

#### Value Added Courses-I

#### Year: 2019-20

#### **Title: Technology and Innovation for Social Transformation**

Total No. of Students: 17 Course code: M17EHSC301

Course-1: Understanding Rural Community	Duration: 6 weeks (1-6-2019 to 1-12-2019)
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#### **Course Objectives:**

- Service-Learning: Provide significant service to the community while learning; gain an understanding of the role that engineering can play in society and the broader issues related to the needs addressed.
- Multidisciplinary Design: Learn how to be better designers, gain design knowledge and skills; learn how to apply disciplinary knowledge to real and possibly ill-defined problems; learn how to identify and acquire new knowledge; learn to collaborate with people from other disciplines.
- **Professional Preparation:** Develop the broad set of skills needed to be successful in the changing global workplace &world.

#### **Course Content:**

- Introduction.
- Understanding development.
- Understanding partnerships / Spirit of working together.
- Cogenerating problem areas
- Desirability Validation
- User Need Analysis
- Conceptual Design

#### **Faculty Profile:**

#### **Faculty pool**

Sl No	Faculties
1	Dr. Sanjay Kotabagi
2	Dr. Gopal Joshi
3	Ms. Vani Yalamali
4	Ms. Geeta S Maralappanavar
5	Mr. Shashidhar Neelakkanthmath
6	Ms. Poornima Byahatti
7	Ms. Uma Malawad

#### **Resource person**

Sl No	Resource person
1	Dr. R Balasubramanyam
2	Mr Hemant M N
3	Dr. Prakash Bhat
4	Captain C S Anand
5	Mr. Sudarshan P
6	Prof. Chidananda Reddy S Patil
7	Mr Sham Kashyap
8	Mr Salimath
9	Mr Praveen Kumar Sayyaparaju
10	Mr Someshaker

#### List of Students Enrolled

SI.No	Student Name	USN	Branch
1.	ArpitaHuggi	01FE17BAR008	ARE
2.	ManjunathKini	01FE17BAR025	ARE
3.	Carolyn Gundimi	01FE17BAR061	ARE
4.	Daksha Hedge	01FE17BCS065	CSE
5.	Kumar gaurav	01FE17BCS098	CSE
6.	Riddhi Mehta	01FE17BCS157	CSE
7.	Deepti A	01FE17BEC049	ECE
8.	James Mathew	01FE17BEC071	ECE
9.	Komal R	01FE17BEC081	ECE
10.	Laxmi M	01FE17BEC085	ECE
11.	Pallavi Bhat	01FE17BEC112	ECE
12.	Vikas Kulkarni	01FE17BEC244	ECE
13.	Nagabashan W	01FE17BME103	MEE
14.	Sarvesh G M	01FE17BME170	MEE
15.	Shamanth Shetty	01FE17BME173	MEE
16.	Sharad N Patil	01FE17BME175	MEE
17.	Trishul Jain	01FE17BME205	MEE

**Certificates:** 





This is to certify that

Arpita Huggi

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Head of Department** 





This is to certify that

**Carolyn Gundimi** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

**Daksha Hedge** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

**Deepti A** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

**James Mathew** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Head of Department** 





This is to certify that

Komal R

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Head of Department** 





This is to certify that

Kumar gaurav

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

Laxmi M

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

**Manjunath Kini** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Head of Department** 





This is to certify that

**Nagabashan W** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019

Controller of Examinations

**Head of Department** 





This is to certify that

**Pallavi Bhat** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

**Riddhi Mehta** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

Sarvesh G M

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Head of Department** 





This is to certify that

**Shamanth Shetty** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Head of Department** 





This is to certify that

Sharad N Patil

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

**Trishul Jain** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 





This is to certify that

Vikas Kulkarni

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Understanding Rural Community (phase-I)** 

from 01.06.2019 to 01.12.2019



Controller of Examinations

**Course Instructor** 



#### Value Added Courses-II

#### Year: 2019-20

#### **Title: Technology and Innovation for Social Transformation**

Total No. of Students: 17 Course code: M17EHSW301

Course 2: Product/Design Development	Duration:16 weeks(1-1-2020 to 1-5-2020)

#### **Course Objectives:**

- Service-Learning: Provide significant service to the community while learning; gain an understanding of the role that engineering can play in society and the broader issues related to the needs addressed.
- **Multidisciplinary Design:** Learn how to be better designers, gain design knowledge and skills; learn how to apply disciplinary knowledge to real and possibly ill-defined problems; learn how to identify and acquire new knowledge; learn to collaborate with people from other disciplines.
- **Professional Preparation:** Develop the broad set of skills needed to be successful in the changing global workplace &world.

#### **Course Content:**

- Detailed Design
- Bottom-up development of component Design
- Develop Design Specifications for components
- Design Analysis
- Proof of concept/ Prototyping

#### **Faculty Profile:**

#### **Faculty pool**

Sl No	Faculties
1	Dr. Sanjay Kotabagi
2	Dr. Gopal Joshi
3	Ms. Vani Yalamali
4	Ms. Geeta S Maralappanavar
5	Mr. Shashidhar Neelakkanthmath

**Resource person** 

Sl No	Resource person
1	Dr. R Balasubramanyam
2	Mr Hemant M N
3	Dr. Prakash Bhat
4	Captain C S Anand
5	Mr. Sudarshan P
6	Prof. Chidananda Reddy S Patil
7	Mr Sham Kashyap
8	Mr Salimath
9	Mr Praveen Kumar Sayyaparaju
10	Mr Someshaker

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Sl.No	Student Name	USN	Branch
1.	ArpitaHuggi	01FE17BAR008	ARE
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3.	Carolyn Gundimi	01FE17BAR061	ARE
4.	Daksha Hedge	01FE17BCS065	CSE
5.	Kumar gaurav	01FE17BCS098	CSE
6.	Riddhi Mehta	01FE17BCS157	CSE
7.	Deepti A	01FE17BEC049	ECE
8.	James Mathew	01FE17BEC071	ECE
9.	Komal R	01FE17BEC081	ECE
10.	Laxmi M	01FE17BEC085	ECE
11.	Pallavi Bhat	01FE17BEC112	ECE
12.	Vikas Kulkarni	01FE17BEC244	ECE
13.	Nagabashan W	01FE17BME103	MEE
14.	Sarvesh G M	01FE17BME170	MEE
15.	Shamanth Shetty	01FE17BME173	MEE
16.	Sharad N Patil	01FE17BME175	MEE
17.	Trishul Jain	01FE17BME205	MEE

**Certificates:** 





This is to certify that

**Sharad N Patil** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

**Shamanth Shetty** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

Sarvesh G M

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

**Nagabashan W** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

Vikas Kulkarni

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

**Pallavi Bhat** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

Laxmi M

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

Komal R

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

**James Mathew** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

**Deepti A** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

**Riddhi Mehta** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 





This is to certify that

Kumar gaurav

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020



Controller of Examinations

**Course Instructor** 





This is to certify that

**Daksha Hedge** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Head of Department** 





This is to certify that

**Carolyn Gundimi** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 

**Head of Department** 





This is to certify that

**Manjunath Kini** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

**Head of Department** 

Controller of Examinations

**Course Instructor** 





This is to certify that

Arpita Huggi

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 

**Head of Department** 





This is to certify that

**Trishul Jain** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

**Product/Design Development (Phase-II)** 

from 01.01.2020 to 01.05.2020

Controller of Examinations

**Course Instructor** 

**Head of Department** 

# Value Added Training

## **Course: Database Management System** (2019-20)



# Value Added Course

#### on

# **Data Mining and Analytics**

### **Course Outcomes**

- 1. Apply fundamental concepts of database systems to analyze, design and normalize the Database.
- 2. Formulate relational algebra and SQL queries to manage the data.
- 3. Apply concepts of transaction processing and security techniques for multi-user access of database systems.
- 4. Describe other popular database systems like NoSQL and columnar database.
- 5. Design and implement a database application for a real-world problem.

Resource Person:Mr. Uday Kulkarni

Last Date to apply – 29<sup>th</sup> Dec 2017 Program Duration – Jan 2018 to May 2018 Coordinator – Dr. Narayan D. G. narayan\_dg@kletech.ac.in +91 9448635627



Unit –	Unit –I							
1	Introduction and	ER Model						
	Introduction to DI	BMS and an example ; Data models, schemas and instances;						
	Three-schema arch	itecture; Database languages; Using High-Level Conceptual						
		Database Design; An Example Database Application; Entity						
		Types, Entity Sets, Attributes and Keys, Relationship types, Relationship Sets.						
		al Constraints; Weak Entity Types; Refining the ER Design;	06 hrs					
		ning Conventions and Design Issues.	00 11 5					
2	Relational Data M	Iodel						
	Relational Model Concepts; Relational Model Constraints and Relational							
		; Update Operations and dealing with constraint violations;						
		Operations: SELECT and PROJECT; Binary Relational						
		ESIAN PRODUCT, JOIN: Additional Relational Operations;	06 hrs					
<b>TT 1</b> /		e Design Using ER- to-Relational Mapping.						
Unit –	11							
3	Database Design							
	Informal Design Guidelines for Relation Schemas; Functional Dependencies;							
	Normal Forms Based on Primary Keys; 3rd Normal Form.							
4	SQL	· · ·						
	SOL Data Definit	ion and Data Types; Specifying basic constraints in SQL;						
	-	tements in SQL; Insert, Delete and Update statements in SQL;						
	-	QL, JOIN operations, Complex SQL Queries.	06 hrs					
Unit –	*							
5		ransaction Processing and Concurrency Control						
		ransaction Processing; Transactions and System concepts;						
		ies of Transactions; Characterizing schedules based on	06 hrs					
<b>T</b> ( <b>D</b>	Serializibilty.							
Text B			-					
1.	1. Elmasri R. and Navathe S., Fundamentals Database Systems, 6 <sup>th</sup> edition, Pearson Education, 2011.							
Refere	References:							
1.	Ramakrishnan S.	and Gehrke J., Database Management Systems, 3rd edition, McC	Graw					
	Hill, 2007.							
2.	2. Silberschatz A., Korth H.F. and Sudharshan S., Data base System Concepts, 5th Edition, Mc- GrawHill, 2006.							
	,		1					
Experi		Lab assignments/experiment						
2 D	onstration	SOI						

Experiments	Lab assignments/experiment
3-Demonstration	SQL
4-Exercise	Set Theory Operators, Cartesian Product, Aggregate Functions, Nested Queries, Joins
2-Structured Enquiry	Database Design, Complex SQL queries



#### K. L. E. Society's K L E Technological University SCHOOL OF COMPUTER SCIENCE & ENGINEERING

#### **Biodata Of Resource person**



Mr. Uday Kulkarni is Assistant Professor indepartment of School of Computer Science and Engineering, K LE Technological University Hubballi. I am having 5 years of industry experience and 7 years of teaching experience.

I have a work experience in data mining, machine learning and deep learning domains. I had worked as PhD intern in SAMSNG for 9 months where my work focus was on porting AI/ML models on edge devices. I have oracle, .Net and informatica professional certification.

I have good no publications in IEEE, Scopus, WOS supported conference and journals. I have engaged workshop for various colleges on AI/ML domains.



#### Time Table for the Value Added Course

Course	Name of the Faculty	Venue
Database Management System	Prof. Uday Kulkarni	ISE Achiever Lab

DAY/TIME	11.00 to 1.00 pm	4.45 to 5.45 pm
<b>-</b> 1		Database Management
Thursday		System
		Database Management
Friday		System
	Databasa Managamant	
Saturday	Database Management	
	System	

Coordinator Signature

Head,

SoCSE

#### Attendance Sheet

#### Course: Database Management System

SI No	Name of Student	USN					Atten	dance				
			29/8/2020	30/8/2020	12/9/2020	13/9/2020	10/10/2020	11/10/2020	7/11/2020	8/11/2020	5/12/2020	6/12/2020
1	NISCHITHA V	01FE17BAR036-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
2	SNEHA JANAGOUDAR	01FE17BAR056-M	Ρ	Р	Р	Ρ	Ρ	Р	Р	Р	Р	Р
3	AVINASH S KALRA	01FE17BAR062-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
4	HARSH S PATIL	01FE17BEE026-M	Ρ	Р	Р	Ρ	Ρ	Р	Р	Р	Р	Р
5	POORNIMA VIJAYASHANKAR KULKARNI	01FE17BEE065-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
6	SHRIVALLI SHIGGAON	01FE17BEE096-M	Ρ	Р	Р	Р	Р	Р	Р	Р	Р	Р
7	SNEHA VEERANNA PATIL	01FE17BEE098-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
8	VEERABHADRAPPA BASAVARAJAPPA GALI	01FE17BEE121-M	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
9	AKANKSHA N PIKLE	01FE17BME010-M	Ρ	Р	Р	Ρ	Ρ	Р	Р	Р	Р	Р
10	BHARATH ASHOK AJJAMMANAVAR	01FE17BME033-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
11	KOUSTUB	01FE17BME080-M	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
12	RAVIRAJ M BHAT	01FE17BME151-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
13	SANGAMESH S BANKAPURMATH	01FE17BME166-M	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
14	SRUSHTI RAVINDRA GANAMUKHI	01FE17BME196-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
15	SUDHANVA S J	01FE17BME197-M	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
16	TANMAY SHRIVASTAVA	01FE17BME204-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р

#### Mr. Uday Kulkarni



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#### Student List Course: Database Management System

SI No	Name of Student	USN
1	NISCHITHA V	01FE17BAR036-M
2	SNEHA JANAGOUDAR	01FE17BAR056-M
3	AVINASH S KALRA	01FE17BAR062-M
4	HARSH S PATIL	01FE17BEE026-M
5	POORNIMA VIJAYASHANKAR KULKARNI	01FE17BEE065-M
6	SHRIVALLI SHIGGAON	01FE17BEE096-M
7	SNEHA VEERANNA PATIL	01FE17BEE098-M
8	VEERABHADRAPPA BASAVARAJAPPA GALI	01FE17BEE121-M
9	AKANKSHA N PIKLE	01FE17BME010-M
10	BHARATH ASHOK AJJAMMANAVAR	01FE17BME033-M
11	KOUSTUB	01FE17BME080-M
12	RAVIRAJ M BHAT	01FE17BME151-M
13	SANGAMESH S BANKAPURMATH	01FE17BME166-M
14	SRUSHTI RAVINDRA GANAMUKHI	01FE17BME196-M
15	SUDHANVA S J	01FE17BME197-M
16	TANMAY SHRIVASTAVA	01FE17BME204-M

AKANKSHA N PIKLE	01FE17BME010-M
SNEHA VEERANNA PATIL	01FE17BEE098-M
BHARATH ASHOK AJJAMMANAVAR	01FE17BME033-M
RAVIRAJ M BHAT	01FE17BME151-M
SHRIVALLI SHIGGAON	01FE17BEE096-M
SRUSHTI RAVINDRA GANAMUKHI	01FE17BME196-M
KOUSTUB	01FE17BME080-M
SANGAMESH S BANKAPURMATH	01FE17BME166-M
TANMAY SHRIVASTAVA	01FE17BME204-M
VEERABHADRAPPA B GALI	01FE17BEE121-M

SUDHANVA S J	01FE17BME197-M





This is to certify that

**AKANKSHA N PIKLE** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

**AVINASH S KALRA** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

Mr./Miss.

**BHARATH ASHOK AJJAMMANAVAR** 

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

HARSH S PATIL

Mr./Miss.

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

**NISCHITHA V** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

Mr./Miss.

POORNIMA VIJAYASHANKAR KULKARNI

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

**RAVIRAJ M BHAT** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

SHRIVALLI SHIGGAON

has successfully completed the Value Addition Training Course on

Mr./Miss.

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

**SNEHA JANAGOUDAR** 

has successfully completed the Value Addition Training Course on

Mr./Miss.

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

**SNEHA VEERANNA PATIL** 

has successfully completed the Value Addition Training Course on

Mr./Miss.

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

Mr./Miss.

**SRUSHTI RAVINDRA GANAMUKHI** 

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations





This is to certify that

TANMAY SHRIVASTAVA

Mr./Miss. ...

has successfully completed the Value Addition Training Course on

from 26-08-2020 to 25-12-2020 **Course Instructor Head of School** Controller of Examinations

# Value Added Training Course: Data Mining and analytics (2019-20)



# Value Added Course

#### on

# **Data Mining and Analytics**

### **Course Outcomes**

- Apply appropriate data preprocessing techniques on raw data to obtain processed data.
- Analyze the processed data by applying pattern mining, classification and clustering techniques.
- Evaluate the performance of various data mining techniques.
- Develop and analyze a data mining solution to solve a given problem.

**Resource Person: Mr. Uday Kulkarni** 

Last Date to apply – 29<sup>th</sup> Dec 2017 Program Duration – Jan 2018 to May 2018 Coordinator – Dr. Narayan D. G. narayan\_dg@kletech.ac.in +91 9448635627



Unit –	I	
1	Data Pre-Processing	
	Introduction to data mining, data Types of data Sets and attribute Values, basic	
	statistical descriptions of data, data visualization, measuring data similarity data	
	quality, major tasks in data preprocessing, data reduction, data transformation	
	and data Discretization, data cleaning and data integration.	06 hrs
2	Mining Frequent Patterns, Associations and Correlations: Concepts and	
	Methods	
	Basic Concepts, Efficient and Scalable Frequent Item set Mining Methods,	
	finding interesting Patterns, Pattern Evaluation Methods, Applications of	
	frequent pattern and associations, Advanced Frequent Pattern Mining, Frequent	
	Pattern and Association Mining: A Road Map, Mining Various Kinds of	
	Association Rules.	06 hrs
Unit –	II	
3	Classification	
-	Classification: Basic Concepts, Decision Tree Induction, Naïve Bayesian	
	classification Methods, Rule-Based Classification, Model Evaluation and	
	Selection, Techniques to Improve Classification Accuracy: ensemble Methods,	
	Bayesian belief networks.	06 hrs
4	Cluster Analysis	
	Cluster Analysis Partitioning methods, Hierarchical Methods, Density based	
	methods, Outlier Detection.	06 hrs
Unit –	III	
5	Big data fundamentals:	
	Introduction to big data – Data storage and	
	analysis – Rational data base management systems. Map reduce – data format –	
	analyzing the data with Unix or Hadoop or SAS.	06 hrs
Text B	looks:	
1.	Jiawei Han, MichelineKamber, and Jian Pei, Data Mining: Concepts and Techniq	ues, 3rd
	edition, Morgan Kaufmann, 2011.	
Refere	nces:	
1.	Ian H. Witten, Eibe Frank, Mark A. Hall, Data Mining - Practical Machine Learni	ing
	Tools and Techniques (3rd Ed), Elsevier Inc - 2011.	
2.	M. H. Dunham, "Data Mining: Introductory and Advanced Topics", Pearson	
	Education. 2008.	
3.	Pang-Ning, Michael Steinbach, Vipin Kumar, "Introduction to Data Mining", Pea	rson
	Education, 2007.	

Experiments	Lab assignments/experiment
3-Demonstration	Pentaho and weka tools demonstration
4-Exercise	Implementation of Data Description techniques using Python language.
2-Structured Enquiry	Implementation of KDD process using python language.



#### K. L. E. Society's K L E Technological University SCHOOL OF COMPUTER SCIENCE & ENGINEERING

#### **Biodata Of Resource person**



**Mr. Uday Kulkarni** is Assistant Professor indepartment of School of Computer Science and Engineering, K LE Technological University Hubballi. I am having 5 years of industry experience and 7 years of teaching experience.

I have a work experience in data mining, machine learning and deep learning domains. I had worked as PhD intern in SAMSNG for 9 months where my work focus was on porting AI/ML models on edge devices. I have oracle, .Net and informatica professional certification.

I have good no publications in IEEE, Scopus, WOS supported conference and journals. I have engaged workshop for various colleges on AI/ML domains.



#### Time Table for the Value Added Course

Course	Name of the Faculty	Venue
Data Mining and analytics	Prof. Uday Kulkarni	ISE Achiever Lab

DAY/TIME	11.00 to 1.00 pm	4.45 to 5.45 pm
Thursday		
Friday		Data Mining and analytics
Saturday	Data Mining and analytics	

Coordinator Signature

Nuns

Head,

SoCSE

#### Attendance Sheet

#### Course: Data Mining and Analytics

SI No	Name of Student	USN	Attendance									
			9/5/2020	10/5/2020	6/6/2020	7/6/2020	4/7/2020	5/7/2020	25/7/2020	26/7/2020	1/8/2020	2/8/2020
	1 AKANKSHA N PIKLE	01FE17BME010-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
2	2 SNEHA VEERANNA PATIL	01FE17BEE098-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
	3 BHARATH ASHOK AJJAMMANAVAR	01FE17BME033-M	Р	Р	Р	Р	Р	Р	Р	Р	Ρ	Р
2	4 RAVIRAJ M BHAT	01FE17BME151-M	Р	Р	Р	Р	Р	Р	Р	А	Р	Р
	5 SHRIVALLI SHIGGAON	01FE17BEE096-M	Р	Р	А	Р	Р	Р	Р	Р	Ρ	Р
(	6 SRUSHTI RAVINDRA GANAMUKHI	01FE17BME196-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
	7 POORNIMA V KULKARNI	01FE17BEE065-M	Р	Р	Р	Р	Р	Р	Р	Р	Ρ	Р
5	8 KOUSTUB	01FE17BME080-M	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
9	9 SANGAMESH S BANKAPURMATH	01FE17BME166-M	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
1(	TANMAY SHRIVASTAVA	01FE17BME204-M	Α	Α	Α	Α	А	Α	Α	Α	Α	А
1:	1 VEERABHADRAPPA B GALI	01FE17BEE121-M	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
12	2 NISCHITHA V	01FE17BAR036-M	Р	Р	Р	Р	Р	Р	Р	Р	Ρ	Р
13	3 HARSH S PATIL	01FE17BEE026-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
14	4 SNEHA JANAGOUDAR	01FE17BAR056-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
15	5 AVINASH S KALRA	01FE17BAR062-M	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
16	5 SUDHANVA S J	01FE17BME197-M	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α

#### Mr. Uday Kulkarni



#### Student List Course: Data Mining and Analytics

SI No	Name of Student	USN				
1	AKANKSHA N PIKLE	01FE17BME010-M				
2	SNEHA VEERANNA PATIL	01FE17BEE098-M				
3	BHARATH ASHOK AJJAMMANAVAR	01FE17BME033-M				
4	RAVIRAJ M BHAT	01FE17BME151-M				
5	SHRIVALLI SHIGGAON	01FE17BEE096-M				
6	SRUSHTI RAVINDRA GANAMUKHI	01FE17BME196-M				
7	POORNIMA V KULKARNI	01FE17BEE065-M				
8	КОՍЅТИВ	01FE17BME080-M				
9	SANGAMESH S BANKAPURMATH	01FE17BME166-M				
10	TANMAY SHRIVASTAVA	01FE17BME204-M				
11	VEERABHADRAPPA B GALI	01FE17BEE121-M				
12	NISCHITHA V	01FE17BAR036-M				
13	HARSH S PATIL	01FE17BEE026-M				
14	SNEHA JANAGOUDAR	01FE17BAR056-M				
15	AVINASH S KALRA	01FE17BAR062-M				
16	SUDHANVA S J	01FE17BME197-M				





This is to certify that

**AKANKSHA N PIKLE** 

has successfully completed the Value Addition Training Course on

Mr./Miss.

14-8-2020 from 4-5-2020 to **Course Instructor** Head of School Controller of Examinations





This is to certify that

**AVINASH S KALRA** 

Mr./Miss. ..

has successfully completed the Value Addition Training Course on

from 4-5-2020 to 14-8-2020 **Course Instructor** Head of School Controller of Examinations





This is to certify that

Mr./Miss.

**BHARATH ASHOK AJJAMMANAVAR** 

has successfully completed the Value Addition Training Course on

from 4-5-2020 to 14-8-2020 **Course Instructor** Head of School Controller of Examinations





This is to certify that

HARSH S PATIL

Mr./Miss.

has successfully completed the Value Addition Training Course on

14-8-2020 from 4-5-2020 to **Course Instructor** Head of School Controller of Examinations





This is to certify that

**NISCHITHA V** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

14-8-2020 from 4-5-2020 to **Course Instructor** Head of School Controller of Examinations





This is to certify that

**POORNIMA V KULKARNI** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

from 4-5-2020 to 14-8-2020 **Course Instructor** Head of School Controller of Examinations





This is to certify that

**RAVIRAJ M BHAT** 

Mr./Miss.

has successfully completed the Value Addition Training Course on

from 4-5-2020 to 14-8-2020 **Course Instructor** Head of School Controller of Examinations





This is to certify that

SHRIVALLI SHIGGAON

has successfully completed the Value Addition Training Course on

Mr./Miss.

from 4-5-2020 to 14-8-2020 **Course Instructor** Head of School Controller of Examinations





This is to certify that

**SNEHA JANAGOUDAR** 

has successfully completed the Value Addition Training Course on

Mr./Miss.

14-8-2020 from 4-5-2020 to **Course Instructor** Head of School Controller of Examinations





This is to certify that

**SNEHA VEERANNA PATIL** 

has successfully completed the Value Addition Training Course on

Mr./Miss.

14-8-2020 from 4-5-2020 to **Course Instructor** Head of School Controller of Examinations





This is to certify that

Mr./Miss.

**SRUSHTI RAVINDRA GANAMUKHI** 

has successfully completed the Value Addition Training Course on

from 4-5-2020 to 14-8-2020 **Course Instructor** Head of School Controller of Examinations

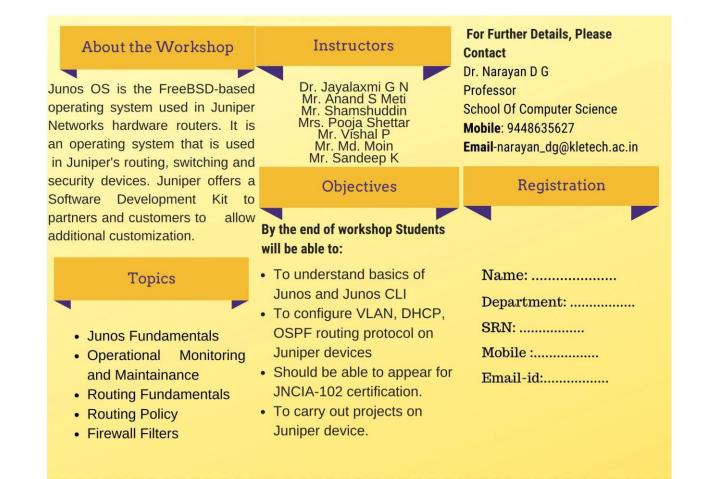
**JNCIA Certification Program** 

School of Computer Science and Engineering

**KLE Technological University** 

Vidyanagar

Hubbaalli-580031



#### **JNCIA Certification Overview**

Workshop aims to learn the fundamental concepts of networking, master all JNCIA concepts, administer a network running Juniper devices, and troubleshoot a Juniper devices network. **JNCIA-Junos** course will add value to your knowledge and will improve your confidence to pass the exam.

#### Juniper Networks Training and Certification

MOU is been signed with Juniper networks as an initiative towards Industry institute interaction, to strengthen the networking vertical. Faculties are trained by the Juniper experts for JNCIA course and certified for the same. Students are given training for JNCIA course by the certified staff. JNCIA certification exam is conducted in collaboration with industry. In table 1 number of students, trained, certified and placed in Juniper networks during for the last year 2019-2020 is represented. This certification has helped the students to get through different companies such as Microsoft, Akamai, Mercedes Benz (IT infrastructure division).

Summary of Juniper Training and Certification:

Year	2019-2020
No. of students trained	
	95
No. of students certified	
	30
Number of students placed	
	10

#### **Resource Person's**



**Dr. Jayalaxmi G. Naragund** is Associate Professor in department of School of Computer Science and Engineering, K L E Technological University Hubballi. She has worked in area of Wireless Mesh networks (WMN) and Software Defined Networks (SDN). She has carried out her research using NS2 and NS3 network simulator tool. Professor has conducted state level 3 days' workshop on NS2 in 2008. She has also become resource person in NS3 workshop at different institutes. She has good number of publications in IEEE explorer, springer book chapter and Elsevier conferences. Publications are indexed by Scopus and Web of Science. She has won best research paper award in IEEE International conference in the year 2013. She is always eager to explore herself to new technologies like deep learning and Robotic Process Automation (RPA). She has more than 10 years of experience in computer network research field and also served in rural areas of north Karnataka.



Shamshuddin K holds a Master's degree in Computer Network Engineering from National Institute of Engineering, Mysore. He is working as an Assistant professor in KLE Technological University, Hubballi, Karnataka and is having teaching experience of 13 years. His research interest includes cryptography, network security and privacy. He has handled Computer communication network. He has published papers in the area of privacy in 5G networks and teaching pedagogy in international conferences.



Pooja Shettar holds a Master's degree in Computer Science Engineering from BVB College of Engineering, Hubli in the year 2013. She is working as an Assistant professor in KLE Technological University, Hubballi, Karnataka and having teaching experience of 10 years. Her research interest includes cryptography, cloud security and privacy. She has handled ADBMS ,Information Security, Software Engineering. She has published papers in the area of privacy in Cloud Security and teaching pedagogy in international conferences.



Mohammed Moin Mulla holds a Master's degree in Computer Science. He is an Assistant professor in KLE Technological University, Hubballi, Karnataka, and has teaching experience of 3 years. His research interest includes Computer Networks, Software Defined Networks, and Cloud Computing and currently working on network traffic engineering and security. The goal of my research is to improve network QoS and secure the networks. He is involved as a member of the teaching team for the Juniper and AWS Certification courses at various institutions. He is playing an active role in designing Networking and Cloud computing courses for the Computer science department.

#### **Training content**

Part 1	Hrs			
Junos operating system fundamentals: Introduction to Junos OS, Traffic processing, Overview of Junos Device				
User interface options: Junos CLI, Operational mode, Configuration mode				
Initial Configuration: Factory-Default configuration, Initial Configuration, Interface Configuration				
<b>Secondary Configuration</b> : Authorization Overview, Deny and Allow Overrides, System Logging, Interpreting Message Codes, Monitoring NTP, Automated Configuration Backup, SNMP Operation, Monitoring SNMP Operation	4 Hours			
<b>Operational Monitoring and Maintenance:</b> Monitoring Tools, Monitoring System Operation, Monitoring the Chassis, Gathering Extensive Interface Information, Monitoring Traffic, Network Utilities, Determining the Junos OS Release, Unified ISSU, Password Recovery.				
Part 2				
<b>Routing Fundamentals:</b> Routing Components, Routing Information Sources, Forwarding Table, Multiple Routing Tables, Preferred Routing Information Sources, Viewing the Route Table, Dynamic Routing, Case Study: Objective and Topology, Case Study: Configuring OSPF				
	4 Hours			
<b>Routing Policy:</b> An Overview of Routing Policy, Default Routing Policies, Route Filters, Defining Routing Policy, Applying Routing Policy, Case Study: Objective and Topology, Case Study: Applying the Policy				
,, ,	4 Hours			
Firewall Filters: Building Blocks of Firewall Filters, Common Match Criteria, Common Actions, Defining a Firewall Filter, Filtering Traffic on Interfaces.				

#### JUNIPER NETWORK TRAINING FOR JUNOS ASSOCIATE, JNCIA-JUNOS (JN0- 102)

#### Schedule (2019-2020)

SL.no	DAY/DATE	TOPICS TO BE COVERED				
PART-I						
1.	MONDAY	JUNOS OPERATING SYSTEM FUNDAMENTALS				
	16/9/2019					
2.	TUESDAY	USER INFTERFACE OPTIONS				
	17/9/2019					
3	WEDNESDAY	INITIALCONFIGURATION				
	18/9/2019					
4	THURSDAY	SECONDARY SYSTEM CONFIGURATION				
	19/9/2019					
5	FRIDAY	OPERATIONAL MONITORING AND MAINTAINANCE				
	20/9/2019					
		PART-II				
6	MONDAY	ROUTING FUNDAMENTALS				
	21/9/2019					
7	WEDNESDAY	ROUTING POLICY				
	22/9/2019					
8	THURSDAY	FIREWALL FILTERS				
	24/9/2019					

#### Instructors

- 1. Dr Jayalaxmi G N
- 2. Mr Moin Mulla
- 3. Mr Shamshuddin
- 4. Mr Sandeep Kulkarni
- 5. Mr Anil Kabbur

#### Attendance list

#### Attendance JNCIA 2019-20

51 No	Name	16/9	17/9	18/9	19/9	20/9	21/9	22/9	24/9	,
1.	Chandan Shanbhag	handan Shanbhag P P P P P P		Р	P P					
2.	Babu Mallappanavar	Р	Α	Р	Р	Р	Р	Р	P	
3.	Smita C Yadavannavar	Р	Р	Р	Α	Р	Р	P	P	
4.	Mukthabai Karajagi	Р	Р	Р	Р	Р	P	P	P	
5.	J S Yashas	Р	Р	Р	P	Р	Р	P		
6.	Zeba Ara Patel	Р	Р	Р	Р	A	Р	P	P	
7.	Medha Ramakrishna Bhat	Р	Р	Р	Р	P	P	P	P	
8.	Vaishnavi Jarimalli	Р	P	Р	Р	P	P	P P	P P	
9.	J. Husen Mana		P	P	A	P	P P	P	P	
		Basavaraj Navaigunu		P			P			
	Vaishakh I Kuppast	P	P	P	P	P P	P			
10000	Saraswati Kandkur	Р	Р	Р	P	P	P	P P P P		
	Mohd Adil Baig	Р	P	A	P	P	P	P		
	Aishwarya Shetty	Р	P	P	P	P	A	P	I	
	Ritika Vernekar	P	P	P	P	P	P	P	-	P
	Lakshmi Badiger	Р	Р	P	P	P	P	P		P
17	Venkataramana Shakhapur	Р	Р	A	Р			1		
18	Disha Mahajan	P	P	P	A	P	P	P		P
	Mohammed Amaan Arab	Р	P	P	P	P	P P		-	P
	Priya Sule	P	P	P	P	1 -		P		P
	Vanishree Kadakol	P	P	P	A	P I		P	P	
101000000	Rohan Jakkannavar	P	P	P	Р	P		P P		P
	Rachana Jingade	P	P	P	P	P	P	P		Р
20	Naveen Jadhav	Р	Р	P	P	P	P	P		Р
	Rohan Roy	P P P P P		P	P	P		Р		
		P	Р	P	P	P	P	F		P
26	Gowri D	P	P	P	Р	P	P	P F		P
27	Gowri D	P	P	P	Р	P	P	I	P	P
	Kusumavati Dharwadkar	P	P	P	A	P	F		Р	P
	Neha C Panji	P	P	P	P	P	F	>	P	P
	Ishwar Malavade		P	P	P	P	I		P	P
	Aakanksha Patil	P	-		P	P			P	P
32	Atheeth A Naik	Р	P	A	P	P		2	P	P
33	Chetana Sarangamath	Р	Р	P	P			P	P	P
	Naveen Angadi	Р	Р	P	1	-			P	P
	Shrinidhi Katti	Р	Р	Р	P	F		P		P
	Gajanan Bhat	Р	P	A	P	F		P	P	
	Gourav Bhat	P	P	P	P	I		P	P	P
31	Kenthik Dondikal	P	P	Р	P	1	2	Р	P	P
38	Karthik Bandihal	Nu		6	I	-				

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#### **Certified Student List**

Sl.No	Name
1	Gayatri R M
2	Anup Ravikumar
3	Mihir M Ambli
4	Mohammed Saquib Mullanavar
5	Namrata Hosamani
6	Nidhi Vasant Mehata
7	Nikhil Laxmidas Nayak
8	Pradeep Prakash Badiger
9	Prajana Y
10	R Shilpa
11	Sanketh V Prabhu
12	Tejaswi Nayak U
13	Rashmi UB
14	Vellala Vineeth Kumar
15	Aishwarya S
16	Zeba Ara Patel
17	Disha Mahajan
18	Gajanan Shridhar Bhat
19	Gourav Krishna Bhat
20	Ishwar Manjunath Malavade

21	J S Yashas
22	Karthik Vedavyas Bandihal
23	Mohd Adil Baig
24	Neha C Panji Junos
25	Priya B Sule
26	Ritika Uday Vernekar
27	Rohan Roy
28	Sachin N B
29	Vanishree Kadakol
30	Medha Ramakrishna Bhat



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Gayatri Ramangouda Kiresur

is recognized as a

### Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer Code: 1SG404VQ0N44Q83J Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Knew & Roeli

Pradeep Sindhu Vice Chairman



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Gayatri Ramangouda Kiresur

is recognized as a

### Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer Code: 1SG404VQ0N44Q83J Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Knew & Roeli

Pradeep Sindhu Vice Chairman



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Anup Ravikumar

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Saturday, November 28, 2020

Rami Rahim Chief Executive Officer

Brand Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: Q7D5TXLS41R41Y3M Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Mihir M Ambli

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: VHT80VF5XNQQ1MG2 Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Mohammed Saquib Mullanavar

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reeling

Pradeep Sindhu Founder & Chief Scientist

Code: NB79H7JS9N44QJWC Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Namrata Hosamani

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Roseli

Pradeep Sindhu Founder & Chief Scientist

Code: MMRX9ETYV2Q1QGKX Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Nidhi Vasant Mehata

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: E8YWH7ZSWFB11FCD Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Nikhil Laxmidas Nayak

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Kran & Roeli

Pradeep Sindhu Founder & Chief Scientist

Code: Q0Z80FR58JB114KY Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Pradeep Prakash Badiger

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer Code: DDC76RXS81F4Q896 Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kran & Rali

Pradeep Sindhu Vice Chairman



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Prajna Manjunath Yaji

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: LM98GNZQ71441D32 Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

R Shilpa

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reeli

Pradeep Sindhu Founder & Chief Scientist

Code: BM0R6FHQ81QE1J36 Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Sanketh V Prabhu

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Thursday, October 24, 2019

Rami Rahim Chief Executive Officer

Brand Reeli

Pradeep Sindhu Founder & Chief Scientist

Code: 486NG2659MBQQQC7 Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Tejaswi Nayak U

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer Code: 7SL7KRXQVMB11NS6 Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kran & Rali

Pradeep Sindhu Vice Chairman



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Rashmi U B

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Kran & Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: D76W9ERQVFREQ7WK Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Vellala Vineeth Kumar

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: YCTX31HSV2F11DKE Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Aishwarya S

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer Code: XHXS6QR5V14Q15KW Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kran & Raeli

Pradeep Sindhu Vice Chairman



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Zeba Ara Patel

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand & Racei

Pradeep Sindhu Founder & Chief Scientist

Code: XGS901B50MQQQHCV Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Disha Mahajan

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: HBVGWMLYW2FEQRGM Verify at https://www.certmetrics.com/juniper/public/verification.aspx



### CERTIFICATE OF ACHIEVEMENT

This certifies that

Gajanan Shridhar Bhat

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reelin

Pradeep Sindhu Founder & Chief Scientist

Code: R3885QBQ8JR41TG4 Verify at https://www.certmetrics.com/juniper/public/verification.aspx



### CERTIFICATE OF ACHIEVEMENT

This certifies that

Gourav Krishna Bhat

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reeling

Pradeep Sindhu Founder & Chief Scientist

Code: G2Q03QHSVNF1QPSV Verify at https://www.certmetrics.com/juniper/public/verification.aspx



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Ishwar Manjunath Malavade

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Rami Rahim Chief Executive Officer Code: SYF7L4B5V1V110S0 Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kran & Raeli

Pradeep Sindhu Vice Chairman



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

J S Yashas

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Rami Rahim Chief Executive Officer Code: Y5L8PVBQV2BEQVWL Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kran & Raeli

Pradeep Sindhu Vice Chairman



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Karthik Vedavyas Bandihal

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Rami Rahim Chief Executive Officer Code: ZHT50FHQ8JQQ1592 Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kran & Raeli

Pradeep Sindhu Vice Chairman



### CERTIFICATE OF ACHIEVEMENT

This certifies that

Mohd Adil Baig

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Tuesday, October 22, 2019

Rami Rahim Chief Executive Officer

Brand Reeli

Pradeep Sindhu Founder & Chief Scientist

Code: 2LJNCZNSWJB4Q0WD Verify at https://www.certmetrics.com/juniper/public/verification.aspx



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Neha C Panji

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Rami Rahim Chief Executive Officer Code: TJK4P1FY02REQWSL Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kran & Raeli

Pradeep Sindhu Vice Chairman



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Priya B Sule

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Roseli

Pradeep Sindhu Founder & Chief Scientist

Code: FW479FV58F4QQX9J Verify at https://www.certmetrics.com/juniper/public/verification.aspx



### CERTIFICATE OF ACHIEVEMENT

This certifies that

Ritika Uday Vernekar

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reeling

Pradeep Sindhu Founder & Chief Scientist

Code: CPSV9FHY8EE1Q65F Verify at https://www.certmetrics.com/juniper/public/verification.aspx



# CERTIFICATE OF ACHIEVEMENT

This certifies that

Rohan Roy

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Roseli

Pradeep Sindhu Founder & Chief Scientist

Code: F97701FS8JF111KE Verify at https://www.certmetrics.com/juniper/public/verification.aspx



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Sachin N B

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Tuesday, October 22, 2019

Rami Rahim Chief Executive Officer Code: LS1494HQX2BE13KL Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kraus & Roeli

Pradeep Sindhu Vice Chairman



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Sachin N B

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Tuesday, October 22, 2019

Rami Rahim Chief Executive Officer Code: LS1494HQX2BE13KL Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kraus & Roeli

Pradeep Sindhu Vice Chairman



### **CERTIFICATE OF ACHIEVEMENT**

This certifies that

Vanishree Kadakol

is recognized as a

# Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Tuesday, October 22, 2019

Rami Rahim Chief Executive Officer Code: DFF7K4HY0NEQQ7G8 Verify at https://www.certmetrics.com/juniper/public/verification.aspx

Kaas & Roeli

Pradeep Sindhu Vice Chairman



### CERTIFICATE OF ACHIEVEMENT

This certifies that

Medha Ramakrishna Bhat

is recognized as a

Juniper Networks Certified Associate

Junos (JNCIA-Junos)

Wednesday, October 23, 2019

Rami Rahim Chief Executive Officer

Brand Reeling

Pradeep Sindhu Founder & Chief Scientist

Code: 3PFX61DQ0EQ411K6 Verify at https://www.certmetrics.com/juniper/public/verification.aspx

### **Essentials of IT Training for Non-IT Students**

School of Computer Science and

Engineering

**KLE technological University** 

#### **Essential of IT Training**

Information Technology (IT) industry is consistently treading on a high growth path in recent years. This has given rise to huge job opportunities for fresh graduates in the industry. Thus, IT companies like Infosys, Accenture are recruiting Non-IT graduates in large numbers to pick the best workforce. Furthermore, Non-IT students are aspiring career in the IT field. However, facing technical interviews of IT companies is always a challenge for these students. In recent years, some of the Non-IT students were rejected in interviews as they lacked programming skills and basic concepts of IT. Towards this, we train the Non-IT students in Essentials of IT to make them more employable. The training has helped the students to get placed in IT industry.

Year	Toal
No. of students trained	133
No. of students certified	81
Number of students placed	25

Summary of Essential of IT training and Effectiveness:

About the Training	Objectives	Registration
Information Technology (IT) industry is consistently treading on a	By the end of the workshop participants will be able to:	For registration click on th following link:
high growth path in recent years. IT companies like Infosys, Accenture are recruiting Non-IT graduates in large numbers to pick the best workforce. However, facing interviews of IT	<ul> <li>Explain process, memory and file management concepts of operating system.</li> <li>Demonstrate the object oriented concepts and data structure.</li> </ul>	https://forms.gle/58PcsBKv3jVg3 Suk8
companies is always a challenge for these students. In recent years, some of the Non-IT students were rejected in interviews as they lacked programming skills and basic concepts of IT. Towards this, we plan to train the Non-IT students in Essentials of IT to make them more employable.	<ul> <li>Design ER models based on problem specifications.</li> <li>Write SQL queries and optimize queries to improve performance of RDBMS.</li> </ul>	For more details contact: Dr. Narayan D G Professor School of Computer Science KLE Technological University Vidyanagar Hubli-580031 email:narayan_dg@kletech.ac.in
Topics	<b>Resource Persons</b>	
<ul> <li>Computer hardware, system softwares</li> <li>Operating system SDLC</li> <li>Problem solving using C</li> <li>Data structures and DBMS</li> </ul>	<ul> <li>Mr. Vijay Bhajantri</li> <li>Mr. Shivaraj Kengond</li> <li>Mr. Altaf Husain</li> <li>Mr. Vijay Biradar</li> <li>Ms. Jayalaxmi G</li> <li>Mr. K M M Rajashekharaiah</li> <li>Mr.Somshekar Patil</li> </ul>	-

• Mr.Mahesh Patil

#### **Training Content:**

Topics	Day	Торіс	Lecture / Hands-on
			Sessions
Introduction to	1	Components of computer systems,	Lecture Session
computer systems		Program execution cycle, Computer networks, Software and its classification,	2 hours
Introduction to computer systems         1         Components of computer systems, Program execution cycle, Computer networks, Software and its classification,         Lecture Session           2         Operating Systems, SDLC         Lecture + hands on 4hour           C Programming         3         Introduction to Problem Solving, Control structure in C         Lecture + hands on 4hours (Programming Exercises)           4         Loops, Arrays         Lecture + hands on 4 hours (Programming Exercises)           5         Strings, Structures         Lecture + hands on 4hours (Programming Exercises)           6         Structures, Functions, Pointers         Lecture + hands on 4hours (Programming Exercises)           Data Structures         7         Stacks, Queues         Lecture + hands on 4hours (Programming Exercises)           8         Linked lists, Binary Search Trees         Lecture + hands on 4 hours (Programming Exercises)           0         Characteristics of DBMS, ER model, Normalization         Lecture + hands on 4 hours           10         SQL queries         Lecture + hands on			
C Programming	3	Introduction to Problem Solving,	Lecture + hands on 4hours
		-	(Programming Exercises)
	4	Loops, Arrays	
			(Programming Exercises)
	5	Strings, Structures	Lecture + hands on
			4hours
			(Programming Exercises)
	6	Structures, Functions, Pointers	
Data Structures	7	Stacks, Queues	
	-		
	8	Linked lists, Binary Search Trees	
DD1/0			
DBMS	9		
		model, Normalization	4 Hours
	10	SQL queries	Lecture + hands on
			4 Hour

#### **Profile of Resource person**



Somashekar Patil holds a Master's degree in Computer Networks and currently pursuing PhD in the area ofNetworking . He is working as an Assistant professor in KLE Technological University, Hubballi, Karnataka and is having teaching experience of 10 years. His research interest includes Computer Networks, Software Defined Networks and Cloud Computing.He was also involved as member of teaching team for the popular Infosys campus connect foundation courses at various institutions. He is playing an active role in designing Data structures and Algorithms course of computer science department.



Mahesh S Patil graduated from SLNCE Raichur in 2008; post-graduation from MVJCE Bangalore, Karnataka in 2011. He is in to teaching field since 2010 and has worked in the institutes KNSIT Bangalore and KLETech University (formerly known as BVBCET) Hubli. His field of interest are Engineering education and System Engineering. He has Undergone IUCEE international Engineering Education Certificate program and also published several papers in engineering education. He was also resource person for Android , HTML5+javascripts Mobile Application development and has conducted several workshops. Currently he is perusing his PhD in computer science at KLETech University on parallel computing. His current area of research are Parallel Computing, AI (ML and deep learning) and compiler applications.

#### **Essentials of IT (2019)**

#### **Batch Details:**

Batch No.	Department	Roll. Nos.	Venue	Faculty
B1	Mechanical	1 to 40	LAB-5	Prof. Vijay Bajantri
B2	Mechanical	41 to 83	LAB-6	Prof. Mahesh Patil
B3	CIVIL,AR and BT	84 to 137	Microsoft Lab	Prof. Somashekar Patil

#### **Training Schedule:**

Training Dates: 23<sup>rd</sup>July 2019 to 4<sup>th</sup> August 2019 Daily Sessions: 2 Session 1:9.00 AM to 11:00 AM Session 2: 11.30 AM to 1.30 PM

#### Attendance List- 2019-20

	USN	Name	7/23/20	7/24/20	7/25/20	7/26/20	7/27/20	7/28/20	7/29/20	7/30/20	7/31/20	8/1/20	8/2/20
1.	01fe16bme228	Vishal Shridhar Vandakar	19 P	19	19	19	19	19	19	19	19	19	19
2.	01FE16BME172	Sarvesh S Sadashiyanayar	P	P	P	P	A	р	Р	P	Р	A	Р
З.	01FE16BME015	Ajaykumar Hiremath	P	P	Р	Р	A	P	Р	Р	P	A	P
4.	01fe17bme410	Basavaraj sahadev kapolkar	P	P	A	Р	Р	Р	P	P	P	P	P
5.	01FE16BME112	Nyamat Allah Noorahmad Momin	P	P	Р	A	Р	P	Р	Р	P	P	A
6.	01FE16BME211	TEJAS S LENGADE	P	P	Р	Р	Р	Р	Р	Р	A	P	P
7.	01FE16BME150	RAVI VEERAPPA HADAPAD	P	P	A	P	A	Р	P	Р	P	A	P
8,	01FE178ME408	Ananat Shrikant Inamdar	P	P.	P	A	Р	Р	P	P	P	P	A
9.	01FE168ME045	Darshan D B	P	12	Р	Р	Р	Р	Р	A	P	A	P
10.	01FE16BME152	Ritesh Madan Ghodake	P	Р	Р	A	Р	P	Р	P	P	P	P
11.	01FE16BME031	Avinash U Gollarahalli		P	A	Р	Р	Р	Р	A	Р	P	P
12.	01FE168ME060	Jayaraj F.Hiremath	P	Р	Р	A	Р	Р	P	Р	Р	P	A
13.	01FE17BME430	MD IMTIYAZ B	Р	P	A	Р	Р	Р	A	P	р	Р	Р
14.	01fe16bme025		Р	Р	A	Р	P	Р	Р	P	Р	A	A
15.	01FE16BME113	Anish Bhairava Hegde	Р	Р	Р	P	Р	Р	Р	P	Р	P	P
16.	01FE16BME217	Omkar Mahagundayya Sali	P	P	P	P	Р	P	Р	P	P	P	A
17.	01fe16bme222	Varadaraj V Tigadikar	P	A	A	P	A	Р	A	P	P	P	P
18.	01FE16BME087	Vinay M Hiremath	P -	P	Р	P	P	P	P	Р	A	P	A
19.		MANJUNATH VITTAPPA PATIL	P	P	Р	Р	Р	P	Р	P	P	P	P
20.	01FE16BME200	Sourav Kulkarni	A	P	Р	P	A	P	P	A	P	р	A
21.	01fe16bme202	Srinivas Ramesh Yelgodkar	Р	Р	Р	Р	P	P	A	P	P	A	P
22.	01FE16BME235	Sameeksha C Shetty	Р	P	Р	Р	Р	P	Р	P	P	Р	A
23.	01FE17BME445	Sanket Jagadeesh Gouri	A	A	Р	P	A	P	P	P	P	P	P
24.	01FE168ME044	Chetan Prakash Yadal	Р	Р	Р	P	P	P	Р	P	Р	Р	P
25.	01FE16BME050	G Sujay GADIGEPPA SHIVAMAHADEVAPPA	Р	Р	P	P	A	P	P	Р	A	P	P
20.	01FE17BME412	KULKARNI	Р	P	A	P	Р	Р	Р	Р	A	Р	P
26.	01FE16BME071	KEDARNATH SANJEEVKUMAR POTDAR	Р	Р	Р	P	P	Р	Р	Р	Р	Р	Р
27.	01FE16BME169	Sanket kurbet	Р	A	Р	P	Р	A	Р	P	P	P	P
28.	01fe16bme041	Chandan Basappa Maliyavar	Р	Р	Р	Р	Р	A	Р	Р	P	P	A

#### Essentials of IT 2019-20

### Essentials of IT 2019-20 Students attendance list

				tials onts at									
29.	01fe185me017	Akath M Sulbule	A.			P	1 .					A	
82.	CIFE16PA4E238	Shilpashree S Kalawad				P.	P	P				A	P
33.	01FE169ME125	PRASAN PRAKASH SUREBHAVI					P	P					ii
32.	01/E168ME142	Rahul Subodh Rayadurg					P	P			*		
35.	Dife17bme438	Mansh Patid	A					P			A	2	
34.	01PE188MR077	Kshitic Viay Georkar				P		P	P			2	
35.	01FE16EM4C232	Yogash Joshi	p		9	A		P			P.		-
36.	Otfe16bree161	Sagar Patil	9		A	P		P		P	P		P
37.	OTTELSEMITT	Rem Manpher Talla		A.	P	p		P	P.	P		A .	
38.	01401666666	Nikshep M Petili	P	p	9	P	4	P	P	P	A		1
39.	01FE16EMIE116	Pavan Anand Kulkami	P	P	P	p		P	P	P			
40.	GIPELERATEL20	Probhudev Shambhu Yavapal	P	Α.	P	P	p		P	P	P	A	- 4
41.	01/E168ME174	SHAMANTH GOPAL BIDAN	A		. P	P.	P	P	P	P	A.		
42.	QSFES7EME443	RAMAKRISHNA TATAPPA GANDOLI	ρ	P	P	A	P	P	P		P	A	
43.	DSFESERME444	Salkumar 6 Dani	P	P	P	P	P		P	P	P.		
44.	01/1148ME076	Koustub R	P	Δ.	P	P	P						
45.	01/2168441117	PavanKumar B. Nevalli	p.		Δ.	P.	P	- P				A	
46.	01/116887017	Sneha Chiniwal	P		- F	P					P	P	,
43.	01/e1Gbar055	Vinayak Mahabaleshaar Beermane		P					p			P	
48.	01fv1Gbar044	Shriya Kishore Revankar	P	A	P				A		9	P	
49.	01FE168A9030	Seethersm Namades Shahapar		P						*	9	A	6
5D.	0100848010	Apporva Anavind Sebrits	P	P	. P				9			ρ	
53.	01FE1784/401	Arrit A Dani		P	P	P.	A		9	2	A	P	+
52.	03fe36bar008	Anagha & Nooji	P			P				· P			- 4
53.	OSFESEBAR050	Tejeshwini Kort			P	P				A			-
SA.	01fe15bar022	Kunal Patri	P			P	P			P	P		-
55.	OLFELSBARD35	Samarth Shrikant Tikare			A	•	P			P	P		- 1
56.	01/c15bar035	Rohan shankargouda majigoudar	P			A.	P		P	P		A	-
5Z.	01FE16848057	Yogita Ramesh Kadammenavar		A	P		P.	P	P	P		P	-

en out -

58.	01fe16bar028	Namrata S Revankar	Esser	ntials ents a	of IT ttend	2019 ance	-20 list						
59.	01fe16bar031	Prajwal Kulkarni	A	P	Р	P	A	p	Р	Р	P	L	E
60.	01FE16BAR017		Р	P '	A	P	P	P	P	P	P	Р	P
61.	01fe16bar015	Chinmay Bhagwat	A	р	Р	P	P	P	P	P	P	A	р
62.	01FE168CV015	BHAVA SUKRUTH REDDY	P	Р	Р	p	Р	P	P	P	P	P	A
63.	01fe16bcv059	Akshaykumar Surendra Magadum	P	Р	P	A	P	P	P	P	P		P
64.		Neelamma Ranganagouda Patil Abhishek Revanasiddayya	A	Р	р	Р	P	P	P	P	P	A	P
CF.	01FE16BCV006	Hiremath	P	A	Р						-	P	A
65.	01FE16BCV029	Damodar Laxminarayan Shanbhag	A	P		P	Р	P	Р	Р	A	Р	Р
66.	01fe16bcv003	Abhinav anandgouda patil	P	P	P	P	P	Р	P	A	Р	P	P
67.	01FE16BCV100	SRISOWMYAA	P	P	A	P	Р	Р	Р	P	р	P	A
68.	01FE16BCV110	Trupti, Jayatirth, Kulkarni	A	P		Р	Р	A	Р	P	Р	P	A
69.	01FE168CV106	Syeda Ayesha	P		P	P	Р	P	Р	P	Р	Р	P
70.	01FE16BBT035	Rashmi Prabhugouda Patil	P	A	P	р	P	Р	Р	P	P	Р	A
71.	01fe16bbt011	Sheetal bedre		-	Α	Р	Р	P	P	Р	P	A	P
72.	01FE1688T040	Sakshi Nanappa Malagi	A P	P	Р	Р	Р	A	P	Р	A	P	P
73.	01FE16BME189	Shreyas S.		A	P	Р	Р	P	Р	A	Р	Р	A
74.	01FE17BME434	Pavan J. Kulkarni	P	P	P	A	Р	P	A	P	P	P	P
75.	01FE16BCV116	Viresh Sajjan	Р	P	A	P	р	Р	P	P	P	Р	A
76.	01FE168ME223		P	P .	P	P	A	Р	P	P	P	P	A
77.		Vinayak		P	P	A	р	P	P	P	P	P	P
78.	01FE17BME409	Anil Allapur	P	Р	Р	Р	P	A	P	P	P	A	P
79.	01FE17BME432	Narayan Badiger	Р	P	A	P	Р	Р	P	P	P	P	P
	01FE168ME010	Adarsh M Amargol	Р	P	P	Р	Р	Р	P	Р	Р	P	A
80.	01FE16BME046	Darshan Mattikalli	Р	P	A	Р	Р	Р	Р	р	Р	A	P
81.	01FE16BCV102	Sudha Kammar	P	A	Р	P	P	Р	Р	P	Р	P	A

### Essentials of IT 2019-20



This is to certify that

VISHAL SHRIDHAR VANDAKAR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SARVESH S SADASHIVANAVAR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

AJAYKUMAR HIREMATH

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

BASAVARAJ SAHADEV KAPOLKAR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

NYAMAT ALLAH NOORAHMAD MOMIN

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.

Dr.Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

TEJAS S LENGADE

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

### RAVI VEERAPPA HADAPAD

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

ANANAT SHRIKANT INAMDAR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

DARSHAN D B

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

**RITESH MADAN GHODAKE** 

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

AVINASH U GOLLARAHALLI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

JAYARAJ.F.HIREMATH

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

MD IMTIYAZ B

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

ANISH BHAIRAVA HEGDE

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

OMKAR MAHAGUNDAYYA SALI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

VARADARAJ V TIGADIKAR

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

VINAY M HIREMATH

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

#### MANJUNATH VITTAPPA PATIL

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>rd</sup> August 2019.



Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SOURAV KULKARNI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SRINIVAS RAMESH YELGODKAR

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SAMEEKSHA C SHETTY

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SANKET JAGADEESH GOURI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

CHETAN PRAKASH YADAL

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

G SUJAY

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

#### GADIGEPPA SHIVAMAHADEVAPPA KULKARNI

has successfully completed "Essentials of IT"

*Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

#### **KEDARNATH SANJEEVKUMAR POTDAR**

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SANKET KURBET

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

#### CHANDAN BASAPPA MALIYAVAR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

AKASH M BULBULE

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SHILPASHREE S KALAWAD

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

#### PRASAN PRAKASH SULEBHAVI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

**RAHUL SUBODH RAYADURG** 

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

MANISH PATIL

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

KSHITIZ VIJAY GAONKAR

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

Yogesh Joshi

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SAGAR PATIL

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

**RAM MANOHAR TALLA** 

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

NIKSHEP M.PATIL

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

PAVAN ANAND KULKARNI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

**PRABHUDEV SHAMBHU YAVAGAL** 

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

#### SHAMANTH GOPAL BIDARI

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

#### RAMAKRISHNA TATAPPA GANDOLI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SAIKUMAR B DANI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

KOUSTUB R

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

PAVANKUMAR B.NAVALLI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SNEHA CHINIWAL

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

VINAYAK MAHABALESHWAR BOORMANE

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SHRIYA KISHORE REVANKAR

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SEETHARAM NAMADEV SHAHAPUR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

APOORVA ARAVIND SABNIS

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

AMIT A DANI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

Anagha A Nooji

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

TEJASHWINI KORI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

KUNAL PATIL

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SAMARTH SHRIKANT TIKARE

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

**R**OHAN SHANKARGOUDA MAJIGOUDAR

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

YOGITA RAMESH KADAMMANAVAR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

NAMRATA S REVANKAR

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

PRAJWAL KULKARNI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

CHINMAY BHAGWAT

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

#### BHAVA SUKRUTH REDDY

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

AKSHAYKUMAR SURENDRA MAGADUM

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

NEELAMMA RANGANAGOUDA PATIL

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

ABHISHEK REVANASIDDAYYA HIREMATH

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

DAMODAR LAXMINARAYAN SHANBHAG

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

**ABHINAV ANANDGOUDA PATIL** 

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SRISOWMYA.A

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

TRUPTI. JAYATIRTH. KULKARNI

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SYEDA AYESHA

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

**RASHMI PRABHUGOUDA PATIL** 

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SHEETAL BEDRE

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SAKSHI NANAPPA MALAGI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

SHREYAS S.

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

PAVAN J. KULKARNI

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

VIRESH SAJJAN

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

VINAYAK

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

ANIL ALLAPUR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

NARAYAN BADIGER

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

Adarsh M Amargol

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



This is to certify that

DARSHAN MATTIKALLI

Dr. Meena S. M HoD, SoCSE

Dr. Narayan D G Coordinator



This is to certify that

SUDHA KAMMAR

has successfully completed *"Essentials of IT" Training conducted by* School of Computer Science and Engineering from 23<sup>rd</sup> July 2019 to 2<sup>nd</sup> August 2019.



Dr. Narayan D G Coordinator



#### Machine Learning Workshop (June 1 – June 15, 2020)

The workshop introduces fundamental concepts of Machine Learning and provides handson experience of implementing Machine Learning algorithms in Python programming language for solving real world problems. The Workshop was conducted by AI/ML team from School of Computer Science and Engineering.

#	Session	Concepts covered		
1.	I	Introduction to Machine Learning,		
		Supervised, Unsupervised Learning		
	II	Lab session: Demo on Classification and clustering		
2.	1	Reinforcement Learning		
	П	Lab session : Demo		
	<u> </u>	Statistics for ML		
3.	П	Lab session Correlation and regression problems.		
	I	Data Mining and Analysis		
4.	11	Lab session: Data Pre-processing techniques (Data reduction, data transformation		
		and data Discretization)		
-	I	Frequent Pattern and Association Mining		
5.	II	Lab session: Apriori algorithm.		
6.	I	Classification		
	II	Lab session: ensemble Methods		
-	I	Classification – Contd		
7.	II	Lab session: Bayesian belief networks		
8.	I	Regression – Predictive Modelling, Regularization		
	П	Lab session : Feature Selection , Metrics for Prediction , Visualization		
	I	Regression – Contd		
9.	Ш	Lab Session: Random forest , Metrics for Classification and Visualization		
10	I	Clustering		
10.	II	Lab session: Partitioning methods		
	I	Clustering – Contd		
11.	П	Lab session: Hierarchical Methods		
12.	1	Project Implementation		
	II			

Head, School of Computer Science & Engineering







Workshop

**at** June 1 – June 15, 2020

Register Early Only 40 Students are allowed



#### **Registered Students Information**

SI				
No	Students Name	USN	Email Id	Contact No
1	Karnika Bhardwaj	01FE18BCS085	karnika20k@gmail.com	6265886272
	Sakshi Jha	01FE18BCS182	jhasakshi1234@gmail.com	8105839562
	Sanjay Keshwar	01FE18BCS192	sanjaykeshwar55@gmail.com	8247496077
	Savitri Khyadad	01FE18BCS196	savitrikhyadad15@gmail.com	7899547294
	Shiva V. Naik	01FE18BCS200	shivanaik2623@gmail.com	9483426650
2	Soujanya Naik	01FE18BCS218	soujanya.bnaik@gmail.com	7349610246
_	Suraj M Dandin	01FE18BCS233	surajdandin09@gmail.com	8217703974
	Sneha K Majjigudda	01fe18bcs211	snehamajjigudda@gmail.com	9108358068
	Sindhu R Bagal	01FE18BCS209	bklsindhubagal@gmail.com	9606778207
3	Shivani Nazare	01FE18BCS201	shivaninazare1234@gmail.com	8050975649
5	Vaishnavi H	01FE18BCS244	vaishnavihayagreev05@gmail.com	6360184375
	Tatpada R	01fe18bcs239	tatpadarraikar@gmail.com	8496807037
	Madhura Shanbhag	01FE18BCS108	madhurashanbhag2001@gmail.com	7406330470
4	Swapnil Kore	01FE18BCS098	swapnillkore@gmail.com	8956285075
	Abhimalya Chowdhury	01FE18BCS007	abhimalyachowdhury@gmail.com	7349623358
	Md Zakee	01fe18bcs113	01fe18bcs113@kletech.ac.in	7892611302
	Vinay S G	01fe18bcs255	vinaygudarad@gmail.com	9513182271
	Vivek Janamatti	01fe18bcs261	svjanamatti@gmail.com	8762730328
5	Namrata K	01fe18bcs120	01fe18bcs120@kletech.ac.in	8050930537
	Vrushabh A	01FE18BCS262	vrush.amarashetty@gmail.com	9972336948
	Haritha B	01fe18bcs079	01fe18bcs079@kletech.ac.in	9381813876
	Winston Dcosta	01fe18bcs264	dcostawinston6@gmail.com	9110697931
6	Vineet Lokur	01fe18bcs259	vineetlokur@gmail.com	8861893157
Ũ	Rohan Venkatesh Sirigeri	01fe18bcs176	rohanvs2000@gmail.com	9481426558
	Sajal Porwal	01fe18bcs181	sajal.anshulp310@gmail.com	7424904298
	Abhishek PM	01FE18BCS010	abhishekpm54@gmail.com	8904657730
7	Pooja Doddannnavar	01FE18BCS141	poojadoddannavar@gmail.com	9964778281
	Anishma Naik	01FE18BCS037	anishmanaik85@gmail.com	8296942686
	Rachana patil	01FE18BCS060	patilrachna999@gmail.com	8884687777
8	Aditi Chillal	01fe18bcs014	01fe18bcs014@kletech.ac.in	7795974194
	Sridevi K	01fe18bcs221	01fe18bcs221@kletech.ac.in	8277713645



#### School of Computer Science and Engineering

	Akshata N	01fe18bcs025	01fe18bcs025@kletech.ac.in	7406613203
	Akhilesh Harti	01fe17bcs023	akhilharti92@gmail.com	8310342253
9	Abhinav Kumar	01FE18BCS008	abhinavkcs11@gmail.com	7702605221
	Nandita Malakar	01FE18BCS123	nandita31071999@gmail.com	9340908580
	Navdeep Singh Bagga	01FE18BCS127	navdeepsinghbagga1999@gmail.com	7408064159
	PavanKumar Benakatti	01FE18BCS140	pavanben1999@gmail.com	7022718392
10	Nidhi Mamadapur	01fe17bcs118	nidhimamadapur123@gmail.com	9945980414
	Prem Kulkarni	01fe17bcs141	premkulkarni16@gmail.com	9742942255
	Puroshottam Kumar	01fe18bcs160	purshottam863@gmail.com	6205827020
	Mirza Zain Baig	01fe17bcs108	zain.baig98@gmail.com	9880541870



#### **School of Computer Science & Engineering**



This is to certify that

Karnika Bhardwaj

Mr./Miss.

has successfully completed the Value Addition Training Course on

MACHINE LEARNING WORKSHOP

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE Head of Schoo **Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Sakshi Jha

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Sanjay Keshwar

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Savitri Khyadad

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Shiva V. Naik

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Soujanya Naik

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo** Controller of Examinations





This is to certify that

Mr./Miss.

Suraj M Dandin

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo** Controller of Examinations





This is to certify that

Mr./Miss.

Sneha K Majjigudda

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Sindhu R Bagal

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Shivani Nazare

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Vaishnavi H

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Tatpada Raikar

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss. Madhura Shanbhag

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Swapnil Kore** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo** Controller of Examinations





This is to certify that

Mr./Miss.

Abhimalya Chowdhury

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Md Zakee Hungund** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Vinay S G

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo** Controller of Examinations





This is to certify that

Mr./Miss.

**Vivek Janamatti** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Namrata K

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss. ...

**Vrushabh A** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Haritha B

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Winston Dcosta** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss. ...

**Vineet Lokur** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Rohan Venkatesh Sirigeri** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss. ...

**Sajal Porwal** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo** Controller of Examinations





This is to certify that

Mr./Miss.

Abhishek P M

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Pooja Doddannnavar

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Anishma Naik** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Rachana patil** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo** Controller of Examinations





This is to certify that

Mr./Miss.

**Aditi Chillal** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Sridevi K

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Akshata N** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Akhilesh Harti** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

**Abhinav Kumar** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Nandita Malakar

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Navdeep Singh Bagga

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo** Controller of Examinations





This is to certify that

Mr./Miss.

PavanKumar Benakatti

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor** Controller of Examinations





This is to certify that

Mr./Miss.

Nidhi Mamadapur

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE Head of Schoo **Course Instructor Controller of Examinations** 





This is to certify that

Mr./Miss.

Prem Kulkarni

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE Head of Schoo **Course Instructor Controller of Examinations** 





This is to certify that

Mr./Miss.

**Puroshottam Kumar** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE Head of Schoo **Course Instructor Controller of Examinations** 





This is to certify that

Mr./Miss.

Mirza Zain Baig

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Head of Schoo Course Instructor Controller of Examinations** 





This is to certify that

Mr./Miss.

**Sujay Tadahal** 

has successfully completed the Value Addition Training Course on

from 1<sup>st</sup> JUNE to 15<sup>th</sup> JUNE **Course Instructor Head of Schoo Controller of Examinations** 

# Value Added Training Course: Automotive Electronics (2016-20)



# Value Added Training (VAT)

School of Electronics & Communication Engineering

# **Automotive Electronics**

# **Course Outcomes**

- Understand automotive electronics technology basics
- Understand the use and design of automotive electronic component like ECU etc.
- Understand automotive communication protocols like CAN, LIN, MOST, Flexray.
- Understand the diagnostic tools and software

Last Date to apply – Jan 15th 2019 Training Duration – Jan 15th to May 3rd 2019 Coordinator – Prof. Venkatesh Mane Prof. Bhagyashree K mane@kletech.ac.in +91 9886654510

C	- TI 4	Comme Coder	Teach
Course Title: Automotiv		Course Code: Contact Hours: 3Hrs/week	ng Hours
L-T-P: 3-0-0	Credits: 3		
CIE Marks: 50	SEE Marks:50	Total Marks: 100	_
Teaching Hours: 40 Hrs	Examination Duration:0	5 Hrs	
Unit – I	stance Design male and Aut		
•	stems, Design cycle and Aut	-	7Hrs
		pmains and their requirements, automotive	/1115
		utomotive Electronics and interdisciplinary	
-	-	d need for electronics in automobiles and	
••	•	mobiles, Introduction to power train,	
		lamentals, Steering Control, ,Overview of	
		elopment cycles( V and A) , Components of	
	hassis, Infotainment, Body E		0.1.1
	••	ions & Automotive safety systems	8Hrs
-		outes relevant to automotive applications,	
•		nd Infineon. EMS: Engine control functions,	
•		ent of control algorithm for EMS, Look-up	
		maps, Fuel maps/tables, Ignition	
		meter testing Safety Systems in	
	assive safety systems: ABS, T	CS, ESP, Brake assist, Airbag systems etc.	
Unit –II			
Chapter 3: Automotive Se			8Hrs
	•	Redundancy of sensors in ECUs, Avoiding	
•	•	rometer (knock sensors), wheel speed	
	•	rottle position sensor, Temperature sensor,	
		ncentration sensor, Throttle plate angular	
		or, Manifold Absolute Pressure (MAP)	
sensor. Actuators: Engine (	Control Actuators, Solenoid a	ctuator, Exhaust Gas Recirculation	
Actuator.			
Chapter 4: Automotive co	mmunication protocols		7Hrs
Overview of Automotive co	ommunication protocols : CA	N, LIN , Flex Ray, MOST	
Unit –III			
Chapter 5: Advanced Driv	er Assistance Systems (ADA	S) and Functional safety standards	5Hrs
-		of assistance applications: Lane Departure	
		Pedestrian Protection, Headlights Control,	
		mous vehicles. Functional Safety: Need for	
		ess for product life cycle, safety by design,	
validation.			
Chapter 6: Diagnostics			5Hrs
• •	cs: Basic wiring system and N	Aultiplex wiring system, Preliminary checks	
-		and corrective measures, Electronic	
-		res and sequence, On board and off board	
	, OBDII, Concept of DTCs, DL	C, MIL, Freeze Frames, History memory,	

#### Text Book (List of books as mentioned in the approved syllabus)

- 1. Ribbens, Understanding of Automotive electronics, 6th Edition, Elsevier, 2003
- 2. Denton.T, Automobile Electrical and Electronic Systems, Elsevier, 3rd Edition, 2004

3. Denton.T, Advanced automotive fault diagnosis, 2000

#### References

1. Ronald K Jurgen, Automotive Electronics Handbook, 2nd Edition, McGraw-Hill, 1999

2. James D Halderman, Automotive electricity and Electronics, PHI Publication, 2000

3. Allan Bonnick, Automotive Computer Controlled Systems Diagnostic Tools and Techniques, Elsevier Science, 2001

4. Nicholas Navet , Automotive Embedded System Handbook , 2009

**Recourse Persons** 

#### Prof. Venkatesh Mane

Assistant Professor, School of Electronics and Communication Area of Interests: Automotive Electronics, RTOS, C++, AutoSAR

#### Prof. Bhagyashree K.

Assistant Professor, School of Electronics and Communication Area of Interests: Digital Electronics, Embedded Design, Automotive Electronics, RTOS

Semeste	r: VI			Time Table Term: <sup>12</sup>													
DAY/ TIME	8.00-9.00	9.00-10.00	10.00- 10.15	10.15- 11.15	11.15-12.15	12.15- 1.30	1.30-2.30	2.30-3.30	3.30-4.30	4.45-5.45							
Monday			BREAK			BREA K											
Tuesday			BREA K			BREA K				Automotiv Electronic							
Wednesday			BREAK			BREA K											
Thursday			BREA K			BREA K				Automotiv Electronic							
Friday			BREA K			BREA K											
Saturday			BREA K			BREAK	Automotive Electronics										

PREPARED BY: A. S.



( 2 APPROVED BY :Dr. Nalini C Iver

Head of School Effectronics & Communication Engg KLE Technological University



#### SCHOOL OF ELECTRONICS ENGINEERING

**Program: Minor Program** 

Attendance Sheet

From 15/19 To 3/5/19

Staff Member Name: Verkatesh M Bhogypchia

Subject: Automotive Electronics Code: MIGEECCE 301

Roll	USN	Students' Name	I	B/F	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	18	19	20	TOTAL	
No	Con	Students Name		8	21/1	23/1	25/	-38	1/2	6/2	8/2	17	43	13	12/3	3/1	2/9	21/4	23/	394				e a	9
1	01FE16BCS019	AKHILA JOSHI			P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P					-
2	01FE16BCS041	APOORVA S MALEMATH			P	P	P	P	P	P	P	P	P	P	P	P	Ø	P	P	P					
3	01FE16BCS083	JYOTHI S HOSAMANI			0	D	P	P	P	P	D	P	P	19	P	P	P	P	P	P				_	-
4	01FE16BCS113	NAMRATA HOSAMANI			D	P	P	p	A	P	P	P	P	P	p	P	P	8	P	A					+
5	01FE16BCS137	PAVAN U DURGADSIMI			P	P	P	P	P	P	p	P	P	P	P	P	P	P	P	P					+
6	01FE16BCS213	SWATI DHADEKAR			P	8		P	P	P	P	P	P	P	P	p	P	p	A	p				_	+
7	01FE16BCS242	PRAISON JOSHUA T			1	8	P	P	P	P	P	P	P	Þ	P	P	P	p	P	P					+
8	01FE16BCS250	VELLALA VINEETH KUMAR		0	P	0	P	P	P	A	D	P	P	P	R	P	p	P	P	P					+
9	01FE16BME055	GURURAJ GIRISH TONAPI			P	P	P	P	P	D	P	p	Þ	P	P	D	P	P	p	P					+
10	01FE16BME065	KAPIL S KALGUTKAR			P	P	P	P	P	P	P	P	P	P	P	P	P	P	p	p					+
11	01FE16BME115	PANKAJANABH V SHETTI			P	D	P	A	P	P	P	P	P	p	P	P	P	P	P	p					+
12	01FE16BME137	RAHUL KHAN				-	-	-		-		-	-							-	 				+
(13)	01FE16BME180	SHASHIKANT A ANGADI			_		-	_											_			_			+
14	01FE16BME181	SHIDDALINGESH V ANGADI			P	P	P	P	P	Ð	P	P	P	P	P	P	P	P	P	p					+
15	01FE16BME211	TEJAS SUJIT LENGADE			P	A	P	P	P	P	P	P	P	P	A	P	P	P	D	P					+
16	01FE17BME436	PRAJWAL F PUTTIYAVAR			P	P	P	P	P	P	P	P	P	P	P	P	P	D	P	p					+
17)	01FE17BME455	VIJAYAKUMARREDDY B			-	-	-	-		-	-	-	1	1		-		7	-	-	 				+

B/F: Brought Forward; e: Classes Engaged; a: Classes Attended; Note: Mark P for Present and A for Absent (For Practical/Lab. Classes the attendance sheet shall be maintained batch wise)

Signature of Staff Member:

Co-ordinator School of Electronics





This is to certify that

**AKHILA JOSHI** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**APOORVA S MALEMATH** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**GURURAJ GIRISH TONAPI** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

JYOTHI S HOSAMANI

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**KAPIL S KALGUTKAR** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

Controller of Examinations

Head of School

N. Com





This is to certify that

NAMRATA HOSAMANI

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

PANKAJANABH V SHETTI

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

**Course Instructor** 

Head of School





This is to certify that

**PAVAN U DURGADSIMI** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

**Course Instructor** 

Head of School





This is to certify that

**PRAISON JOSHUA T** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

**Course Instructor** 

Head of School





This is to certify that

PRAJWAL F PUTTIYAVAR

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

SHIDDALINGESH V ANGADI 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

**Course Instructor** 

Head of School





This is to certify that

**SWATI DHADEKAR** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**TEJAS SUJIT LENGADE** 

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**VELLALA VINEETH KUMAR** .....

has successfully completed the Value Addition Training Course on

**Automotive Electronics** 

from 15/01/2019 to 03/05/2019

Mr./Miss.

N. Com

Controller of Examinations

**Course Instructor** 

Head of School

Value Added Training Course: Project Work (2016-20)



# Value Added Training (VAT)

**School of Electronics & Communication Engineering** 

# <u>Project</u>

# **Project Outcomes**

- 1. Perform effective literature survey used to solve engineering problem.
- 2. Apply the knowledge of all electronic courses in project work.
- 3. Use of appropriate modern tools to execute the project work.
- 4. Communicate effectively and develop writing competence through technical report and presentations.

Last Date to apply – June 10th 2019 Training Duration – June 10th to Aug 01st 2019 Coordinator –Prof. Nalini C Prof. R. M. Shet raghu@kletech.ac.in +91 9886659327

	Minor in Electronics		Teaching
Course Title: Project		Course Code: M16EECW301	Hours
L-T-P: 0-0-2	Credits: 2	Contact Hours: 5 Hrs/week	
CIE Marks: 50	SEE Marks:50	Total Marks: 100	
<b>Teaching Hours: 5Hrs</b>	Examination Duration: 02 Hrs		
Theme : Embedded Applie			
Project Work for minor Co	orse in Electronics includes.		
Tasks:			
Sensor Selection a	nd Characterization to acquire real w	orld data	
Signal Conditionin	ng for acquired data		
Signal processing     protocol	and interfacing with suitable control	Oller using proper communication	05Hrs
Actuator selection	and Interfacing		
Deliverables			
Complete ES to de	emonstrate the functionalities of the c	hosen application	

#### **Recourse Persons**

#### Prof. Nalini C. Iyer

Professor, School of Electronics and Communication Area of Interests: Network Security, Embedded Design, Automotive Electronics

#### Prof. R. M. Shet

I

Assistant Professor, School of Electronics and Communication Area of Interest: Signals and Systems, DSP, Process control, Automation, Control System

DAY/TIME 10.00 10.15 12.15	Semest	er: VI-S			Time 1	Term: Sure 10 th . Aug 01 th							
Monday     BREA K     K       Tuesday     BREA K     Project Review       Wednesday     BREA K       BREA K     BREA K	DAY/ TIME	8.00-9.00	9.00-10.00		11.15-12.15	1.30-2.30	Colorado de Coloradores de	4.45-5.45					
Nednesday BREA BREA BREA	Monday												
Nednesday BREA K	Tuesday				Project R								
BREA	Vednesday			BREAK									
and the second sec	Thursday												
Friday BREA K	Friday												

Arain PREPARED

B VERIFIED BY: R. M. Shet

N( APPROVED BY :DI

Head of School Electronics & Communication Energy KLE Technological University



#### SCHOOL OF ELECTRONICS ENGINEERING

Program: Minor Program

| D.X. Nalini C<br>R. M. Stat<br>Students' Name<br>AKHILA JOSHI<br>APOORVA S MALEMATH<br>JYOTHI S HOSAMANI | e   | B/F   | 1  | 1  |  | 20  | je                                   | X  |  |  |  |   
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| 5 PANKAJANABH V SHETTI   |   |   | P  | P  | 1  | ρ   | P                                    |  |  |  |  |   
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B/F: Brought Forward; e: Classes Engaged; a: Classes Attended; Note: Mark P for Present and A for Absent (For Practical/Lab. Classes the attendance sheet shall be maintained batch wise)

Signature of Staff Member:

Co-ordinator School of Electronics





This is to certify that

**AKHILA JOSHI** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**APOORVA S MALEMATH** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**GURURAJ GIRISH TONAPI** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

**Course Instructor** 

Head of School





This is to certify that

**JYOTHI S HOSAMANI** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**KAPIL S KALGUTKAR** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

**Course Instructor** 

Head of School





This is to certify that

NAMRATA HOSAMANI

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

PANKAJANABH V SHETTI

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**PAVAN U DURGADSIMI** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.



Controller of Examinations

Head of School





This is to certify that

**PRAISON JOSHUA T** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

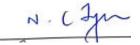
Mr./Miss.

SHIDDALINGESH V ANGADI 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019



Controller of Examinations

Head of School





This is to certify that

SWATI DHADEKAR

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School





This is to certify that

**VELLALA VINEETH KUMAR** 

has successfully completed the Value Addition Training Course on

**Project Work** 

from 10/06/2019 to 01/08/2019

Mr./Miss.

N. Com

Controller of Examinations

Head of School



# Value Added Training (VAT)



## Fundamentals of Business, Venture Investments and Intellectual Property

### **Course Outcome**

- Evaluate user experience with prototype and build product
- Create a Business Plan and pitch deck
- Apply for patent/trademark/copyright



Last Date to apply – 29<sup>th</sup> Oct 2018 Program Duration – Nov 2019 to Jan 2020 Coordinator – Ms. Soumya Kudagi soumya.kudagi@kletech.ac.in +91 98867 07196





#### CENTER FOR TECHNOLOGY INNOVATION AND ENTREPRENEURSHIP

#### VALUE ADDED TRAINING

#### Fundamentals of Business, Venture Investment and Intellectual Property

This course enables the students to understand the Business basics, how and why is external funding/ investment required in the business and how-to safeguard the business by filing for the right kind of intellectual property.

#### It will cover:

• Fundamentals of Business – What it takes to build a successful business. Be it people, operations, accounting, strategy, finance and marketing, how to address it all and run an organization. How to address conflicting roles/responsibilities and address the team for positive growth of organization.

Teams must have all the details ready to register themselves as a company. They must identify and assign roles and responsibilities to every team member and run their business.

Venture Investment – Why is it important to raise money in first place. Whom can you raise the funds from? Right from family to friends, to angel investors, seed capital, to venture capitalist – Series A, Series B, Series C funding to private equity to IPO, how the evolution of funding occurs in a business. Analysing at what stage of business growth, what kind of funding is relevant.

Teams must have the business plan including market and financial details – break even, revenue and profits over next five years and the pitch deck ready to be presented to the investors.

Intellectual Property – What is that one thing in your business which you do not want your competitors to copy or copy easily, can you protect it by filing for copywrite, trademark or patent. Is this intellectual property already identified or about to be created? How does valuation of a company change basis the strong backing of intellectual property.

Teams must develop the product, understand the engineering that has gone in developing the product. Teams must also file for patents to protect themselves.

#### After successful completion of this course students should be able to

- Evaluate user experience with prototype and build product, L5
- Create a Business Plan and pitch deck, L5
- Apply for patent/trademark/copyright, L5

#### Syllabus

- Fundamentals of Business List out people, operations, accounting, strategy, finance and/or marketing requirements for your venture
  - Evaluate requirements to build sustainable and scalable business, L5
  - o Identify support/partners required for business to grow, L4
- Venture Investment Evaluate between choice of investment options from family, friends to venture capitalist and private equity





- Identify funding requirements and its volume, L4
- Analyse how the business would grow with funds coming in, L4
- Intellectual Property copywrites, trademarks, patents
  - o Identify the need to protect business by having intellectual property, L4
  - o Identify what feature can be protected, L4
  - Evaluate firm valuation post having intellectual property, L5

The course will be delivered with workshops held on defined topics intermittently. This course is more for students to work on their own and develop materials to set up their venture.

#### Grading

SI No	Particulars	Marks
1	Attendance & Class Participation	10
2	Assignments & Class based activity	10
3	IP creation and protection	20
4	Report & Presentation	60
	Total	100

The students are continuously graded on their performance during the course. There is no term end examination for the course.

#### **Attendance & Class Participation**

Evaluation of individual student interaction in the class with the resource person and the course coordinator. Tracking student attendance and awarding marks to it accordingly.

#### Assignments & Class based activity

The students need to submit periodical assignments which is either individual and/or team based.

During the workshops and regular classes, since we emphasise on experiential learning, we have a lot of activities, were students work individually or as a team to achieve the desired results.

#### File Patent/s

Teams now need to identify that core part of product which needs to be protected and which they do not want the competitor to replicate. Hence it is essential they file for suitable patents.

#### **Report & Presentation**

Students need to demonstrate the product during the presentation supported by business plan and pitch deck. The progress of intellectual property protection to be discussed during final presentations.



Anand has over 26 years of experience in various industries spanning across many geographies across the world. For the last 16 years he has been involved in innovations in financial services sector where he established Fintech presence in global payments space in two leading banks, one in Malaysia at a Financial conglomerate called CIMB Group as Managing Director, of Global retail payments. He developed a highly successful product called Speedsend which was a leading payments service originating in many countries in South East Asia and South Asia.

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He also managed global payments business for a leading Fortune 500 company called Western Union in India, Nepal, Srilanka, Maldives, Singapore, Indonesia, Malaysia.

Apart from Payments Fintech experience Anand has diverse industry exposure. He worked in office equipments, garments, telecom, FMCG and B2B online business where in he was involved in creating products, building brands, marketing and leading teams. Anand had good understanding of these industries as well.

After 26 years of rich experience in corporate world Anand decided to plunge into something very radical to pursue a passion which he had throughout his life, Organic farming. He shifted his base to Dharwad, Karnataka from Dubai and indulged in developing an Organic Farm growing Organic Alphonso Mangoes and other products. These mangoes are now being sold directly to customer without any intervention from middlemen across India and exported to UAE. His passion is to extend this zero budget farming across many communities, develop intense afforestation in depleted forest areas, implement water retention and conservation projects. He wants to share and help other farmers in the region to adopt these which have been successfully implemented in his farm.

Anand's passion is not only in creating and building innovation but also developing, grooming and mentoring his team into great teams which delivered very successful products and remained to be highly engaged and empowered teams across companies. He wants to pursue development and mentoring of professionals and entrepreneurs and help them succeed in their respective ventures.

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#### EDUCATION

1993

KARNATAKA UNIVERSITY- Kousali Institute of Management Studies, Dharwad, India Master of Business Administration.

### Soumya Kudagi

Mobile: +91 ~ 9886707196

E Mail: soumya.kudagi@gmail.com

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			1				
SL No	Name	USN	Department	05-12-2019	06-12-2019	07-12-2019	08-12-2019
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Fundamentals of Business, Venture Investment and Intellectual Property

from 01-11-2019 to 31-01-2020



Mr./Miss.

**Director - CTIE** 





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Mr./Miss.

**Director - CTIE** 





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Mr./Miss.

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Mr./Miss.

**Director - CTIE** 



# Value Added Training (VAT)



## Lean Startup and Product Design

### **Course Outcome**

- Create MVP for the defined problem
- Modify and validate MVP depending on customer's response
- Create Business Model Canvas
- Apply UI/UX and/or Product Design for building their product/services
- Create prototype for market validation



Last Date to apply – 29<sup>th</sup> July 2018 Program Duration – Aug 2019 to Dec 2019 Coordinator – Ms. Soumya Kudagi soumya.kudagi@kletech.ac.in +91 98867 07196





#### CENTER FOR TECHNOLOGY INNOVATION AND ENTREPRENEURSHIP

#### VALUE ADDED TRAINING

#### Lean Startup and Product Design

This course enables the students to design their Minimum Viable Product (MVP) and start their Lean Ventures.

#### It will cover:

- Lean Startup
  - Customer Discovery The students will majorly focus on taking the early stage prototype to the customer. It could be in the form of sketch or a model made of card board, very early stage prototype that resembles the final product. They will gain great insights into look and feel of the product, the functionality aspects, customer's association with it and would the customers recommend others to try it. This will help in nailing down the need and problem statement most appropriately and helps to get the idea validated.
  - MVP The student teams will apply principles of lean startup to build better and sustainable business. From customer discovery to making solution that is useful to pivoting MVP The experience of launching their MVP to the target group, testing the MVP in real market, re-working on the failures, and getting back to market with matured offerings. Lean startup does not deal essentially with product alone, but also on the way of setting up the whole business. Teams carry out the fundamental activity of a startup which is to build measure learn.
- Business Model Canvas A holistic view of how your business is going to look like. From the customer stand point what is the value the business is creating to its customers, through what channels and how is the customer relationship being managed. How do these change basis different segments the teams decide to work with. From the business point who are the key partners, what are the key resources and the key activities to be deployed to create the necessary value to pull the customer to business offerings. This one view of the business is what the teams should work on to make it a reality.
- Product Design (UI/UX and Industrial Design) Depending on the responses received on MVP, if it's a software-based problem then students will apply principles of UI/UX Design and for an engineering product, students will apply principles of Industrial Design. If the product has both software and hardware components, students will apply principles of UI/UX and Industrial Design.

#### After successful completion of this course students should be able to

- Create MVP for the defined problem, L6
- Modify and validate MVP depending on customer's response, L3
- Create Business Model Canvas, L4
- Apply UI/UX and/or Product Design for building their product/services, L4
- Create prototype for market validation, L6





#### Syllabus

- Lean Startup MVP, customer discovery, continuous deployment, split testing, actionable metrics, pivot, innovation accounting, build measure learn. A workshop for 20hrs on lean startup would be engaged where students experientially understand how to build a MVP.
  - Create MVP for defined problem, L6
  - $\circ$  Choose appropriate methods of observing and interviewing customers, L3
  - Analyse customer inputs, L4
  - Evaluate MVP with customer inputs, L5
  - o Create Business Model Canvas, L4
  - o Apply Lean principles to build a sustainable business, L3
- UI/UX Design understand, research, sketch, design and implement. A workshop on UI/UX design consisting of 10hrs of engagement would be conducted to help students understand the details of it.
  - Apply UI/UX design on defined problem, L3
- Product Design product concept, research, product design development, research and development of final design, CAD, CAM, prototype testing, manufacturing, assembly, feedback and testing, product development, final product. A workshop on product design consisting of 10hrs of engagement would be conducted to help students understand the details of it.
  - Apply Product Design on defined problem, L3

The students are however encouraged to utilize the resources on campus to build their product prototypes and connect with related faculty members for helping them with same.

#### Grading

SI No	Particulars	Marks
1	Attendance & Class Participation	10
2	Self-Assessment/Analysis	10
3	Assignments	20
4	Report & Presentation	60
	Total	100

The students are continuously graded on their performance during the course. There is no term end examination for the course.

#### Attendance & Class Participation

Evaluation of individual student interaction in the class with the resource person and the course coordinator. Tracking student attendance and awarding marks to it accordingly.

#### Self – Assessment/Analysis

Students now need to start understanding areas in which they are strong and areas in which they need more efforts to be put in. This will help them to enhance their knowledge and also assist each other





in team to take things forward. It is individual score to be allotted to each student. Peer to peer scoring can be a part of it, if required.

#### Assignments

The students need to submit periodical assignments which is either individual and/or team based.

#### **Report & Presentation**

The course presentation is divided into three phases.

#### **Phase I Evaluation**

An evaluation post the customer discovery stage, where the student will share their inputs on how the customer responded to their product/service offering, areas to improve on and need of such product/service in their day to day life. Students to be assessed on, whether the gaps have been addressed appropriately and is this the best way to go about solving it. Teams to demonstrate the customer survey if needed by the panel.

#### **Phase II Evaluation**

An evaluation post the MVP stage, to understand how the MVP faired in real market, the inputs the teams received to improvise their offerings on and what is the teams reflections on such inputs. A plan on what is it that the team wants to have and not have in the final product offering and how can the value proposition be enhanced. Teams to demonstrate their MVP during the presentation.

#### **Phase III Evaluation**

An evaluation post the UI/UX and Product Design phase, where the team will in-elaborate discuss their designs. The teams would now emphasize on the Business Model Canvas and explain in detail how each entity is value adding in their business development. Teams to demonstrate the proof of concept.

The course report would consist of a well thought through product, the MVP (pictures, diagrams, CAD models), Business Model Canvas, how the BMC is applied to structure team specific business, UIUX/Product design applied to develop the product POC. Overall plan based on concepts of lean startup methodology.



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1993

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				8hrs	8hrs	8hrs	8hrs
SL No	Name	USN	Department	29-11-2019	30-11-2019	01-12-2019	02-12-2019
1	PRAJHOT R NAIK	01FE16BME121	ME	Р	А	A	Р
2	HARISH A VERNEKAR	01FE16BME056	ME	Р	А	А	А
3	JUSTIN AUGISTINE PINHEIRO	01FE16BME062	ME	Р	Р	Р	Р
4	SURAJ REDDY	01FE16BME207	ME	A	А	А	Р
5	SAMARTH TIKARE	01FE16BAR036	A&R	A	Р	A	Р
6	RAJAT MEHTA	01FE16BEE076	EE	A	A	Р	Ρ
7	SHYAM SUNDAR AGARWAL	01FE16BCS197	CS	Р	Α	Α	Ρ
8	SWATI BASAVARAJ D	01FE16BEC195	CS	Р	Р	Р	Р
9	PRIYANKA NABAPURE	01FE16BCS243	CS	А	А	А	А
10	NISHANTH B S	01FE16BME110	ME	A	Α	Α	А
11	MEGHA KOUJAGERI	01FE16BCS241	CS	Р	Р	Р	Р
12	KAJAL JAIN	01FE16BCS087	CS	Р	Р	Р	Р
13	GREESHMA KATARKI	01FE16BCS072	CS	А	А	А	Р
14	NAMITA RAYANGOUDAR	01FE16BCS112	CS	Р	Р	Р	Ρ
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Lean Startup and Product Design

from 01-08-2019 to 31-12-2019



Mr./Miss.

**Director - CTIE** 





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Mr./Miss.

**Controller of Examinations** 

Director - CTIE





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**Course Instructor** 

Mr./Miss.

Director - CTIE



# Value Added Training (VAT)



## **New Venture Formation**

### **Course Outcome**

- Create and launch a venture of their own
- Seek investment
- Build teams
- Sourcing & Manufacturing of the product
- Final launch of the product



Last Date to apply – 29<sup>th</sup> Oct 2018 Program Duration – Nov 2019 to Jan 2020 Coordinator – Ms. Soumya Kudagi soumya.kudagi@kletech.ac.in +91 98867 07196





#### CENTER FOR TECHNOLOGY INNOVATION AND ENTREPRENEURSHIP

#### VALUE ADDED TRAINING

#### **New Venture Formation**

#### It will cover:

 New Venture Formation – Teams must plan a small-scale launch for the product built and sell it to the test market, and record user reviews on the product. They must decide on the final product features, pricing, how to go about branding their product/venture and plan for final launch. They need to look into business development of their venture and plan for large scale production. They need to valuate their firm and plan to raise several stages of investment.

#### After successful completion of this course students should be able to

- Create and launch a venture of their own, L6
- Seek investment, L5
- Build teams, L6
- Sourcing & Manufacturing of the product, L6
- Final launch of the product, L5

#### Syllabus

- New Venture Formation Teams must plan on taking product to the market by first testing the product in the test market, getting user reviews on the same and implementing changes if required. Plan the pricing of the product, plan for large scale production and valuate the firm to raise investments.
  - Analyse features to be retained and /or discarded, L4
  - Plan pricing strategy, L6
  - Valuate firm to raise investments, L6
  - Prepare final business plan, L4

#### Grading

SI No	Particulars	Marks
1	Running the business venture for six months	80
2	Report	20
	Total	100

The students are continuously graded on their performance during the course. There is no term end examination for the course.





#### Running the business venture for six months

The students need to launch and run their business venture successfully for six months at least. It could be in any location they choose to.

#### Report

A report consisting of learning of six months of marketing and selling the product, final business plan and an investment pitch deck that can be presented for the seed or VC Investment.

#### Soumya Kudagi

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E Mail: soumya.kudagi@gmail.com

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**Course Instructor** 

Mr./Miss.

**Director - CTIE** 





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**Director - CTIE** 

Value Added Training Program for Product Development and Realization



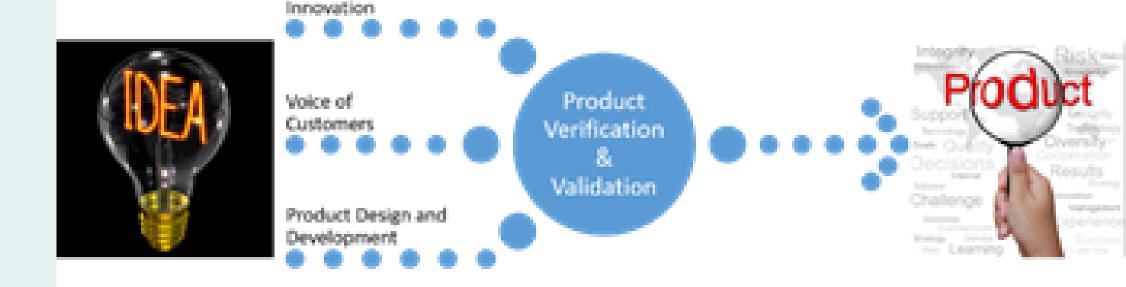
KLE Technological Univesity, Hubli

Center for Innovation and Product Development (CIPD) School of Mechanical Engineeri



Jan 2020

3 Credits



# **Course Highlights:**

# **Product Development Process**

Part manufacturing processes, Design and functional review methods, Assembly process and virtual builds, Quality goals and control plans

# Guidelines

- Intake: Maximum of 20 students
- Eligibility: Applicants must have CGPA 6.75 (I & II Semester) without any backlogs

# **Product Verification and Validation**

Load goals and duty cycle definition, Reliability and durability goals, Virtual prototyping techniques, Accelerated product verification methods

# Product family management

Product lifecycle management; Evolution of product models and families, Modeling of product family lifecycle, Product Strategy, Product market positioning, Product positioning – psychological, Brand, customer segment.

# Technology management

Technology management methods, Technology as a competitive tool, Critical Component Development Process, Technology Development Process

- Who can apply: Students of 2ND Year B.E. of all branches
- Last Date for Submitting Application: Dec 27, 2019
- Notification for Selected Students: Jan 04, 2020

# • Registration Date: declardinator:

Mr. Ashwin K Assistant Professor School of Mechanical Engineering Email: ashwinrk@kletech.ac.in , 7405483468 Head:

# Dr. Ravi Guttal

Professor, School of Mechanical Engineering Director, Center for Innovation and Product

# Development

Email:ravi\_g@kletech.ac.in ,Ph: 9923800242

Download Application from : student.kletech.ac.in Filled-in applications are to be submitted to the Coordinator of Minor Programmes Dr. Anil S Badiger, Professor, School of Mechanical Engineering, KLE Tech.,



#### Semester VI

Course Code: M16EPDC302	Course Title: Product Development and Realizatio										
L-T-P: 1-1-2	Credits: 4	Contact Hrs: 7									
ISA Marks: 60	ESA Marks: 40	Total Marks: 100									
Teaching Hrs: 12	Tutorial + Project Hrs: 72	Exam Duration: Continuous evaluation									

#### **Curriculum Content**

#### **Course Outcomes**

After successful completion of this course, students shall be able to

- 1. Develop a manufacturing road-map for a product
- 2. Layout Product Verification and Validation plan for a product duty cycle, load goals
- 3. Imbibe how to develop a product family from a successful product
- 4. Develop a technology development strategy and a technology road-map for a product

Topics	Lecture
Product Development Process	4 hours
Part manufacturing processes, Design and functional review methods, Assembly process and virtual builds, Quality goals and control plans	
Product Verification and Validation	4 hours
Load goals and duty cycle definition, Reliability and durability goals, Virtual prototyping techniques, Accelerated product verification methods	
Product family management	2 hours
Product lifecycle management; Evolution of product models and families, Modeling of product family lifecycle, Product Strategy, Product market positioning, Product positioning – psychological, Brand, customer segment.	
Technology management	2 hours
Technology management methods, Technology as a competitive tool, Critical Component Development Process, Technology Development Process	2 110015
References	
Product Design and Development by Karl Ulrich and Steven Eppinge	
The PDMA Handbook of New Product Development, Second Edition by Kenneth B. Kahn	
Innovation in Product Design: From CAD to Virtual Prototyping by Monica Bordegoni (Editor), Caterina Rizzi (Editor)	

#### Dr. Ravi Guttal

#### **Education:**

Bachelor of Engineering – Civil Engineering: NIT – Karnataka - 1988 Master of Engineering – Structural Engineering: Indian Institute of Science -1990 Master of Science in Robotics: Carnegie Mellon Univ. – Pittsburgh, PA, USA - 1991 Doctorate in Engineering Mechanics: Rensselaer, Troy NY, USA – 1995 Masters in Business Management: Rensselaer, Troy NY, USA - 2003

#### **Professional Career:**

TRW – Vehicle Safety Systems Washington, MI, USA – Senior Consultant – '95 – '00 John Deere Harvester Works, Silvis, IL, USA – Senior Engineer – '00 – '05 John Deere Technology Center, Pune, India - Head, Engineering '05 – '08 John Deere India – Head, Business Development and strategic planning '08 – '09 John Deere India – Head, Harvesters and Crop Solutions Business Unit '09 – '10 John Deere India – Head, India Program Management (NPI) '10 – 'Sept. 12 John Deere India – VP and Director – Operations, Programs and Manufacturing Strategy – Sept. '12 – April '16 KLE Technological University – Director – Center for Innovation and Product Development – Aug. '16 – till date

#### **Key achievements:**

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Responsible for providing program management support for multiple platforms and works closely with product line Program Managers.

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Responsibility for Operations and P&L of three units manufacturing Harvesters, Water equipment and Electronic systems.

Ownership of John Deere's New Crop Harvesting, Crop Care Product Programs and manufacturing strategy in India

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Established a green field center within KLE Tech. University to develop products with social impact.

Introduced Minor degree program in Innovation and Product development.

Licensed one bio-mass processing product to a manufacturing partner for commercialization.

Two patents has been filed and approved.



#### Value Added Training -7th sem odd

2018-19

Product Design and Development- 7th sem odd

	Attendence list																																								
SI no	Name	DEPT	ID	C1	C2	T1	C3	C4	T2	C5	C6	T3	C7	C8	T4	C9	C10	T5	C11	C12	T6	C14	T7	C15	C16	T8	C17	C18	T9	C19	C20	T10	C21	C22	: T11	L C23	3 C2	24	# A	.bs % F	PRESENT
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2	RAVEENA PATIL	BT	01FE17BBT038-M	а	р	а	р	р	р	р	Р	Р	Р	Р	Р	а	Р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	p		2	94%
3	DARSHAN BANGERA ALIKE	CS	01FE17BCS066-M	а	а	а	р	р	р	р	Р	Р	Р	Р	Р	р	Ρ	р	а	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	p		3	91%
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5	SHREYA MELAMALAGI	E&E	01FE17BEE094-M	р	р	р	а	р	р	а	Р	Р	р	р	р	а	Р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	р	p	ρ		1	97%
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Time Table Schedule for VAT Courses: VAT Name:

Product Realization	Development ar	dM16EPDC302	WEDNESDAY	1st floor Athena Bldg	17:00:00
Product Realization	Development ar	dM16EPDC302	FRIDAY	1st floor Athena Bldg	17:00:00
Product Realization	-	dM16EPDC302	SATURDAY	1st floor Athena Bldg	12:30:00







This is to certify that

Mr./Miss.

**AKSHAY GANAPATI BHATKOORSE** 

.....

has successfully completed the Value Addition Training Course on

**Product Development and Realization** 

from 1/9/2020 to 10/9/2020

Forthe Course Instructor

**Controller of Examinations** 





This is to certify that

Mr./Miss.

**DARSHAN BANGERA ALIKE** 

has successfully completed the Value Addition Training Course on

**Product Development and Realization** 

from 1/9/2020 to 10/9/2020

.....

Forthe Course Instructor

**Controller of Examinations** 





This is to certify that

Mr./Miss.

**RACHANA MAHINDRAKAR** 

has successfully completed the Value Addition Training Course on

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This is to certify that

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from 1/9/2020 to 10/9/2020

Forth **Course Instructor** 

Mr./Miss.

**Controller of Examinations** 





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SEEMA HUSSAINBADASHAH

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from 1/9/2020 to 10/9/2020

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Forth Course Instructor

**Controller of Examinations** 





This is to certify that

SHREYA MELAMALAGI

has successfully completed the Value Addition Training Course on

**Product Development and Realization** 

from 1/9/2020 to 10/9/2020

Forthe **Course Instructor** 

Mr./Miss.

**Controller of Examinations** 





This is to certify that

**VANKADARU VENKAT SAAI** .....

has successfully completed the Value Addition Training Course on

**Product Development and Realization** 

from 1/9/2020 to 10/9/2020

Forth Course Instructor

Mr./Miss.

**Controller of Examinations** 

Value Added Training Program for Organizational Behavior and Business Analytics for Product Development



KLE Technological Univesity, Hubli Center for Innovation and Product Development (CIPD) School of Mechanical Engineeri



# **Course Highlights:**

Business Analytics for Product Development

Engineering Economics – Basics, Product and Customer economics, Finance for product development, Product pricing and costing techniques, Evaluation of product business opportunity – Return on Investment for a product business

# Guidelines

- Intake: Maximum of 20 students
- Eligibility: Applicants must have CGPA 6.75 (I & II Semester) without any backlogs

# Organizational Behaviour for Product Development

Organizational structure for product development, Conflict resolution and negotiation techniques; Understanding team dynamics and influencing without authority, Professional communication skills,

# Project and Program Management (Stagegate process)

- Who can apply: Students of 2ND Year B.E. of all branches
- Last Date for Submitting Application: July 27, 2019
- Notification for Selected Students: Aug 04, 2019

# • Registration Date: Aug 14, 2019

Mr. Ashwin K Assistant Professor School of Mechanical Engineering Email: ashwinrk@kletech.ac.in , 7405483468 Head: Dr. Ravi Guttal Professor, School of Mechanical Engineering Director, Center for Innovation and Product Development

Email:ravi\_g@kletech.ac.in ,Ph: 9923800242

Download Application from : student.kletech.ac.in Filled-in applications are to be submitted to the Coordinator of Minor Programmes Dr. Anil S Badiger, Professor, School of Mechanical Engineering, KLE Tech.,



#### Semester V

#### **Curriculum Content**

Course Code: M16EPDC301	Course Title: Organization Analytics f	al Behavior and Business or Product Development
L-T-P: 1-1-0	Credits: 2	Contact Hrs: 3
ISA Marks: 60	ESA Marks: 40	Total Marks: 100
Teaching Hrs: 12	Tutorial Hrs: 24	Exam Duration: Continuous evaluation

#### **Course Outcomes**

After successful completion of this course, students shall be able to

- 1. Analyze and evaluate business viability for a product business opportunity
- 2. Develop product pricing and costing strategies
- 3. Understand different aspects of team dynamics and organizational behavior
- 4. Develop a road-map for product program

Topics	Lecture
Business Analytics for Product Development	6 hours
Engineering Economics – Basics, Product and Customer economics, Finance for product development, Product pricing and costing techniques, Evaluation of product business opportunity - Return on Investment for a product business	
Organizational Behaviour for Product Development	4 hours
Organizational structure for product development, Conflict resolution and negotiation techniques; Understanding team dynamics and influencing without authority, Professional communication skills,	
Project and Program Management (Stage-gate process)	2 hours
References	
The Standard for Program Management – PMI	
Finance Basics by Harvard Business Review	

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#### Value Added Training -6th sem Summer

2018-19

#### Organizational Behaviour and Failure Analysis- 6th sem Summer

	Attendence list																																								
																																						1			
SI no	Name	DEPT	ID	C1	C2	T1	C3	C4	T2	C5	C6	T3	C7	C8	T4	C9	C10	T5	C11	C12	T6	C14	T7	C15	C16	T8	C17	C18	Т9	C19	C20	T10	C21	C22	T11	C23	C24	ŧ	# Abs	% PR	ESENT
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Time Table Schedule for VAT Courses:

VAT Name: Organizational Behavior and Business Analytics for Product Development

Organizational Behavior and Business Analytics for Product Development	M16EPDC301	WEDNESDAY	1st floor Athena Bldg	17:00:00
Organizational Behavior and Business Analytics for Product Development	M16EPDC301	FRIDAY	1st floor Athena Bldg	17:00:00
Organizational Behavior and Business Analytics for Product Development	M16EPDC301	SATURDAY	1st floor Athena Bldg	12:30:00





This is to certify that

**AKSHAY GANAPATI BHATKOORSE** 

has successfully completed the Value Addition Training Course on

**Organizational Behavior and Business Analytics for Product Development** 

from 8/26/2019 to 12/14/2019

Forthe Course Instructor

Mr./Miss.

**Controller of Examinations** 





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Finth Course Instructor

Mr./Miss.



**Controller of Examinations** 





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Forthe **Course Instructor** 

Mr./Miss.



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**Controller of Examinations** 





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