manager- HR, ELGi Equipments limited	Training Evaluation- Kirkpatrick and Jack Phillips Model
2	May 9, 2020	Vijayalakshmi	Associate Vice President HR	Role of HR Pre and Post Lockdown
3	May 13, 2020	Mr Annamalai,	Chairman Annamalai Capital	Covid 19 impact on Financial markets
3	May 14, 2020	Dr Suresh Kumar	Managing Partner, Peoplecraft	Factoring- Bank Perspective
3	May 15, 2020	Annamalai	Chairman Annamalai Capital	Portfolio revision
3	May 16, 2020	Annamalai	Chairman Annamalai Capital	Buying and Selling securities
3 4	May 18, 2020	KS Raguram	GM-Quality, Roots Industries	Heijunka
3 5	May 21, 2020	H.Vamana Moorthy	Senior Manager, SCM, Timken India Limited,Bangalore	Supply Chain Practices in Bearing Industry



Department of Aeronautical Engineering

AY: 2018-19 Date: 15.04.2019

Action taken report -Student Feedback

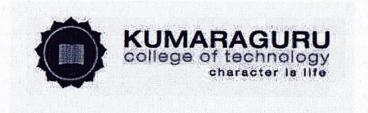
S.No	Analysis	Action taken report
1.	Case Studies related to conventional	Will be considered for next revision
	aircraft systems and its functioning can be	
	introduced as a separate topic in 'Aircraft	
	Systems and Instruments'	
2.	More number of courses are in the fifth	Will be considered for next revision
	semester.	

Prepared By,

BoS Coordinator

Approved By,

BoS Chairman



Department of Textile Technology

AY: 2018-19

Date: 15.04.2019

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1.	In labs proto type machine can be installed	Proto type machines and Cut model machine installed in lab
. 2.	Grouping of elective as per domain can be done	Professional electives grouped according to domain

Approved by

Dr.Bharathi Dhurai

BoS Chairperson



Department of Textile Technology

AY: 2018-19 Date: 15.04.2019

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1.	In labs proto type machine can be installed	Proto type machines and Cut model machine installed in lab
2.	Grouping of elective as per domain can be done	Professional electives grouped according to domain

Proof Proto type machines and Cut model machine installed in lab



AUTO CONER





Cut model drafting

Professional electives grouped according to domain

ELECTIVE I					
Code No.	Course		T	P	C
U14TX <i>T</i> E51	High Performance Fibres 3		0	0	3
U14TXTE52	Maintenance Management in Textile Mills	3	0	0	3
U14TXTE53	Pattern Making and Grading	3	0	0	3
	ELECTIVE II				
U14TX <i>T</i> E61	Instrumental Analysis of Textiles and	3	0	0	3
	Chemicals				
U14TX <i>T</i> E62	Textile Composites	3	0	0	3
U14TXTE63	Garment Wet Processing	3	0	0	3
	ELECTIVE III				
U14TX <i>T</i> E71	Medical Textiles	3	0	0	3
U14TX <i>T</i> E72	Clothing Science	3	0	0	3
U14TX <i>T</i> E73			0	0	3
	ELECTIVE IV				
U14TX <i>T</i> E74	U14TXTE74 Apparel Production Planning and Control		0	0	3
U14TXTE75	Entrepreneurship Development	3	0	0	3
U14TX <i>T</i> E76	Statistical Application in Textile Engineering	3	0	0	3
ELECTIVE V					
U14TX <i>T</i> E81	U14TXTE81 Industrial Engineering in Textile Industry		0	0	3
U14TXTE82 Project Preparation, Appraisal and		3	3 0	0	3
Implementation				Ľ	
U14TXTE3 Environmental Management in Textile Industry		y 3	0	0	3
ELECTIVE VI					
		L	T	P	C
U14GST002	1 0 001 200010 1710110 2011		0	0	3
U14GS <i>T</i> 004	4GST004 Operations Research 3		0	0	3

Code No.	Course		T	P	C
U14GS <i>T</i> 002	Total Quality Management		0	0	3
U14GS <i>T</i> 004	Operations Research		0	0	3
U14GST005	Engineering Economics and Financial		0	0	3
	Management				

ELECTIVE VII

U14MCE502	Textile Mechatronics	3	0	0	3
U14MCE603	Energy Conservation and Audit	3	0	0	3
		3	0	0	3



8



Department of Automobile Engineering

AY: 2018-19

Date: 15.04.2019

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1	Latest books are to be added in references in all courses.	Latest books are included in Syllabus and adequate books are made available in Central library as well as in Department library.
2	More automotive electronics courses to be added.	Added with sponsored lab activities.

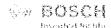
Prepared By,

BoS Coordinator

Approved By,

BoS Chairman





KUMARAGURU COLLEGE OF TECHNOLOGY BOSCH CENTRE FOR AUTOMOTIVE ELECTRONICS

Penered by Infineau

Date: 01.04.2021

BOSCH CENTRE

Robert Bosch Engineering and Badoor, Sobalida Presse Limited (1818). 21 Educational College of Technology have executed Memorization of Understanding on 24th October 2016 which has been recovered on 24th Comber 2019.

Activity and Achievement

- Conduced the shift development or autorissive embedded system in the year of 2019-1016.
- The department of automobile Engineering, open elective course on Deriga of Automobile electrode counted unit in the year of 2020-2021.
- Development of the matter speed controller application (2020-2021).

Schoole of Activities Planned:

- The latertholife department going offer open elective electron on Design of Antenactive electronic record 2021-2022.
- 2. Planning to conductions week FDP pergram on Electric relicle systems 2022-2023

2770	Altitati	
2021	Prototyping	Expert team will
	Support	support Protocype
2023	Product Design	4 Support on
1	Support	Product Design



Department of Civil Engineering

AY: 2018-19

15.04.2019

Action taken report - Student Feedback

S.No	Analysis	Action taken report
1.	Some courses needs to be reshuffled in the semester offered.	Curriculum changes are recommended
2.	Syllabus coverage has to be in par with the expectations in competitive exams (GATE/IES/TNPSC)	Surveying, Irrigation and water Resource Management Syllabus content are mapped with those in competitive exams
3.	Tutorial hours are needed for analytical courses	Recommended for implementation during curriculum revision

Prepared by,

P.DPS

BoS Coordinator

Approved by,

BoS Chairman

		Semes	ster III							D
S.No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	С	Pre- requisite
1	U18MAT3101	Partial Differential Equations and Transforms	Theory	BS	3	1	0	0	4	Nil
2	U18CEI3201	Solid Mechanics	Embedded - Theory & Lab	ES	2	1	2	0	4	Nil
3	U18CEI3202	Engineering Survey	Embedded - Theory & Lab	PC	3	0	2	0	4	Nil
4	U18CEI3203	Building Materials and Construction	Embedded - Theory & Lab	PC	3	0	2	0	4	Nil
5	U18CET3104	Fluid Mechanics	Theory	ES	3	0	0	0	3	Nil
6	U18CER3505	Building Planning and Drawing	Lab	BS	0	0	2	0	1	Nil
7	U18INI3600	Engineering Clinics III	Practical & Project	ES	0	0	4	2	3	Nil
						Tota	al Cre	dits	23	
Total Contact Hours/week 3										

		Semes	ter IV							Pre-
S.No	Course code	Course Title	Course Mode	СТ	L	T	P	J	С	requisite
1	U18MAT4101	Numerical Methods and Probability	Theory	BS	3	1	0	0	4	Nil
2	U18CEI4201	Applied Hydraulics and Hydraulic Machinery	Embedded - Theory & Lab	PC	3	0	2	0	4	U18CET 3104
3	U18CEI4202	Highway and Traffic Engineering	Embedded - Theory & Lab	PC	3	0	2	0	4	Nil
4	U <mark>18CEI4203</mark>	Remote Sensing and Geographic Information Systems	Embedded - Theory & Lab	PC	2	0	2	0	3	Nil
5	U18CET4004	Strength of Materials	Theory	PC	3	0	0	0	3	U18CEI3 201
6	U18INI4600	Engineering Clinics -IV	Practical & Project	ES	0	0	4	2	3	Nil
						Tota	al Cre	dits	21	
			T	otal C	onta	ct Hou	ırs/w	eek	27	

Signature of the Chairman BOS/Civil Engineering

		Seme	ester V							70
S.No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	С	Pre- requisite
1.	U18MBT5000	Total Quality Management	Theory	HS	3	0	0	0	3	Nil
2	U18CEI5201	Environmental Engineering	Embedded - Theory & Lab	PC	3	0	2	0	4	Nil
3	U18CEI5202	Soil Mechanics	Embedded - Theory & Lab	PC	3	0	2	0	4	Nil
4	U18CET5103	Structural Analysis	Theory	PC	3	1	0	0	4	U18CET 4004
5	U18	Open Elective I	Theory	OE	3	0	0	0	3	Nil
6	U18INI5600	Engineering Clinics -V	Practical & Project	ES	0	0	4	2	3	Nil
7	U18CEP5604	Survey Camp*	Project	PC	0	0	0	0	1	U18CEI3 202
						Tota	al Cre	dits	22	
140.1			Т	otal C	onta	t Hou	ırs/w	eek	25	

^{*10} days survey camp during the previous summer vacation

		Semes	ter VI							-
S.No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	С	Pre- requisite
1	U18CEI6201	Design of Masonry and Reinforced Concrete Elements	Embedded - Theory & Lab	PC	3	0	2	0	4	U18CEI3 201
2	U18CEI6202	Construction Project Management	Embedded - Theory & Lab	PC	3	0	2	0	4	Nil
3	U18CET6003	Foundation Engineering	Theory	PC	3	0	0	0	3	U18CEI5 202
4	U18CET6004	Design of Steel Structures	Theory	PC	3	0	0	0	3	U18CEI3 201
5	U18CEE	Professional Elective-I	Theory	PE	3	0	0	0	3	Nil
6	U18	Open Elective II	Theory	OE	3	0	0	0	3	Nil
7	U18CEP6705	Inplant Training*	Project	PC	0	0	0	0	1	Nil
						Tota	al Cre	dits	21	
			T	otal C	onta	t Hou	ırs/w	eek	22	

^{*2} weeks in-plant training during the previous winter vacation.

Signature of the Chairman BOS/Civil Engineering

		Semest	ter VII							Dwo
S.No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	С	Pre- requisite
1	U18CET7001	Estimation Costing & Valuation	Theory	PC	3	0	0	0	3	Nil
2	U18CET7002	Irrigation and Water Resource Management	Theory	PC	3	0	0	0	3	Nil
3	U18CEE	Professional Elective-II	Theory	PE	3	0	0	0	3	Nil
4	U18CEE	Professional Elective-III	Theory	PE	3	0	0	0	3	Nil
5	U18CEE	Professional Elective-IV	Theory	HS	3	0	0	0	3	Nil
6	U18CEP7703	Project Phase-I	Project	P W	0	0	0	6	3	Nil
			•			Tota	al Cre	dits	18	
			Т	otal C	onta	ct Hou	ırs/w	eek	21	

		Semest	er VIII						
S.No	Course code	Course Title	Course Mode	СТ	L	Т	P	J	С
1	U18CEP8701	Project Phase-II	Project	P W	0	0	0	2 4	12
						Tota	al Cre	dits	12
			Т	otal C	ontac	ct Hou	ırs/w	eek	24

Total Credits 157

List of Mandatory courses

		Dist of Manag	tory courses		
S.No	Couse Code	Course Title	Course Mode	СТ	Sem
1	U18VEP1501	Human Excellence- Personal Values	Lab	HS	1
2	U18VEP2502	Human Excellence- Interpersonal Values	Lab	HS	2
3	U18VEP3503	Human Excellence- Family Values	Lab	HS	3
4	U18VEP4504	Human Excellence- Professional Values	Lab	HS	4

Signature of the Chairman BOS/Civil Engineering



Department of Computer Science and Engineering

AY: 2018-19

Date:15.04.2019

Action Taken Report -Student Feedback

S.No	Analysis	Action Taken Report
1.	Students suggested to include courses relating to industry need and emerging technologies	Program elective list in the curriculum is updated with the latest trends and industry courses like Blockchain, Salesforce etc.,
2.	Java course can be offered as a separate course	R17 curriculum contains Java as a separate core course (U17CSI3202- Object Oriented Programming)

Prepared By

(Feedback/BoS Coordinator)

CDr. D. Chandrakala)

Approved By

(Signature of Bos Chairman)

CDr. J. Cynthia)
Protessor & Head

Department of

Computer Science and Engineering Kumaraguru College of Technology

COIMBATORE-641 006, INDIA

U17CSE0014

BLOCKCHAIN TECHNOLOGY AND APPLICATIONS

L	T	P	J	C
3	0	0	0	3

COURSE OUTCOMES

AFTER SUCCESSFUL COMPLETION OF THIS COURSE, THE STUDENTS SHOULD BE ABLE TO

CO1:	Understand emerging abstract models for Blockchain Technology (K2)
CO2:	Discover the secure and efficient transactions with crypto-currencies (K4)
CO3:	Experiment with cryptocurrency trading and crypto exchanges (K3)
CO4:	Develop private blockchain environment and develop a smart contract on ethereum (K3,S2)
CO5:	Build the hyperledger architecture and the consensus mechanism applied in the hyperledger (K5,S2)

Pre-requisites: Nil

							CO/	PO MA	PPINC	3			Take Line		
			(S/N	M/W in	dicates	strength	of cor	relation) S-	Strong, N	1-Mediu	m, W-W	eak		
COs						PR	OGRA	MME	OUTC	OMES (POs)				385
COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	S	M		М						M		М	DY 1950	The second	
CO2	S					M				M		M	М		
CO3	S	M	M		M	М			Heg. (M		M	М		M
CO4	M	S	S		М							М			
CO5	M	S	S		М	Altr						М			

COURSE ASSESSMENT METHODS

DIRECT

- 4. Continuous Assessment Test I, II
- 5. Assignment, Project
- 6. End Semester Examination

INDIRECT

2. Course-end survey

THEORY COMPONENT CONTENTS

BLOCKCHAIN REVOLUTION AND DESIGN PRINCIPLES

(10 hours)

Blockchain- An Introduction, Distinction between databases and blockchain, Centralized Registries vs. Distributed Ledgers, Public vs. Private Ledgers, Bitcoin & Blockchain, Blockchain Structure and operations, Consensus Algorithms & Types- Proof of work, proof of stake, Byzantine Fault Tolerance.

Distributed networks- Distributed Applications (DApps) - Web 3.0 - DApps Ecosystems. Working -Permissioned and permission-less Blockchain - Cross Chain Technologies. - IOT & Blockchain -Digital Disruption in Industries - Banking, Insurance, Supply Chain, Governments, IP rights, Creation of trustless Ecosystems - Block chain as a Service - Open Source Block chains (8 HOURS)

Crypto Currencies - Anonymity and Pseudonymity in Cryptocurrencies, Cryptographic Hash Functions, CRYPTO AND CRYPTOCURRENCIES Hash Pointers and Data Structures, Digital Signatures, Public Keys as Identities, Centralization vs. Decentralization, Distributed Consensus, Consensus without Identity, Incentives and Proof of work, Regulations on Crypto Currencies & exchanges - Downside of non-regulated currencies - crypto Scams (9 HOURS)

- Exchange hacks

Bitcoin blockchain, the challenges, and solutions, Bitcoin Scripts, Applications of Bitcoin Scripts, Bitcoin Blocks, The Bitcoin Network, Limitations & Improvements, How to Store and Use Bitcoins, Hot and Cold Storage, Splitting and Sharing Keys, Online Wallets and Exchanges, Payment Services, Transaction Fees, Currency Exchange Markets (9 hours)

The Ethereum ecosystem, Smart Contract Basics, Processing and deploying smart contracts in Remix IDE, Solidity: contract classes, Data Types & Statements, operators, Data structures, functions, Inheritance, functions, abstract contracts, libraries, Types & optimization of Ether- Global variables-Debugging, Viewing Information about blocks in Blockchain- Developing smart contract on private (9 HOURS)

Blockchain.

Hyperledger fabric, components of Hyperledger Fabric Technology, Develop Hyperledger Blockchain Applications using Composer Framework, Model the Blockchain Applications using Composer modeling language, Intro: Alternative Decentralized Solutions, Interplanetary File System, Hashgraph.

Total: 45 Hours Project: 0 Practical: 0 Tutorial: 0 Theory: 45

REFERENCES

- 1. Mastering Bitcoin: Unlocking Digital Cryptocurrencies, by Andreas M Antonopoulos 2018
- 2. Ethereum: Blockchains, Digital Assets, Smart Contracts, Decentralized Autonomous
- 3. Arvind Narayanan, Joseph Bonneau, Edward Felten, Andrew Miller, and Steven Goldfeder. Bitcoin and cryptocurrency technologies: a comprehensive introduction. Princeton University Press, 2016.

E BOOKS AND ONLINE LEARNING MATERIALS

- 1. https://www.coursera.org/learn/blockchain-basics#syllabus
- 2. https://www.coursera.org/learn/cryptocurrency#syllabus
- 3. https://www.coursera.org/learn/smarter-contracts#syllabus
- 4. https://www.udemy.com/course/hyperledger
- 5. https://www.coursera.org/learn/blockchain-platforms
- 6. https://bitcoinbook.cs.princeton.edu/

S. Drenali. Signature of BOS chairman, CSE

U17CSE0011

DECLARATIVE DEVELOPMENT OF CUSTOMIZED APPLICATIONS

L	T	P	J	C
2	0	0	2	3

COURSE OUTCOMES

AFTER SUCCESSFUL COMPLETION OF THIS COURSE, THE STUDENTS SHOULD BE ABLE TO

CO1:	Design and manage the correct data model based on business requirements.	
CO2:	Define business logic and configure application security.	
CO3:	Visualize the process automation declaratively.	
CO4:	Define and Design an appropriate deployment plan.	
CO5:	Develop customized applications using Lightning Components.	

Pre-requisites: U17CSI3204/Database Management System

(5	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 PO12							ak	CO/PSO MAPPING							
COs	PROGRAMME OUTCOMES (POs)													PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	
CO1	M		M				a Period							M		
CO2	to 10	M	M													
CO3					S											
CO4			M		S									M		
CO5			M		M					The same			M			

COURSE ASSESSMENT METHODS

DIRECT	
1.Online Assessment	
2.Quiz	
INDIRECT	
1.Course-end survey	

THEORY COMPONENT CONTENTS

INTRODUCTION TO DATA MODEL

6+3 Hours

Introduction to Salesforce Architecture-Declarative vs. Programmatic Customizations - Salesforce CRM-Data Modeling-Custom and Standard Objects- Object Relationships- Data Management-Determining an Appropriate Data Model - Building Data Model

Signature of BOS chairman, CSE

S. Dunali.

BUSINESS LOGIC AND APPLICATION SECURITY

6+3 Hours

Constructing business logic – Salesforce Social Features-Lightning Vs Classic UI- - UI Design Best Practices.-Customization Options- Custom Buttons, Links, and Actions- List Views- Record Types- - Constructing business logic - Formula Fields - Roll-up Summary Fields - Validation Rules - Restricting and Extending Object, Record, and Field Access

AUTOMATING BUSINESS PROCESSES

6+3Hours

Business Value of Process Builder-Workflow Vs Process Builder-Converting Workflow into Process Best Practices-Lightning Process Builder- Workflows and Approvals- Automating Business Processes- Custom Lightning Components

DEPLOYING YOUR APP

6+3Hours

Application Lifecycle Management-Change Management Process- Sandboxes-Application Lifecycle Models- Change Sets - Unmanaged and Managed Packages - Determining an Appropriate Deployment Plan

DESIGNING ADVANCED USER INTERFACE COMPONENTS

6+3 Hours

Declarative Customizations- Limits of Declarative tools - Creating Reports - Report Types - Dashboards - Declarative Options for Incorporating Lightning Components - AppExchange Apps

Theory: 30 Tutorial: 0 Practical: 0 Project: 15 Total: 60 Hours

Completion of Project : 15 Hours

REFERENCES

1. https://www.edureka.co/blog/what-is-salesforce/

2. https://www.j2interactive.com/blog/brief-history-salesforce/

- 3. https://www.salesforce.com/blog/2017/08/salesforce-forbes-most-innovative-2017.html
- 4. https://trailhead.salesforce.com/en/academy/classes/dex402-build-platform-apps-using-declarative-development-in-lightning-experience/
- 5. https://trailhead.salesforce.com/en/users/strailhead/trailmixes/prepare-for-your-salesforce-platform-app-builder-credential
- 6. https://trailhead.salesforce.com/en/users/dnadimi/trailmixes/dex-402-kick-off
- 7. https://trailhead.salesforce.com/content/learn/trails/platform-app-builder-certification-prep
- 8. https://trailhead.salesforce.com/modules/data_security
- 9. https://trailhead.salesforce.com/modules/reports_dashboards
- 10. https://trailhead.salesforce.com/modules/lex_customization

U17CSE0013 ADX 201 SALESFORCE ADMINISTRATOR

L	T	P	J	C
2	0	0	2	3

COURSE OUTCOMES

AFTER SUCCESSFUL COMPLETION OF THIS COURSE, THE STUDENTS SHOULD BE ABLE TO

CO1	Understand admin essentials in Lightning Experience.
	Differentiate the building blocks of Salesforce and visualize the CRM in Salesforce lighting platform
CO3	Find out how maintain and import clean data in Lightning platform
CO4	Use Lightning features to create high-value reports and dashboards
CO5	Implement security and Understand how workflow automation complies with Lightning.

Pre-requisites:Nil

(S/	CO/PO MAPPING (S/M/W indicates strength of correlation) S-Strong, M-Medium, W-Weak									CO/PSO MAPPING					
COs	PROGRAMME OUTCOMES (POs)												PSOs		
COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1		M			M							Application.	M		PLETE, LEEPING
CO2	- 11/15/10			Joseph L.	M					M				Pre-Aller	M
CO3			M				H				M	TO DESCRIPTION OF THE PERSON O		M	
CO4			M				#40 h			M					
CO5	M							M							

COURSE ASSESSMENT METHODS

DIRECT	
1.Online Assessment 2. Quiz	
INDIRECT	
1.Course-end survey	

THEORY COMPONENT CONTENTS

CUSTOMIZE AN ORG TO SUPPORT A NEW BUSINESS UNIT

9 Hours

Wh Manage User Access-Manage Chatter-Modify Your Data Model-Configure an Email Letterhead and Template-Automate Your Business Process

DATA SECURITY

9 Hours

Overview of Data Security-Control Access to the Org-Control Access to Objects-Control Access to Fields-Control Access to Records-Create a Role Hierarchy-Define Sharing Rules

REPORTS AND DASHBOARDS FOR LIGHTNING EXPERIENCE

9 Hours

Introduction to Reports and Dashboards in Lightning Experience-Create Reports with the Report Builder-Format Reports-Visualize Your Data with the Lightning Dashboard Builder- Extend Your Reporting Strategy with AppExchange

CREATE REPORT AND DASHBOARDS FOR SALES AND MARKETING MANAGERS

9 Hours

Create Report and Dashboard Folders-Create a Simple Custom Report-Filter Your Reports-Group and Categorize Your Data-Use Summary Formulas in Your Reports-Manage Reported Data-Visualize Your Data

LIGHTNING APP BUILDER

9 Hours

Clean and import account data-Create users and manage access-Create email templates for new marketing needs-Configure UI tools for a new product type-Create reports and dashboards-Manage and apply Chatter tools - Create Your First Page-Add More Components-Add Quick Actions and Activate the App-Test in the Salesforce Mobile App- Get to Know Salesforce Identity- Get To Know Your Salesforce Identity Users-Learn the Language of Identity- Secure Your Users' Identity-Customize Your Login Process with My Domain-Set Up Single Sign-On for Your Internal Users

Total: 45 Hours Project: 0 Practical: 0 Tutorial: 0 Theory:

REFERENCES E BOOKS AND ONLINE LEARNING MATERIALS

- 1. https://trailhead.salesforce.com/credentials/administrator
- 2. https://trailhead.salesforce.com/en/content/learn/modules/lex_implementation_reports_dash boards/lex_implementation_reports_dashboards_overview
- 3. https://trailhead.salesforce.com/en/content/learn/modules/identity_login
- 4. https://trailhead.salesforce.com/en/content/learn/superbadges/superbadge-lex-rd
- 5. https://trailhead.salesforce.com/en/content/learn/superbadges/superbadge_business_speciali st

S. Dunali.

U17CSI3202

OBJECT ORIENTED PROGRAMMING

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 classes, objects, members of a class and the relationships among them for a specific problem.

CO2: Build applications using various types of Inheritance and Interfaces

CO3: Explain the concepts of exception handling and multithreading to develop an application or program.

CO4: Apply the concepts of data abstraction, encapsulation and polymorphism for problem solving.

CO5: Develop solutions to a given problems using collections, files and streams.

CO6: Design, develop, test and debug Java programs using object-oriented principles in conjunction with development tools including integrated development environments

Pre-requisite:NIL

(S/M/W	indica	ates str		of corre) S	-Stron	g, M-N	/ledium	W-We	ak	CO/P	SO Ma	pping
COs	PROGRAMME OUTCOMES (POs)												PSOs		
100 mm 10	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	S	S	M	100	М				M	M	1011	M	M	M	1005
CO2	S	S	M		М				M	M		M	141	101	
CO3	S	S	М		M				M						
CO4	S	S	M		M					M		M			
CO5	S	S	M		M		-		M	M		M			
CO6	S	S	M		M				M	M M		M	M	M	

COURSE ASSESSMENT METHODS

DIRECT

- 1. Continuous Assessment Test I, II (Theory component)
- 2. Assignment; Group Presentation, Project 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 components)

INDIRECT

1. Course-end survey

THEORY COMPONENT CONTENTS

INTRODUCTION TO OBJECT ORIENTED PROGRAMMING AND JAVA

7 Hours

Introduction to OOP- Java Fundamentals -Data Types, Variables, and Arrays - Operators-Control Statements -Classes - Methods - Constructors - Garbage Collection.

10 Hours

INHERITANCE AND EXCEPTION HANDLING Inheritance —Packages and Interfaces - Exception Handling Fundamentals — Java's Built-in Exceptions-Creating new Exception subclasses.

10 Hours

POLYMORPHISM AND MULTITHREADING IN JAVA Polymorphism- Abstract classes and methods-Overloading-Overriding-final methods and classes -Multithreaded programming -The Thread class and the Runnable Interface-Creating multiple threads -Synchronization-Autoboxing, and Annotations (Metadata).

11 Hours

STRING HANDLING AND COLLECTION FRAMEWORK String Constructors-String Operations-Generic classes and methods-The Collection Framework-Collections-List-ArrayList,Linked List,Set-HashSet,LinkedHashSet,Queue-PriorityQueue,Map-HashMap,SortedMap, TreeMap.

7 Hours

Files and streams -Byte Stream-I/O stream, File I/O Stream, ByteArray I/O Stream-Character Stream-File Reader and Writer, Char Array Reader and Writer-Serialization.

Practical: 0	Project: 0	Total: 45 Hours
	Practical: 0	Practical: 0 Project: 0

REFERENCES

- 1. Herbert Schildt, "Java the Complete Reference", Ninth edition Tata McGraw Hills, 2014.
- 2. Paul Deitel and Harvey Deitel, —"Java How to Program (Early Objects)", Tenth Edition, Pearson
- 3. Timothy Budd, —"An Introduction to Object-Oriented Programming", Third Edition, Pearson Education, 2008.
- 4. E.Balaguruswamy, "Programming with Java", Second Edition, TMH, 2009

E BOOKS AND ONLINE LEARNING MATERIALS

1. Herbert Schildt, "Java the Complete Reference", Eighth edition Tata McGraw Hills, 2011.

LAB COMPONENT CONTENTS

30 Hours

LIST OF EXPERIMENTS

- 1. Simple Programs in java using classes and methods.
- 2. Program for User Defined Exception Handling.
- 3. Program for Method Overloading and Method Overriding
 - a) Use the concept of Packages and Interfaces
- 4. Thread Creation
 - a) Using Thread Class and Runnable Interface
 - b) Inter Thread Communication
- 5. Program using inbuilt methods of String class.
- 6. Program using collection framework
 - a) Use the concept of List, Set, Map.
- 7. Program using Input streams and Output streams.
- 8. Program to access and perform various operations in file contents.
- 9. Use case/Project to implement Object oriented concepts using java

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

ONLINE COURSES AND VIDEO LECTURES: https://www.javatpoint.com/java-tutorial



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: 2018 – 2019

Date: 15.04.2019

S.No	Feedback	Action Taken						
1.	System based experiments needs more clarity.	Laboratory handling faculty members were instructed to take concepts in depth.						
2.	Basic concepts in "Analog Circuits" & "Digital Electronics" need to be taught.	Subject handling faculty members were instructed to take care of this issue.						
3.	More of programming languages must be taught other than regular curriculum.	Value added courses will be planned to teac programming languages.						

Prepared By,

BoS Coordinator

Approved By,

BoS Chairman

Proof for Action Taken 1: laboratory handling faculty members were instructed to take concepts in depth.

S.No	Date	Nature of event	Title of event	Duration	Venue	Coordinator	Resource person	Targeted participants
1	25.9.2018	Workshop	Hands on Workshop on MATLAB	3 hours	DSP lab	Ms. Shiji Shajahan	Ms. Shiji Shajahan, AP/ECE	Students
2	29.9.2018,30 /9/18	FDP/Short term course	One credit course	2 days	CoE lab	Karthikeyan R, Karthik S	Steps Knowledge Services Pvt Ltd, Coimbatore	Students

REMEDIAL CLASS SCHEDULE

Batch 2017-2021

Year/Sem: II/III

Date:05.03.2019

S.No	Subject name	Date and Time	Venue		ion wi udents		Total no of students	Faculty In charge And Room nos
	Bank and the second second		14	A	В	C		
1	U17ECI3202 Analog electronics	11.03.2019 3.40 to 4.40 PM	II-A,B,C Respective class rooms	22	23	16	61	Ms.T.Jasper AP/ECE
		18.03.2019 3.40 to 4.40 PM						C-202 Ms.S.Krithika
	-	25.03.2019 3.40 to 4.40 PM						AP/ECE C-201
		30.03.2019 11.00 AM to 1.00 PM	3					
		20.04.2019 2.00 to 4.00 PM						10-9 a . Jon.
2.	U17ECI3203 Digital system design	15.03.2019 1.40 to 2.40 PM	II-A,B,C Respective class rooms	24	23	22	69	Ms.Kalaiselvi AP-II/ECE
		16.03.2019 09.00 AM to 11.00 AM						C-203 Mr.S.M.Chandru
		22.03.2019 1.40 to 2.40 PM						AP/ECE C-202
		29.03.2019 1.40 to 2.40 PM	1					Mr.Timothy AP/ECE
		20.04.2019 09.00AM to 11.00.AM						C-201
3.	U17ECT3101 Signals and Systems	16.03.2019 11.00 AM to 01.00 PM	II-A,B class rooms	28	27	19	74	Prof.T.Vasuki MEC
		30.03.2019 09.00AM to 11.00 AM 2.00 to 4.00 PM						C-203 Ms.Shiji Shahjahan AP/ECE
		20.04.2019 11.00 AM to 01.00 PM						C-202

4.	U17ECT3004 Electro Magnetic Fields	15.04.2019 3.40 to 4.40 PM	II-A Class room	10	15	08	33	Mr.R.Darwin AP-II/ECE C-203
		22.04.2019 3.40 to 4.40 PM			300033			Mr.D. Allin joe AP/ECE C-203
5.	U17ECT3005 Linear Integrated Circuits	01.04.2019 3.40 to 4.40 PM 19.04.2019 1.40 to 2.40 PM 26.04.2019 1.40 to 2.40 PM	II-A and II-B class room	12	18	14	44	Ms.S.Tamil Elakkiya AP/ECE C-202 Ms.K.Jasmine AP/ECE C-203

Etimothy D Paul)
APLECE Quinity

Class Advisors



KUMARAGURU COLLEGE OF TECHNOLOGY COIMBATORE - 641 049

Remedial Class Record

	1000
Branch: ECE	

Section: B

Semester: 1

Test Performance:

Subject: ANAIDE ELECTRONICS

Faculty: Me JASPAR VINTHA SUNDARY

	. 1	Attenda c	ounsel	ainst da ling ses		ass/	Marks of the assignment/ effectiveness of counselling	Signature of the student
Sabarish. T	P	P					and the second	9. Aug.
SARAWYANDT	P	A					4	0:10/
Aravintho kumars	P	P					7	84 4
G. Seloa Bhasathi	P	A					-	G. 8001:
K. MOHAMED YAHYA	P	A·					8	kowi
2. Radhalbishnon	P	A					6	3-8/1
S SOCIALES HIKUMA	21	A	A 253 27				-	July
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100 miles					30 G. S. 2015			
4								
				1,20				

Faculty Director

Course coordinator / HOD /

18/3/19



KUMARAGURU COLLEGE OF TECHNOLOGY COIMBATORE – 641 049

Remedial Class Record

Branch: ECE

Section: A

Semester: //

Test Performance:

Subject: ANALOG ELECTRONICS

Faculty: Ms JASPAR VINTHA

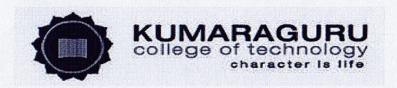
Name	Attendance against date of class/ counselling session						Marks of the assignment/ effectiveness of counselling	Signature of the student
Dikishove	1	A						Dhis
k. Harikumar	1	A				# 1 1 2 SH		KHONK
A Balabrananie	/	A						ALBI
								The state of the

Faculty Director

Course coordinator / HOD /

Proof for Action Taken 3: value added courses will be planned to teach programming languages.

S.N O	Name of the value added courses (with 30 or more contact hours)offered	Year of offeri ng	No. of times offered during the same year	Durati on of course (Hours	Number of students enrolled	Number of Students completing the course	Attendance Proof
1	Value added course for technical Problem solving	2018- 19	1	30	41	41	https://kumaragurudtsteam- my.sharepoint.com/:b:/g/personal/tamilelakkiya_s_ece_k ct_ac_in/EfeP_yH1WvtDihH_LkAxFCgB3M- Ok_0eE1N3tb6i-VH6pA?e=NBB2Rg
2	Summer Technical Training Program on Matlab and design tool	2018- 19	1	30	52	52	https://kumaragurudtsteam- my.sharepoint.com/:b:/g/personal/tamilelakkiya_s_ece_k ct_ac_in/Eb3x-2i6SDVHgmezTO2OgL4BBO1qXhf- A6omO130TYcEGg?e=3r89kS
3	Summer Technical Training Program for Embedded System	2018- 19	1	30	52	52	https://kumaragurudtsteam- my.sharepoint.com/:b:/g/personal/tamilelakkiya_s_ece_k ct_ac_in/EXtEBFBI6CJNnMoa-78m9PwB3QpS- Ma0jlW4jaOhkD3Prg?e=B0oSJw



Department of Electronics & Instrumentation Engineering

AY: 2018-19

15.04.2019

Action taken report - Students Feedback

S.No	Analysis	Action taken report
1.	Suggested to include Embedded protocol in the course U18EII5004 - Communication and networks	Protocol concepts covered in the course U18EII5004 - Industrial Communication and networking
2.	Expressed her views about the learning of DIP course in hands on mode which was very effective.	More such courses will be offered in hands on mode.
3.	To provide core course training for placements	Incorporated

Prepared By,

· serre

BoS Coordinator

Approved By,

Bos Chairman

Proof for ATR point 9

U18EIT5004

INDUSTRIAL COMMUNICATION AND NETWORKING

L	T	P	J	C
3	0	0	0	3

Course Outcomes (CO):

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

CO1: Analyze the fundamentals of communications (K4).

CO2: Examine the principles of selecting and installing telecommunications systems(K4).

CO3: Make use of "best practice" decisions on the best and most cost-effective access options for an industrial network (K4).

CO4: Identify, prevent and troubleshoot industrial communications problems(K3).

CO5: Test the installation and the configuration of a simple Ethernet network(K3).

CO6: Interpret a protocol through simple implementation (K2).

Pre-requisite: -

COs						P	0	Tierle Income					PS	80
	P01	P02	PO3	P04	P05	P06	PO7	P08	P09	PO10	P011	P012	PSO1	PS02
	53	X	KS	83	3	3	3	3	3	5	3	3	` ¾	X
CO1(K4)		S	10000	202.2	alays.	1000			1138	903333	4.20			
CO2(K4)		S	M										M	
CO3(K3)	S	C III S S S		S			A -75		Marsha .		M	M		
CO4(K4)	M			S					Ne S	M				
CO5(K3)	S				M		W							S
CO6 (K2)			Contain.	10 L 10		M		PART EAS	67124				in the	M

Course Assessment Methods:										
	Direct	Indirect								
•	Internal Tests		Course Exit Survey							
	Assignment/Projects/Reports									
•	End semester exams									

Course Content:

BASICS OF COMMUNICATION SYSTEM

2

Hours.Communication, Communication systems, Modulation, Bandwidth Requirement. Channel Capacity, Baud Rate, Data Rate.

MODULATION TECHNIQUES

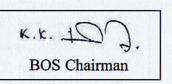
10 Hours

Theory of Amplitude Modulation- Frequency spectrum of AM wave- Representation of AM-Power Relation in the AM wave-Theory of Frequency Modulation- Mathematical Representation of FM- Frequency spectrum of FM wave-Theory of Phase Modulation-Comparison of different modulations-Modulation for Digital signal: Introduction- modulation circuit- demodulation circuit- ASK- FSK- PSK- PWM- PAM- PPM

FUNDAMENTALS OF DATA COMMUNICATIONS

6 Hours

Bit-Bytes and Characters- Communication principle- Communication modes- Synchronous and



asynchronous system- Error detection- Transmission Characteristics- Data coding- UART-Functional Layered Models - OSI reference model- System engineering approach- Input / Output Structures- Control Unit Structure- Protocols- Basics of Network Topology

INDUSTRIAL COMMUNICATIONS STANDARDS AND PROTOCOLS 8 Hours

Serial Communication Standards: Serial data communication interface standards- Balanced and unbalanced transmission lines- RS 232-422-485 standards. Troubleshooting serial data communication circuits- Test equipment- RS 422 Standard- RS 485 Standard- Troubleshooting and testing with RS 485- 20 mA Current loop- GPIB- USB.Controller Area Networks (CAN) protocol

Industrial Protocols: XON/OFF Signaling- Binary Synchronous Protocol (BSC)-HDLC/SDLC protocol- CSMA/CD- CA protocol- OSI implementation for Industrial communications- Industrial control applications: ASCCII-based protocol – ANSI –X 3.28 -2.5.

HART COMMUNICATION PROTOCOL

9 Hours

Architecture - physical- data link- application layer- communication technique- normal and burst mode of communication- benefits of HART. Introduction to Wireless HART

OPEN INDUSTRIAL FIELDBUS AND DEVICENET SYSTEMS

10 Hours

Industrial Ethernet: 10Mbps- 100Mbps Ethernet- Gigabit Ethernet- Industrial Ethernet. **Foundation fieldbus:** Fieldbus requirement- features- advantages- fieldbus components- types- architecture—physical- data link- application layer- system and network management- wiring-segment functionality checking- function block application process.

Profibus: Architecture- OSI-model- PROFIBUS types – PA- DP & FMS and their comparison-Designing PROFIBUS- Network design- Advantages and Applications of PROFIBUS in industries.

Theory Hours: 45

Practical Hours: 0

Total Hours: 465

References Books:

- 1. Kennedy and Devis- Electronic Communication Systems
- 2. John Park, Steve Mackay, Edwin Wright, Practical Data Communications for Instrumentations and Control, 1 st Edition ELSEVIER, 2003.
- 3. Deon Reynders, Steve Mackay, Edwin Wright, Practical Industrial Data Communications, 1 st Edition ELSEVIER, 2005.
- 4. Behrouz A. Forouzan, Data Communications and Networking, 2nd Edition, Mc Grow Hill, 2001
- 5. Lawrence M. Thompson and Tim Shaw, Industrial Data Communications 5th Edition, ISA

List of Open Source Software/learning website:

Learning website: -

- http://nptel.iitm.ac.in/courses.php
- http://ocw.mit.edu
- http://www.electrical-engineering-portal.com
- http://en.wikipedia.org
- https://www.anlog.com
- https://www.protocols.com
- https://www.cse.wustl.edu/~lu/cse521s/Slides/wirelesshart.pdf

K.k. 100.
BOS Chairman

88



Department of Fashion Technology

AY: 2018-19

Action taken report -Student Feedback

Date: 15.04.2019

S.No	Analysis	Action taken report
1.	An introduction to non woven making should be added in weaving course to get knowledge on application of non woven in apparels.	The course U18FTT4001 weaving technology is renamed as fabric formation technology and non-woven basics are added in the syllabus.
2.	Application of fancy yarns and functional yarns can be added in yarn technology	Fancy yarns and functional yarns are added in the course U18FTT3001 yarn technology
3.	To provide more knowledge on designing part, two portfolios should be provided in the curriculum.	Two portfolio labs (U18FTP6505 Portfolio presentation I and U18FTP7503 Portfolio presentation II) are provided in the curriculum.

PreparedBy,

BoS Coordinator

Approved By.

BoS Chairman

Sl.No: 1- U18FTT4001 weaving technology is renamed as fabric formation technology and nonwoven basics are added in the syllabus

*										
		Semest	er IV							D
S.No	Course code	Course Title	Course Mode	CT	L	T	P	J	С	Pre-requisite
1	U18MAT4102	Numerical Methods	Theory and Tutorial	BS	3	1	0	0	4	Nil
2	U18MET4007	Basics of Mechanical Engineering	Theory	ES	3	0	0	0	3	NIL
3	U18FTT4001	Fabric Formation Technology	Theory	PC	3	0	0	0	3	U18FTT1001
4	U18FTT4002	Apparel Machinery and Equipment	Theory	PC	3	0	0	0	3	NIL
5	U18FTI4203	Apparel Design and Development	Embedded - Theory & Lab	PC	3	0	2	0	4	U18FTI3204
6	U18FTI4204	Fabric Structure and Design	Embedded - Theory & Lab	PC	3	0	2	0	4	U18FTT3001
7	U18INI4600	Engineering Clinic IV	Project based course	ES	0	0	4	2	3	Nil
					T	otal	Cre	dits	24	
				Total Cont	act 1	Hou	rs/w	eek	29	

U18FTT4001 FABRIC FORMATION TECHNOLOGY

Course outcomes

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

L	T	P	J	C
3	0	0	0	3

CO	Description	Bloom's
		taxonomy level
CO1	Acquaint with the objectives and acquire knowledge of working principles of machinery used for preparation of yarn for weaving	K2
CO2	Describe the working principle of beam preparatory machines for weaving.	K2
CO3	Acquire knowledge in the selection of sizing ingredients for different fibres.	K4
CO4	Understand the objectives and working principles of shuttle and shuttleless looms	K2
CO5	Develop knowledge in the selection of suitable preparatory processes for weaving	K4
CO6	Acquire knowledge on nonwovens manufacturing techniques and its applications.	K2

Pre Requisite:
1. U18FTT1001 Fibre Science

CO/PO	 ,,,,,,

(S/M/	W indi	cates st	rength o	of corre	lation)	S-S	Strong,	M-Med	lium, W	V-Weak				
COs					Progr	ramme	Outcon	nes(PO	s)				PS	SOs
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	S	S											M	
CO2	S	S											M	
CO3		S											M	W
CO4		S									W	M		
CO5		S	S		S								M	M
CO6		S	S										M	

Course Assessment methods

Direct	Indirect
1. Internal tests	1.Course End Survey
2. Assignment	
3. Group Presentation	
4. End Semester Exam	

COURSE CONTENT

YARN PREPARATION FOR WEAVING

9 Hours

Process Flow-objectives of winding; principles of cheese and cone winding machines - Pirn winding. Concepts in yarn clearing – mechanical, optical and electronic clearers; knotters and splicers; Yarn quality requirements for weaving.

BEAM PREPARATION FOR WEAVING: WARPING AND SIZING 9 Hours

Objectives of warping, material flow in beam warping and creels used in warping machines; sectional warping machines.

Objectives of sizing; sizing materials and recipes used for different types of fibers; sizing machines; control systems used in sizing machine; sizing filament yarns; concept of single end sizing.

SHUTTLE WEAVING 9 Hours

Objectives and working principles—primary, secondary and auxiliary motions, Mechanisms of Tappet, Dobby and Jacquard weaving. Types of Shuttle looms — Handloom, Non-automatic, Semi-automatic and Automatic looms; Drop box loom; Terry loom.

SHUTTLELESS WEAVING

9 Hours

Basic principles of various shuttleless weaving machines – Projectile, Rapier, Air-jet, Water-jet, Multi-phase; productivity and techno-economics of these machines. Computerized fabric inspection, Loom data system.

NONWOVENS 9 Hours

Definition. Raw materials for nonwovens – natural and man-made fibers, binders; classification of nonwovens, manufacturing methods - Needle punching, chemical bonding, spun bonding, thermal bonding, melt-blown process, hydro-entangling. Applications of non-wovens.

Total: 45 Hours

REFERENCES

- 1. Allan Ormerod, Walter S.Sondhelm, Weaving-Technology and Operations, Textile Institute Pub., 1995.
- 2. Lord P.R. and Mohammed, Weaving: Conversion of yarn to fabric, M.H. MerrowPub.CoLtd., U.K.,1998.
- 3. Talukdar, Introduction to winding and warping, MahajanPub. (P)Ltd., 1998.
- 4. Talukdar, Wadekar and Ajgaonkar, Sizing–Materials, methods and machines, 2ndedition, Mahajan Pub. (P) Ltd.,1998.
- 5. Gokarneshan N., Weaving Preparation Technology, Abhishek Pub., 2009
- **6.** Talukdar, SriramuluandAjgaonkar, Weaving–Machines, Mechanisms, Management, Mahajan Pub. (P) Ltd.,1998
- 7. Albrecht. W, Fuchs. H, Kittelmann and Walter, "Nonwoven Fabrics- Raw Materials, Manufacture, Applications, Characteristics, Testing Processes", Wiley-VLH, 2002, Weinheim. ISBN- 3-527-30286-7

OTHER REFERENCES

- 1. Tappet Shedding Mechanism: https://www.youtube.com/watch?v=3aL3dAy2FEM
- 2. Tappet Shedding Mechanism: https://www.youtube.com/watch?v=W5BRDDhR0dI&t=53s
- 3. Jacquard Shedding mechanism: https://www.youtube.com/watch?v=awGjOGo Mis
- 4. Types of weft insertion: https://www.youtube.com/watch?v=s0W0iDj7_hc&t=40s

Sl.No: 2- Fancy yarns and functional yarns are added in the course U18FTT3001 yarn technology

U18FTT3001 YARN TECHNOLOGY

COURSE OUTCOMES

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

CO1	Outline sequentially the processes involved in short staple spinning	K2
CO2	Outline sequentially the processes involved in long staple spinning	K2
CO3	Acquire knowledge on basic principles of advanced spinning systems	K2
CO4	Acquire knowledge on post spinning operations and yarn, package faults	K3
CO5	Outline sequentially the processes involved in the production of sewing threads	K3
CO6	Acquire knowledge on specialityyarns and their production	K2

Pre-requisite courses: U18FTT1001 Fibre science

CO/PO	Mapping		
(S/M/W	indicates strength of correlation)	S-Strong, M-Medium, W-Weak	
COs	Programme	Outcomes(POs)	

	PO	PO1	PO1	PSO	PSO									
	1	2	3	4	5	6	7	8	9	10	1	2	1	2
CO1	M													M
CO2	M													M
CO3	M												M	
CO4	M												S	
CO5	M												M	
CO6	M												S	

Course Assessment methods:

Direct	Indirect
1. Internal tests	Course End Survey
2. Assignment	
3. Group Presentation	
4. End Semester Exam	

Course Content

SHORT STAPLE SPINNING SYSTEM (COTTON):

12Hours

Ginning-objectives, types, suitability and principle of working. Sequence of process in cotton spinning,
ObjectivesandprinciplesofworkingofBlow.
roomCarding,Drawing,Combing,SimplexandRingspinning. Corespunyarnproduction in ringframe.

LONG STAPLESPINNINGSYSTEM (WORSTED):

7 Hours

Sequence of process; objectives and principles of working of Scouring, Drying, Oiling, Dyeing, Blending, Carding, Gilling and Combing, Drawing, Roving and Spinning.

ADVANCED SPINNING SYSTEMS

10 Hours

Basic Principles of Rotor spinning, Air jet spinning and DREF spinning systems. Solo and Compact spinning systems - objectives and principles of working. Comparison of characteristics of yarns from different spinning systems.

POST SPINNING AND YARN QUALITY

7 Hours

Objectives and principles of working of Ring doubler and Two for one twister (TFO)-Single yarn and ply yarn characteristics and their applications.

Yarn quality and characteristics - Yarn faults, imperfections and their identification. Package faults (Cones, cheese and Hanks) and identification.

SEWING THREAD AND SPECIALITYYARNS:

9

Hours

Sewing Thread Manufacture: Fibres used and their characteristics. Essential quality requirements of sewing threads, Sequence of manufacturing process for sewing threads for cotton, polyester and polyester/cotton blends. Speciality Yarns: Fancy yarns, textured yarns and Melange yarns-Types and classifications.

TOTAL: 45 HOURS

REFERENCES

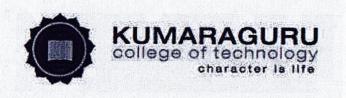
1. Klien, W.G, "The Technology of Short Staple Spinning" The Textile Institute,,

- Manhester,1988(fivevolumes)
- 2. MahendraGowda, R. V, "New Spinning Systems", NCUTE Publication, SecondEdition, 2006
- 3. Joseph.M.L, "EssentialsofTextiles", HoldRienhartWinstonPub.Co., NewYork, 1990
- 4. OxtobyE, "SpunYarnTechnology", ButterworthandCo., London, 1991.
- 5. Corbmann, B.P, "Textiles: Fibreto Fabric", McGraw HillInc., USA, 1996.
- 6. Chellamani, K.P, Chattopadhyay. D, "Yarnsand Technical Textiles" SITRA publication, First Edition, 1999

Sl.No: 3- Two portfolio labs (U18FTP6505 Portfolio presentation I and U18FTP7503 Portfolio presentation II) are provided in the curriculum.

		Semest	er VI							Pre-requisite
S.No	Course code	Course Title	Course Mode	CT	L	T	P	J	С	Fre-requisite
1	U18FTT6001	Apparel Production Planning and Control	Theory	PC	3	0	0	0	3	Nil
2	U18FTT6002	Apparel Merchandising and Cost Management	Theory	PC	3	0	0	0	3	Nil
3	U18FTT6003	Industrial Engineering in Apparel Industry	Theory	PC	3	0	0	0	3	Nil
4	U18FTE	Programme Elective I	Theory	PE	3	0	0	0	3	Nil
5	U18OE	Open Elective II	Theory	OE	3	0	0	0	3	Nil
6	U18FTE	Programme Elective II	Theory	PE	3	0	0	0	3	Nil
7	U18FTP6504	Apparel CAD lab	Lab	PC	0	0	2	0	1	Nil
8	U18FTP6505	Portfolio Presentation I	Lab	PC	0	0	2	0	1	U18FTI4203
Total Credits 20										
			Т	otal Cont	act 1	Hou	rs/v	veek	22	

		Semeste	er VII							D
S.No	Course code	Course Title	Course Mode	CT	L	T	P	J	С	Pre-requisite
1	U18FTT7001	Apparel Brand Management	Theory	PC	3	0	0	0	3	Nil
2	U18FTT7002	Apparel Retail Management	Theory	PC	3	0	0	0	3	Nil
3	U18FTE	Programme Elective III	Theory	PE	3	0	0	0	3	Nil
4	U18FTE	Programme Elective IV	Theory	PE	3	0	0	0	3	Nil
5	U18FTP7503	Portfolio Presentation II	Lab	PC	0	0	2	0	1	U18FTP6505
6	U18FTP7701	Project -Phase I	Project only Course	PW	0	0	0	6	3	Nil
	Total Credits 16							16		
				Total Cont	act 1	Hou	rs/v	veek	20	



Department of Textile Technology

AY: 2018-19 -2

Date: 15.04.2019

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1.		Included in elective
		Course code: U17TXE0014
	Industrial Engineering for Textile industry can be included in elective	Course Name: Industrial Engineering for Textile and Apparel Industry
2.	Clothing comfort related subjects can be	Included in elective
	included in elective	Course code: U17TXE0007
		Course Name: Clothing Science

Approved By,

Dr.J. Srinivasan

BoS Chairman



Department of Textile Technology

AY: 2018-19 -2 Date: 15.04.2019

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1.		Included in elective
		Course code: U17TXE0014
	Industrial Engineering for Textile industry	Course Name: Industrial Engineering for Textile
	can be included in elective	and Apparel Industry
2.	Clothing comfort related subjects can be	Included in elective
	included in elective	Course code: U17TXE0007
		Course Name: Clothing Science

Proof

Included in elective

Course code: U17TXE0014

Course Name: Industrial Engineering for Textile and Apparel Industry

128

U17TXE0014 INDUSTRIAL ENGINEERING FOR TEXTILE AND APPAREL INDUSTRY

L	T	P	J	C
3	0	0	0	3

Course Outcomes (COs)

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

CO1: Discuss the relationship between productivity and work-study.

CO2: Explain the various method study techniques.

CO3: Calculate the standard time by using work measurement techniques.

CO4: Describe the Industrial Engineering concepts in apparel.

CO5: Explain how the work study used in optimization of work load in sewing department of garment unit.

CO6: Elaborate of IE techniques.

			(S/M/W	indicat				s Mapp n)S-Stro		Medium,	W-Wea	k		
COs			Pro	gramır	ie Outc	omes (F	Os) & 1	Prograi	nme Spe	ecific Ou	tcomes	(PSOs)		
	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	PS0 2
CO1	S	M									M		S	
CO2	S	M									M		S	
CO3	S	M									M		S	
CO4	S	M									M		S	
CO5	S	M			M						M		S	
CO6	S	M							S	M	M		S	

Course Assessment methods

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

PRODUCTIVITY AND WORK STUDY PRODUCTIVITY

9 Hours

Productivity in textile and apparel industry: units of productivity - total time to do a job - factors affecting productivity - work content and total time - reducing work content due to the product and process method - reducing ineffective time due to worker and supervision.

Work Study: definition, work-study and productivity - basic procedure of work-study - work study and the worker, supervisor and the management - working condition and the working environment.

METHOD STUDY 9 Hours

Method study: definition and objects of method study – basic procedure, selection of work, Recording, examining, development of method – Textile / Apparel factory lay

Dr.J.Srinivasan

out and movement of workers and material - string diagram – man type flow process chart – multiple activity chart – travel chart – principle of motion economy – classification to movements – two-handed process chart – micro motion study – SIMO chart – Define, installs and maintain improved method.

WORK MEASUREMENT

9 Hours

Work measurement: definition, purpose, procedure and uses – techniques of work measurement – work sampling: need and use time study – definition – basic time study equipment – time study forms – selecting the job, steps in making a time study – breaking the job into elements – sample size, timing card element – stop watch procedure - time study rating – calculation of standard time – setting time standards for work with apparel production machineries.

INDUSTRIAL ENGINNEERING

9Hours

Industrial engineering term in textile and apparel industry-role of industrial engineering in textile industry- methodology- benefits- tools and techniques-pre-production activities- capacity study- operator performance follow ups-work in progress- operation bulletin- line balancing- steps in line balancing –efficiency-cycle checks-balancing tools- scientific method of training.

APPLICATION OF WORKSTUDY

9 Hours

Application of work study technique in optimizing work load in stitching activity in garment industry – comparative study of different manufacturing systems used in the garment production - group system, batch system – industrial system – productivity calculation in Stitching activity. Ergonomics and its concept in textile industry

Theory: 45 Hours Total: 45 Hours

REFERENCES

- Johnson Maurice "Introduction to Work Study", International Labour Organization, Geneva, 2006.
- 2. JaccoSolinger "Apparel Manufacturing Hand Book", Reinhold Co., 1998.
- Juan CrloHiba "Improving working conditions and productivity in the garment industry" International Labour Organization, Geneva, 1998.
- 4. V.RameshBabu "Industrial Engineering in Apparel Production" Wood Head publishing India Ltd., ISBN 13:978-93-80308-17-3, 2012.
- 5. M.I.KHAN"Industrial Engineering"New age international, 2007
- Kjell zondin, "Maynard's Industrial Engineering Handbook", 5th edition, Mcgraw Hill, 2001.
- 7. Sheth vijay, "Industrial engineering methods and practices", penram international, publishing, India, 2005.

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Included in elective Course code: U17TXE0007

Course Name: Clothing Science

114

U17TXE0007

CLOTHING SCIENCE

L	T	P	J	C
3	0	0	0	3

Course Outcomes (COs)

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

- **CO1**: Understand the Estimation of transmission characteristics of various fabrics and their suitability of applications.
- CO2: Understand the Estimation of transformation characteristics of various fabrics and their suitability of applications.
- CO3: Do the Selection of fibre type, yarn structure and fabric structure for sports applications.
- **CO4**: Design of a fabric with suitable fibre type, yarn structure, fabric structure and finishes for bullet proof fabrics.

(S/M/W	CO-POs & PSOs Mapping (S/M/W indicates strength of correlation)S-Strong, M-Medium, W-Weak													
COs									nme Speci	fic Outcor	nes (PSC	Os)		
	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													
CO2		M											M	
CO3		M												
CO4														
CO5														
CO6		M												

Course assessment Methods

Dire	ect	Indi	ect	
1.	Internal test I	1.	Course end survey	
2.	Internal test II		-	
3.	Assignment/ Seminar/ Tutorial			
4.	End Semester Examination			

TRANSMISSION CHARACTERISTICS

9 Hours

Air permeability – Heat transmission – Thermal resistance – Light permeability – Moisture transmission – Water permeability – wicking characteristics – Radioactivity transmission.

TRANSFORMATION CHARACTERISTICS

9 Hours

Crease resistance and recovery – Crock resistance – Dimensional stability – Hygral expansion – Relaxation shrinkage – Swelling shrinkage and felting shrinkage. Pilling – Scorching and Soiling – Flame retardance – Fusing and Mildew resistance ,Subjective and objective evaluation: Drape – Colour, colour fastness – Shade variation and measurement.

FABRIC HANDLE AND COMFORT

9 Hours

Bending – Compression – Tensile – Shear – surface friction – Bias extension – Formability – Tailorability – Objective evaluation of fabric handle by KES and FAST Fabric parameters and its influence on fabric comfort – Garment fit and size on comfort.

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DESIGN LOGIC OF APPAREL PRODUCT

9 Hours

Classification of textile products – Components – Materials – Specification – Properties – Selection of constituent fibres, yarns, fabrics and apparels

DEVELOPMENT OF APPARELS FOR SPECIFIC END USE

9 Hours

Fit analysis for various end uses: Winter – summer wear – innerwear – Sports – Casual – Swim wear. Protective wear; Ballistic protection – UV protection – Functional and quality requirements. Factors to be considered while developing apparels for specific end use

Theory 45 Hours

Total: 45 Hours

REFERENCES

- Pradip V. Metha, An Introduction to Quality Control for the Apparel Industry, ASQC Quality Press, Marcel Dekker Inc New York, 1992.
- 2. R. Ed Postle, S. Kawabata and M. Niwa, Objective Evaluation of Fabrics, Textile Machinery Society, Japan, Osaka, 1983.
- 3. Miller, Textiles: Properties and Behaviors in Clothing Use, The Textile Institute, 1998.
- 4. T. Mastudaira and M. N. Suresh, Design Logic of Textile Products, Textile Progress, The Textile Institute, Manchester, 1997.
- B. P. Saville, Physical Testing of Textiles, The Textile Institute, Woodhead Publishing Limited, Cambridge, 1999.
- 6. R. M. Laing and G. G. Sleivert, Clothing, Textiles and Human Performance, Textile Progress, Vol.32, No.2, 2002.

Dr.J.Srinivasan



DEPARTMENT OF COMPUTER APPLICATIONS

AY: 2018-19

Date: 15.04.2019

Action taken report -Student

s.no	ANALYSIS	ACTION TAKEN REPORT
1.	Need demo on testing Automation for the course software testing.	As P18CAI4201 – Software Testing was a embedded course, the exercises given for lab component focus on testing automation.
2.	Can have lab component for Big data Analytics course and need for practice.	It was considered for next revision.
3.	Open API, Block chain, Java Containers, Design Patterns, Digital Marketing, Hybrid APP Development can be added as elective subjects	It was considered for next revision.

PreparedBy,

BoS Coordinator

Approved By,

Bos Chairman

Proof for Action Taken 1:

SEMESTER-IV

Course Code	Course Title	Course Mode	L	T	P	J	С
P18CAI4201	Software Testing	Embedded - Theory &Lab	3	0	2	0	4
P18CAT4102	Big Data Analytics	Theory	3	1	0	0	4
P18CAI4203	Web Development	Embedded – Theory & Lab	3	0	2	0	4
P18CAE	Programme Elective I	Theory	3	0	0	0	3
P18CAP4501	Mobile Application Development Lab	Lab	0	0	4	0	2
P18ENP4501	Professional Skills III	Lab	0	0	2	0	1
P18INI4600	Engineering Clinic -II	Embedded Lab& Project	0	0	4	2	3

LIST OF EXPERIMENTS

- 1. Trace and debug a C program
- 2. Prepare a test plan and develop test case hierarchy
- 3. Generate test cases and test documentation for the selected project domain
- 4. Perform test to collect coverage error and leak data and memory profiling data using tools like Rational Purify.
- 5. Collect, analyze and compare the performance data using tools like Rational Quantify
- 6. Perform unit testing and integrated testing on the application
- 7. Perform load volume testing on the application
- 8. Perform performance testing on the application
- 9. Perform various testing on a web application using any open source tool



Department of Mechatronics Engineering

AY: 2018-19

Date: (23.04.18)

Action taken report -Student Feedback

S.No	Analysis	Action taken report
1.	Suggested to embed the e yantra lab with the U17MCT7001 Autonomous vehicle subject	E yantra Experiment added in the practical learning process in the U17MCT7001 Autonomous vehicle
2.	PIC controller to be added in the U17MCI6202 Embedded system course	Added in the U17MCI6202 Embedded system course

Prepared By,

Approved By,

BoS Coordinator

BoS Chairman



Department of Mechatronics Engineering

AY: 2018-19 Date: (23.04.18)

Action taken report -Student Feedback(Proof)

Proof 1:

LIST OF EXPERIMENTS 30 Hours
8051 Assembly language program & interfacing

- Basic programming using 8051 ALP (addition, subtraction, multiplication, ascending, descending etc.)
- 2. 8051 peripheral programming (ADC, counter, timer, interrupts etc.)
- 3. Motor control using 8051(DC motor and stepper motor)
- 4. Build and test circuits with switches, LEDs, resistors, potentiometers, and liquid crystal displays
- Synchronizing hardware and software input/output with switches, lights, sound, sensors, motors, and liquid crystal displays
- 6. Implementation of combination lock with Capsense
- 7. Motor control using PWM
- 8. Development of hypothetical Switch Protocol using GPIO and timer using ARM7and PSoC
- 9. Utilization of capacitive sensing (CapSense) module of PSoC board for simple applications
- 10. Study of E yantra board

Theory: 45 Tutorial: 0 Practical: 30 Project: 0 Total: 75 Hours

Proof 2:

THE MICROCONTROLLER ARCHITECTURE	9 Hours
Introduction to 8051 Microcontroller: Architecture, Pin configuration, Memory organ	
/Output Ports, Counter and Timers, Serial communication and Interrupts, Instruction s	set,
Signature of BOS chairman, MCE	

Addressing modes, Simple programming



Department of Mechanical Engineering

AY: 2018-19

Date: 15.04.2019

Students Feedback

1. Training program can be organised in non-traditional machining process- EDM .

Prepared By,

Dr.B. Senthilkumar

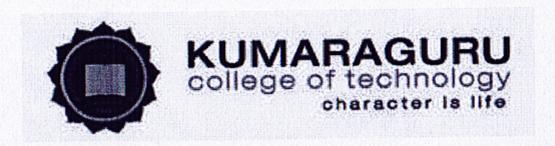
BoS Coordinator

Approved By,

Dr.C.Velmurugan

BoS Chairperson

Dr. C. VELMURUGAN, M.E.,Ph.D.
Professor & Head
Department of Mechanical Engineering
Kumaraguru College of Technology
Colmbatore - 641 049.



Department of Mechanical Engineering

AY: 2018-19

Date: 15.04.2019

Students Feedback Analysis Report

1. Training program can be organised in non-traditional machining process- EDM .Response: Manufacturing module coordinator is requested to include this as an experiment in the syllabus

Prepared By,

Dr.B.Senthilkumar

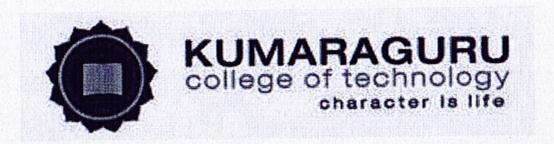
BoS Coordinator

Approved By,

Dr.C.Velmurugan

BoS Chairperson

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Kumaraguru College of Technology
Coimbatore - 641 049.



Department of Mechanical Engineering

AY: 2018-19

Date: 15.04.2019

Action taken report -Students Feedback

S.No	Analysis	Action taken report
1.	Training program can be organised in non-traditional machining process- EDM .	It will be included in the U18MEI3201 Metal cutting and computer aided manufacturing lab as an experiment beyond the syllabus.

Prepared By,

Dr.B.Senthilkumar

BoS Coordinator

Approved By,

Dr.C.Velmurugan

C. velningen

BoS Chairperson

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