Coffee & Code ;

An Initiative by the Department of Computer Engineering

VISION

To be recognized as a department that provides quality technical education and research opportunities that eventually caters to helping and serving the community.

MISSION

- To groom the students to participate in curricular and co-curricular activities by providing efficient resources.
- To motivate the students to solve real world problems to help the society grow.
- To provide a learning ambience to enhance innovations, team spirit and leadership qualities for students.

Contents:

Prepared by:

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MRS. HEZAL LOPES

In Association with

CESA

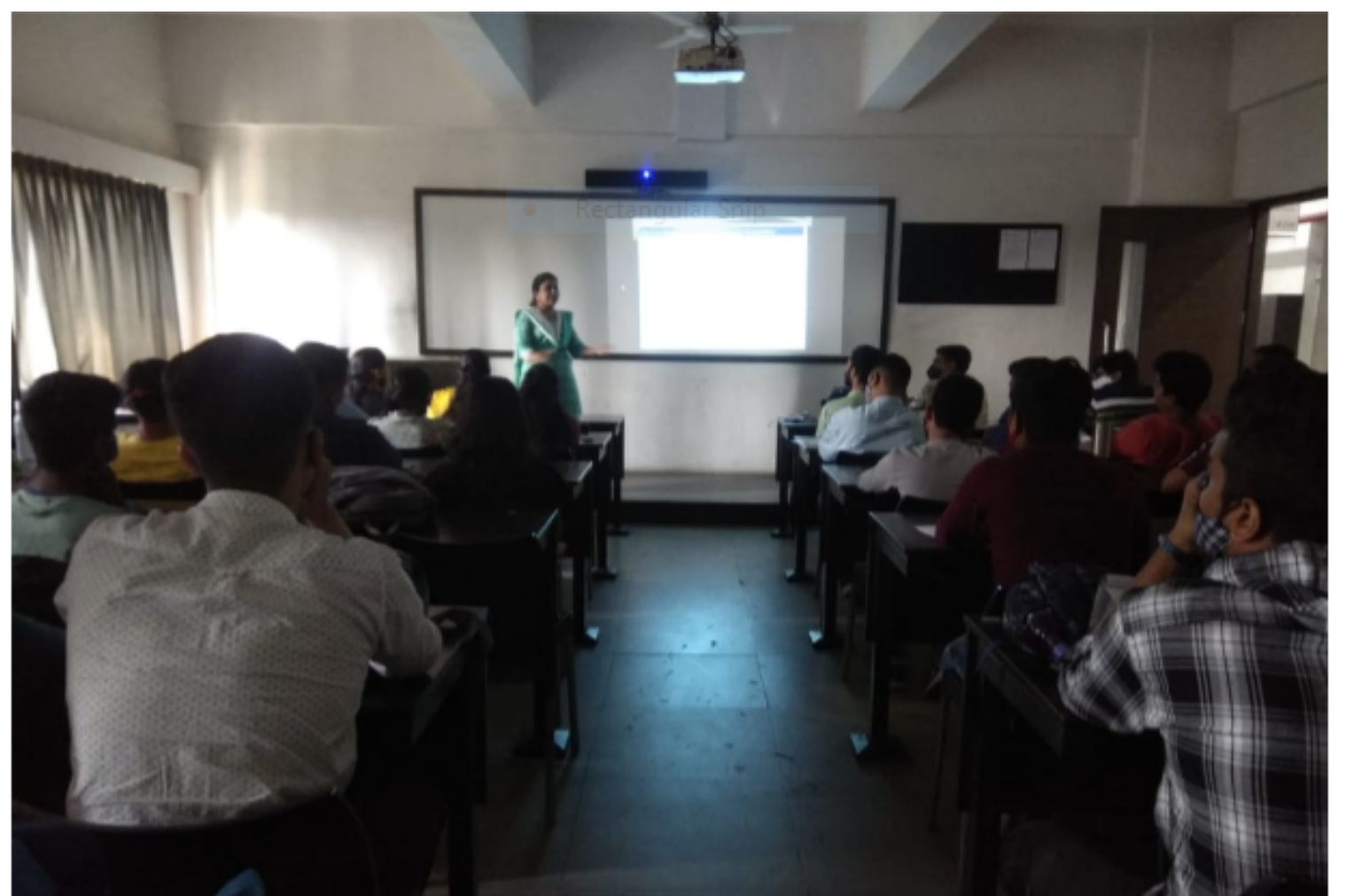(Computer Engineering Student Association)

Our Previous Articles

Harmony in family and in society.

Mrs. Vishakha Shelke and Mrs. Hezal Lopes conducted a session on Human Values & Harmony in Family and Society on Tuesday, 28th December 2021 in Student Induction Program (Phase I) for the first year.

The session started with understanding the concept of the importance of harmony in the family is discussed with the help of videos related to the same concept. Discussed spending quality time with family, giving respect to each other in the family to maintain harmony in the family. To have harmony in society what is expected, how we should respect each other's life goals was discussed with interactive videos. Every human being is born in a family and is part of a family. The family is the basic unit or building block of human organization. Students understand that society is composed of many families living together making a collective effort for a common goal. Every individual in society might have a common goal, differing goals, or conflicting goals. The base for harmony in society is harmony in the family for which the base is harmony in human beings. This point was illustrated by an interactive game by Mrs. Vishakha Shelke conducted one small game, where students were asked to note down their answers for common questions on "Know each other", then answers for those questions were discussed. The aim of this game was to illustrate the concepts that every individual is different but do not consider anyone's excellence as competition, rather have harmony together, work in a group to achieve a goal. Students enjoyed this small interactive game. This session was concluded with the realization of the harmony in the family the relationship between oneself and other self to have a good relationship between oneself and other. Feelings in relationships like trust, respect, affection, care, guidance, gratitude, glory were discussed and related videos were shown to students. Students learned the importance of human values for a successful and peaceful life.

Research topic in Data Mining

Web Mining – Web mining is an application of data mining for discovering data patterns from the web. Web mining is of three categories – content mining, structure mining, and usage mining. Content mining detects patterns from data collected by the search engine. Structure mining examines the data which is related to the structure of the website while usage mining examines data from the user's browser. The data collected through web mining is evaluated and analyzed using techniques like clustering, classification, and association. It is a very good topic for the thesis in data mining.

Predictive Analytics – Predictive Analytics is a set of statistical techniques to analyze the current and historical data to predict future events. The techniques include predictive modeling, machine learning, and data mining. In large organizations, predictive analytics help businesses to identify risks and opportunities in their business. Both structured and unstructured data is analyzed to detect patterns. Predictive Analysis is a lengthy process and consists of seven stages which are project defining, data collection, data analysis, statistics, modeling, deployment, and monitoring. It is an excellent choice for research and thesis.

Oracle Data Mining – Oracle Data Mining, also referred to as ODM, is a component of the Oracle Advanced Analytics Database. It provides powerful data mining algorithms to assist data analysts to get valuable insights from data to predict future standards. It helps in predicting the customer behavior which will ultimately help in targeting the best customer and cross-selling. SQL functions are used in the algorithm to mine data tables and views. It is also a good choice for thesis and research in data mining and database.

Opinion Mining – Opinion mining, also known as sentiment mining, is a natural language processing method to analyze the sentiments of customers about a particular product. It is widely used in areas like surveys, public reviews, social media, healthcare systems, marketing etc. Automated opinion mining employs machine learning algorithms to analyze the sentiments.

Clustering – Clustering is a process in which data objects are divided into meaningful sub-classes known as clusters. Objects with similar characteristics are aggregated together in a cluster. There are distinct models of clustering such as centralized, distributed. In centroid-based clustering, a vector value is assigned to each cluster. There are various applications of clustering in data mining such as market research, image processing, and data analysis. It is also used in credit card fraud detection.

Text mining – Text mining or text data mining is a process to extract high-quality information from the text. It is done through patterns and trends devised using statistical pattern learning. Firstly, the input data is structured. After structuring, patterns are derived from this structured data and finally, the output is evaluated and interpreted. The main applications of text mining include competitive intelligence, E-Discovery, National Security, and social media monitoring. It is a trending topic for the thesis in data mining.

Fraud Detection – The number of frauds in daily life is increasing in sectors like banking, finance, and government. Accurate detection of fraud is a challenge. Data mining techniques help in anticipation and detection of fraud. Data mining tools can be used to spot patterns and detect fraud transactions. Through data mining, factors leading to fraud can be determined.

Data Mining as a Service(DMaaS) – It is a service for mining of data on the cloud. The result can be shared for scientific research. The interactive analysis of data can be done on the cloud. It will leverage the existing interface.

Graph Mining – It is an application of data mining to extract useful patterns from the graphs. The underlying data can be used for classification and clustering. There are certain tools for graph mining like GASTON and gSpan. The application of graph mining includes biological network, web data, cheminformatics and many more. It is one of the good topics in data mining for thesis and research.

Students Corner

LIFE-A BLOSSOM FLOWER

Life is a constant battle,
Between want and need.
Each day is grueling struggle,
Between should and have.
We all crave for the escape,
For that little red door in our life,
But we fail to understand that,
Life isn't like Alice in a wonderland.
Sometimes we have to make the choice,
To go through that little blue door.
Just so that we can realize,
How liberating we can become.
How the difficult choice somehow,
Manages to set us free like never before.

LIFE CYCLE

The chosen people
In our life,
With whom we fumbled;
And went through the tides,
Tumbling down the rides;
We jumped and dived,
Enjoyed and lived;
Our life become simple,
Smile when you have dimple;
With whom we experience,
We manage to keep relationship;
Go through many ups and downs,
Gazing at the stars without frown;
Our life was going the another way,
Wondering while I lay;
Stayed with them with every season,
And end up losing them without a reason;
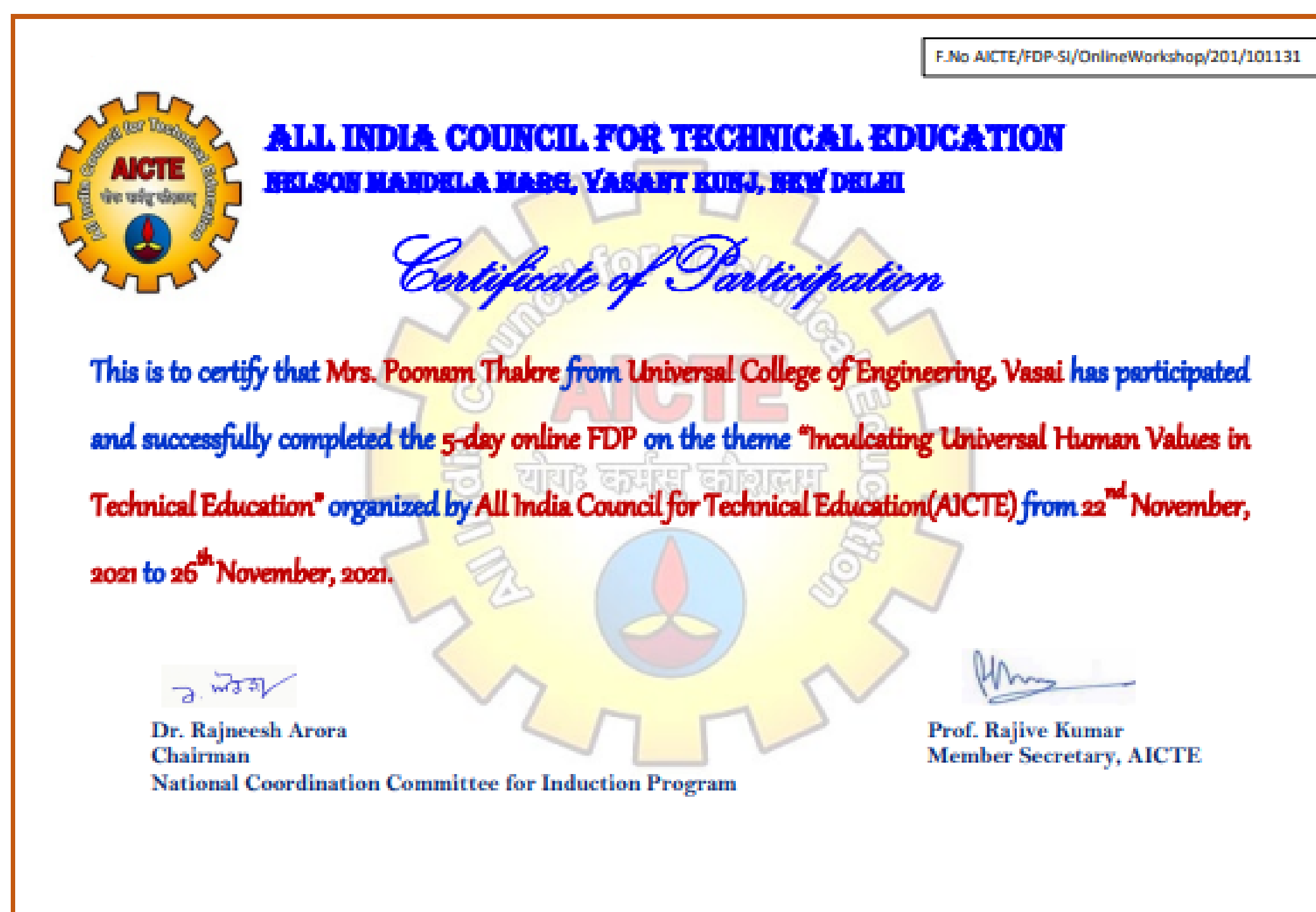
-Ankita Pimple
TE COMPS(B)

May the brave leaders of our glorious nation guide us to peace and prosperity so that we can hold our heads high and be proud of our country. We salute the work they did for this country on this day.

Faculty Achievement

Following Faculties have attended Faculty Orientation Program conducted by Univeristy of Mumbai

Sr No	The Name of faculty	Subject	Date of Orientation
1	Mrs. Poonam Thakre	Cloud Computing	8-Jan-22
2	Mrs. Hezal Lopes	Artificial Intelligence and AI Lab	10-Jan-22
3	Mrs.Vishakha Shelke	Artificial Intelligence and AI Lab	10-Jan-22
4	Dr. Jitendra Saturwar (subject convenor)	Mobile Computing and MC Lab	11-Jan-22
5	Mr. John Kenny	Quantitive Analysis	12-Jan-22
6	Mrs. Hezal Lopes	"Mini Project- 2B Based on Machine Learning (ITM601)"	14-Jan-22
7	Mrs. Vishakha Shelke	"Mini Project- 2B Based on Machine Learning (ITM601)"	14-Jan-22
8	Mr. John Kenny	"Mini Project- 2B Based on Machine Learning (ITM601)"	14-Jan-22
9	Mr. Ashraf Siddiqui	"Mini Project- 2B Based on Machine Learning (ITM601)"	14-Jan-22

Mrs. Poonam Thakre has attended 5 days FDP on ""Inculcating Universal Human Values in Technical Education"
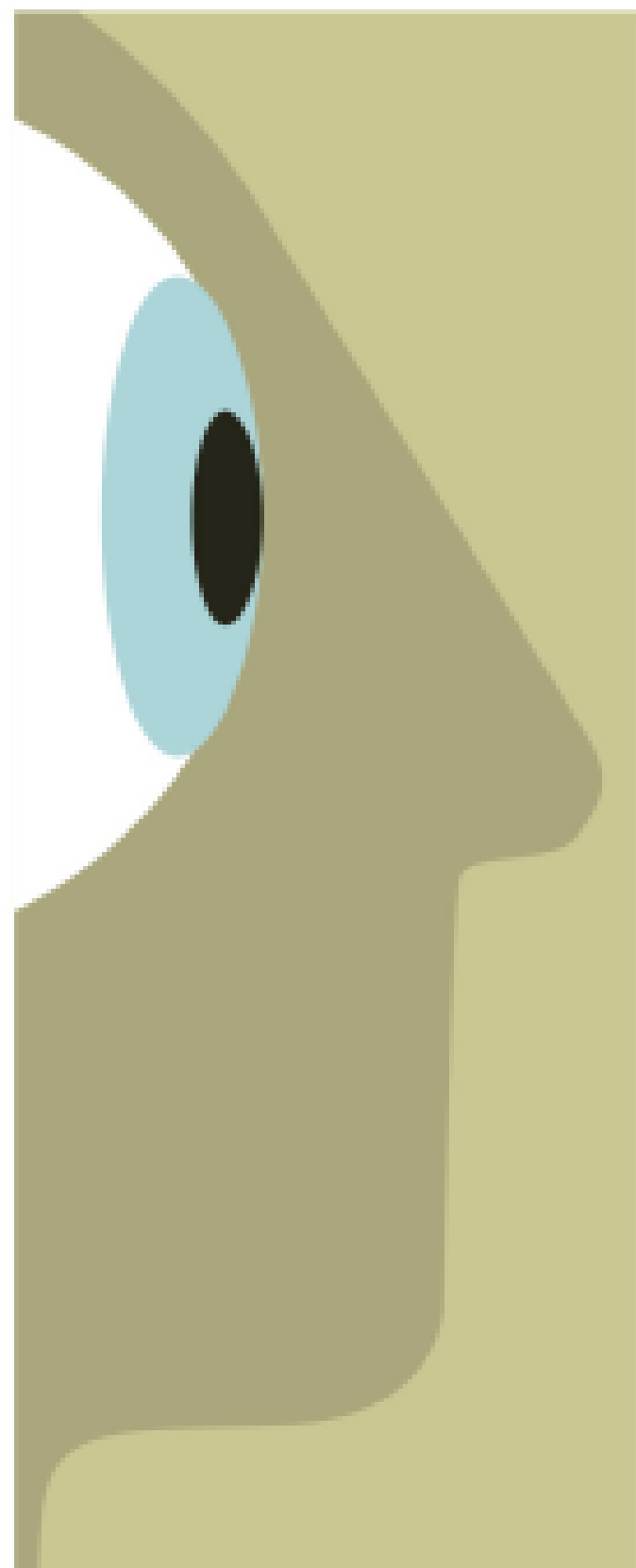
Faculty Achievement

AICTE-ISTE Sponsored
SIX DAYS INDUCTION-REFRESHER PROGRAM ON

CYBER-RISK & SECURITY

Certificate of Participation

AWARDED TO

Mr. Ashraf Siddiqui

for successfully completing the AICTE-ISTE sponsored Six Days Induction-Refresher Program On "CYBER-RISK & SECURITY" organized by the Department of Information Technology, Ramorao Adik Institute of Technology, D.Y. Patil Deemed to be University, Nerul, Navi Mumbai, from 14th to 20th December 2021.

DR. GAUTAM BORKAR
CO-ORDINATOR

DR. ASHISH JADHAV
HOD, INFORMATION TECHNOLOGY
R.A.I.T

DR. MUKESH. D. PATIL
PRINCIPAL
R.A.I.T

RAIT is affiliated to
D. Y. Patil Deemed to be University

Mr. Ashraf Siddiqui has attended 6 days program on "Cyber Risk and Securtiy"

Information Sciences

Certificate of Reviewing

Awarded since January 2022 (1 review)
presented to

MATHE JOHN KENNY KUMAR

in recognition of the review contributed to the journal

The Editors of Information Sciences

Elsevier Reviewer
RECOGNITION

Mr. John Kenny has worked as a Reviewer for esteemed Journal Elsevier

Certificate 1

Researcher Academy On Campus

Certificate of Attendance

This certifies that

hezal Lopes

has attended the following

"How to effectively use ScienceDirect- Read Quality... Publish Quality"

at Ramrao Adik Institute of Technology,
on Thursday 20 January, 2022
Presented by Dr. Vinita Saroha Customer Consultant

Suzanne BeDell
Managing Director, Education
Reference & Continuity Books

Philippe Terheggen
Managing Director, Science,
Technology & Medical Journals

ELSEVIER

Certificate 2

Researcher Academy On Campus

Certificate of Attendance

This certifies that

Vishakha Shelke

has attended the following

"How to effectively use ScienceDirect- Read Quality... Publish Quality"

at Ramrao Adik Institute of Technology,
on Thursday 20 January, 2022
Presented by Dr. Vinita Saroha Customer Consultant

Suzanne BeDell
Managing Director, Education
Reference & Continuity Books

Philippe Terheggen
Managing Director, Science,
Technology & Medical Journals

ELSEVIER

Sindhutai Sapkal

Sindhutai Sapkal, affectionately known as the "Mother of Orphans", is an Indian social worker and social activist known particularly for her work in raising orphaned children in India. She was conferred a Doctorate in Literature by the DY Patil Institute of Technology and Research in 2016.

Sindhutai was born on 14th November 1948 in a cattle-grazing family in Maharashtra's Wardha district. Being an unwanted child, she was referred to as Chindhi (Marathi for "torn piece of cloth"). However, her father was keen on educating Sindhutai, much against the wishes of her mother. Abhimanji (Sindhutai's father) used to send her to school under the pretext of cattle grazing, where she would use the 'leaf of Bharadi Tree' as a slate as she could not afford a real slate due to her family's limited financial resources. Abject poverty, family responsibilities and an early marriage forced her to quit formal education after she successfully passed the 4th standard.

At the age of ten, she was married to a man twenty years her senior in Wardha District.

Post marriage she faced a difficult life but she did not lose hope. In her new home, she fought against the exploitation of local women, who collected cow dung, by the forests department and landlords. This only made things more difficult for her. She bore three sons by the time she turned twenty.

At the young age of twenty, when nine-months pregnant, she was beaten badly and left to die by her husband. She gave birth to a baby girl Mamta in that semi-conscious state and struggled to stay alive on 14 October 1973 in a cow shelter outside their house that night. Sindhutai took to begging on the streets and railway platforms to survive. Because she feared being picked up by men at night she often spent the night at cemeteries. Such was her condition that people called her a ghost since she was seen at night in the cemeteries.

She has devoted her entire life to orphans. As a result, she is fondly called 'Mai'(mother). She has nurtured over 1,050 orphaned children. As of today, she has a grand family of 207 sons-in-law, thirty-six daughters-in-law, and over a thousand grandchildren.

A Marathi-language film Mee Sindhutai Sapkal released in 2010, is a biopic inspired by the true story of Sindhutai Sapkal. The film was selected for its world premiere at the 54th London Film Festival.

Besides the Padma award, Dr Sindhutai Sapkal received more than 750 awards and used the award money to build shelters for orphans.

Scan Me for our previous Editions

You can send your articles to the following email ids:

hezal.lopes@universal.edu.in , jitendra.saturwar@universal.edu.in