

HOPE FOUNDATION'S

FINOLEX ACADEMY OF MANAGEMENT AND TECHNOLOGY

SECOND HALF 2022

e - Newsletter

**DEPARTMENT OF
INFORMATION TECHNOLOGY**

PREPARED BY

ATIYA R KAZI



Finolex Academy of Management & Technology, Ratnagiri
(Recognized by DTE Maharashtra, Approved by AICTE, Affiliated to University of Mumbai)

Established in 1996

www.famt.ac.in admission@famt.ac.in

9371295793 / 8275455415
9960456081 / 9623660688

75+
University
Rank
Holders

**Microsoft
Virtual
Academy**

64
Excellent
Labs

**Ph.D.
Qualified
Faculty from
IITs, NITs,
etc.**

**Apple iOS
Developer
Program**

205+
PLACEMENTS
FOR YEAR
2019-20
ONGOING

**NVIDIA
Developer
Program**

320+
PLACEMENTS
FOR YEAR
2018-19

**intel
Center of
Excellence**

Only Private
Engg. Institute in
konkan region with
**Ph.D.
Research
Center**

**COLLABORATION FOR
ONLINE EDUCATION**




CAMPUS PLACEMENTS IN
TCS, BYJU's, TATA Technologies,
L&T Infotech, Finolex Industries
Wipro, Godrej, Amazon, etc.



A Project by - FINOLEX

ASSOCHAM

Excellence in providing
preferred environment for
Campus Placement Award 2020

AICTE - CII Gold Category

Industry Linked Technical Institute 2018 & 2019

ASSOCHAM

Awarded as **Best Engineering
Institute in Rural India 2019**
by ASSOCHAM

50
RANK

Ranked among top 50 private
Engineering Institute in India for
placements by Times Group

RECENT ADVANCEMENTS IN THE AREAS OF COMPUTERS, SOFTWARE, NETWORKS, INTERNET, COMMUNICATION TECHNOLOGY, BIG DATA, AND CLOUD COMPUTING, ETC. HAVE MADE A HUGE AMOUNT OF INFORMATION AVAILABLE TO US. IN THIS HIGH-TECH ERA, INFORMATION IS SOMETHING WITHOUT WHICH INDUSTRY, INDIVIDUALS CANNOT SURVIVE, AND THEIR SUCCESS DEPENDS ON THE ABILITY TO ACQUIRE ACCURATE AND TIMELY INFORMATION.

KEEPING THIS IN MIND FAMT STARTED THE BACHELOR OF ENGINEERING PROGRAM IN INFORMATION TECHNOLOGY (IT) FROM ACADEMIC SESSION 2001-2002. THE EMPHASIS OF B.E. IN INFORMATION TECHNOLOGY CURRICULUM IS ON COMPUTER SCIENCE, SOFTWARE DEVELOPMENT, NETWORKING, COMMUNICATION, WEB ENGINEERING, SECURITY, MULTIMEDIA PROCESSING, IOT, CLOUD COMPUTING, DATA ANALYTICS, AND SOFT COMPUTING. CURRENTLY, THE DEPARTMENT'S INFRASTRUCTURE CONTAINS THREE CLASSROOMS, SIX LABORATORIES, A STAFF ROOM, AND A SEMINAR HALL. OLE CLASSROOM IS ICT ENABLED WITH A WI-FI PROJECTION FACILITY. ALL FLOORS OF THE IT DEPARTMENT HAVE WI-FI CONNECTIVITY.

DEPARTMENT OF INFORMATION TECHNOLOGY

HOD's Message

Dear All,

It is my immense pleasure to present the e-newsletter of IT Department.

It is our honor to review and present the various activities undertaken by IT Department's faculty and students.

I thank the Graphics Designer for their effort and wish them best of luck for the future endeavors.



Dr. Vinayak Bharadi,
Associate Professor,
HOD IT

DEPARTMENT OF INFORMATION TECHNOLOGY

Editor's Message

Dear Readers,

It has been a great honor to work with IT department. The goal of this e-newsletter is to highlight the department's achievements and acknowledge the efforts of each and every student and faculty member who has had an impact in the department's success. Let us take a trip down the memory lane and we hope you can relive some of these moments with us.

Happy Reading!



Atiya R Kazi,
Asst Professor,
Dept of Info Tech.

VISION AND MISSION

VISION

TO PROVIDE EXCELLENT INFORMATION TECHNOLOGY EDUCATION AND ASPIRE TO NURTURE STUDENTS AS LEADERS WHO ARE IN TUNE WITH GLOBAL IT TRENDS.

MISSION

M1

- **To Enrich students by rigorously implementing quality education (Knowledge)**

M2

- **To empower the students with the required skills to solve the complex problems of modern society by following collaborative, multidisciplinary and sustainable activities (Skills)**

M3

- **To imbibe professional ethics and social values in the students and make them responsible citizens (Attitude)**



Program Educational Objectives

PEO1

TO PROVIDE LEARNERS WITH CORE COMPETENCE IN MATHEMATICAL, SCIENTIFIC AND BASIC ENGINEERING FUNDAMENTALS NECESSARY TO FORMULATE, ANALYZE AND SOLVE HARDWARE/SOFTWARE ENGINEERING PROBLEMS AND/OR ALSO TO PURSUE ADVANCED STUDY OR RESEARCH.

PEO2

TO PREPARE LEARNERS TO SOLVE BUSINESS-CENTERED PROBLEMS BY IDENTIFYING, ANALYZING, DEVELOPING, AND IMPLEMENTING INFORMATION SYSTEM BASED SOLUTIONS WITH MODERN PROGRAMMING TOOLS.

PEO3

TO PREPARE LEARNERS FOR SUCCESSFUL CAREER IN INDIAN AND MULTINATIONAL ORGANIZATIONS, IDENTIFY AND EVALUATE CURRENT AND EMERGING TECHNOLOGIES. TO PROVIDE OUR GRADUATES WITH LEARNING ENVIRONMENT AWARENESS OF THE LIFE-LONG LEARNING .TO MOTIVATE STUDENTS TO PURSUE IT THROUGHOUT THEIR CAREER AND HIGHER STUDIES.

PEO4

TO ENCOURAGE AND MOTIVATE LEARNERS FOR RESEARCH & DEVELOPMENT AND ENTREPRENEURSHIP.

PEO5

TO INTRODUCE LEARNERS TO ETHICAL CODES AND GUIDELINES INCLUDING PROFESSIONAL, ETHICAL, LEGAL AND PUBLIC POLICY ISSUES TO PERFORM EXCELLENCE, SHOW LEADERSHIP SKILLS AND DEMONSTRATE GOOD CITIZENSHIP



PROGRAM OUTCOMES (POs)

PO1

ENGINEERING KNOWLEDGE
APPLY THE KNOWLEDGE OF
MATHEMATICS, SCIENCE
AND IT FUNDAMENTALS TO
THE SOLUTION OF
COMPLEX ENGINEERING
PROBLEMS.

PO2

PROBLEM ANALYSIS IDENTIFY,
FORMULATE, REVIEW RESEARCH
LITERATURE, AND ANALYSE
COMPLEX IT PROBLEMS
REACHING SUBSTANTIATED
CONCLUSIONS USING
PRINCIPLES OF MATHEMATICS,
NATURAL SCIENCES, AND
ENGINEERING.

PO3

DESIGN/DEVELOPMENT
OF SOLUTIONS USE
RESEARCH-BASED
KNOWLEDGE OF IT AND
RESEARCH METHODS
INCLUDING DESIGN OF
EXPERIMENTS, ANALYSIS
AND INTERPRETATION
OF DATA, AND
SYNTHESIS OF THE
INFORMATION TO
PROVIDE VALID
CONCLUSIONS.

PO4

INVESTIGATION OF USER
NEEDS ABILITY TO
INVESTIGATE, IDENTIFY AND
ANALYSE USER NEEDS, AND
TAKE THEM INTO ACCOUNT
IN SELECTION, CREATION,
EVALUATION,
ADMINISTRATION OF IT-
BASED SOLUTIONS INTO THE
USER ENVIRONMENT.

PO5

MODERN TOOL USAGE
CREATE, SELECT, AND
APPLY APPROPRIATE
TECHNIQUES, RESOURCES,
AND MODERN
ENGINEERING AND IT
TOOLS INCLUDING
PREDICTION AND
MODELLING TO COMPLEX
IT ACTIVITIES WITH AN
UNDERSTANDING OF THE
LIMITATIONS.

PO6

THE ENGINEER AND
SOCIETY APPLY
REASONING INFORMED BY
THE CONTEXTUAL
KNOWLEDGE TO ASSESS
SOCIETAL, HEALTH,
SAFETY, LEGAL AND
CULTURAL ISSUES AND THE
CONSEQUENT
RESPONSIBILITIES
RELEVANT TO THE
PROFESSIONAL
ENGINEERING PRACTICE IN
THE FIELD OF IT.

PO7

ENVIRONMENT AND
SUSTAINABILITY
UNDERSTAND THE
IMPACT OF THE
PROFESSIONAL IT
SOLUTIONS IN
SOCIETAL AND
ENVIRONMENTAL
CONTEXTS, AND
DEMONSTRATE THE
KNOWLEDGE OF, AND
NEED FOR
SUSTAINABLE
DEVELOPMENT.

PO8

ETHICS APPLY
ETHICAL PRINCIPLES
AND COMMIT TO
PROFESSIONAL
ETHICS AND
RESPONSIBILITIES
AND NORMS OF THE
IT PRACTICE.
ATTITUDE



PROGRAM OUTCOMES (POs)

PO9

INDIVIDUAL AND TEAM
WORK FUNCTION
EFFECTIVELY AS AN
INDIVIDUAL, AND AS A
MEMBER OR LEADER IN
DIVERSE TEAMS, AND
IN
MULTIDISCIPLINARY
SETTINGS. ATTITUDE

PO10

COMMUNICATION
COMMUNICATE
EFFECTIVELY ON
COMPLEX IT ACTIVITIES
WITH THE ENGINEERING
COMMUNITY AND WITH
SOCIETY AT LARGE,
SUCH AS, BEING ABLE
TO COMPREHEND AND
WRITE EFFECTIVE
REPORTS AND DESIGN
DOCUMENTATION, MAKE
EFFECTIVE
PRESENTATIONS, AND
GIVE AND RECEIVE
CLEAR INSTRUCTIONS.
SKILLS

PO11

PROJECT MANAGEMENT AND
FINANCE DEMONSTRATE
KNOWLEDGE AND
UNDERSTANDING OF THE IT
AND MANAGEMENT
PRINCIPLES AND APPLY
THESE TO ONE'S OWN WORK,
AS A MEMBER AND LEADER
IN A TEAM, TO MANAGE
PROJECTS AND IN
MULTIDISCIPLINARY
ENVIRONMENTS. ATTITUDE

PO12

LIFE-LONG LEARNING
RECOGNISE THE NEED FOR,
AND HAVE THE
PREPARATION AND ABILITY
TO ENGAGE IN
INDEPENDENT AND LIFE-
LONG LEARNING IN THE
BROADEST CONTEXT OF
TECHNOLOGICAL CHANGE.
ATTITUDE

PROGRAM SPECIFIC OUTCOMES (PSO)

PSO1

**REALISTIC FREAMEWORK DESIGNING
DESIGN AN ALGORITHM,
COMPONENT, OR PROCESS TO MEET
DESIRED NEEDS, WITHIN REALISTIC
CONSTRAINTS THROUGH ANALYTICAL,
LOGICAL AND PROBLEM SOLVING
SKILLS. SKILLS**

PSO2

**IT Integration and Adaptability Effectively
integrate IT-based solutions into the user
environment and Adapt themselves easily to
emerging trends in Information Technology.**

EVENTS

IT DEPARTMENT HELD DRAWING EXHIBITION



A Drawing Exhibition on Program Outcomes (PO), Program Specific Outcomes (PSOs), Program Education Objectives (PEOs), and Department and Institute Mission Vision Statements was organized by the Department of Information Technology, Finolex Academy of Management and Technology in association with ACM Student Chapter on October 15th, 2022 at 02:30 pm.

AN INDUSTRY EXPERT SESSION BY BENCHMARK IT SOLUTIONS, PUNE

An Industry Expert Session was arranged by the Department of Information technology for BEIT students on 13th September 2022. Mr Sachin Surve (Delivery Manager, Benchmark IT Solutions, Pune) and Mr Mangesh Wagh (Director, Benchmark IT Solutions, Pune) were the resource persons. This session was arranged for Final Year students of the IT Department.

A total of 63 Students participated in this session.

EVENTS

A WEBINAR ON DETECTING CYBER THREATS WITH UNSUPERVISED LEARNING

A Webinar on Detecting Cyber Threats with Unsupervised Learning was organized by the Department of Information Technology on 11th August 2022.

The sessions gave a comprehensive overview of detecting Cyber Threats with Unsupervised Learning.

This webinar was organized under the “NVIDIA Developer Center” of the Department of Information Technology. This webinar will enable students to apply their knowledge of AIDS I, II and Cyber Security and Laws for the real-life research case study.

ISTE APPROVED TWO WEEK STTP ON ADVANCEMENTS IN CRYPTOGRAPHY, BLOCKCHAIN AND CRYPTOCURRENCY

The department of Information technology, FAMT conducted ISTE approved Two-week STTP on Advancements in Cryptography, Blockchain and Cryptocurrency from 05/12/2022 to 16/12/2022. This STTP provided a forum for discussions on theoretical and practical aspects of advancements in Cryptography, Cryptocurrency and Blockchain, exchanging research ideas and challenges, and exploring possible solutions and future directions.

A total of 25 faculty members from the Information Technology, Computer Science and Engineering, Electronics and Telecommunication, Mechanical, Science and Humanity and MCA Departments participated in this STTP. Hands-on sessions on Blockchain were conducted by the experts during STTP.



SEMINARS



A Seminar on 'Microsoft Azure Virtual Training Day: DevOps with GitHub' was organized by the Information Technology department in association with Microsoft virtual academy on 06 and 07 October 2022. Azure Technical Trainer-Microsoft, delivered a session for T.E IT students through a web-based platform.

The students learnt the importance of DevOps with GitHub using the Microsoft Azure platform. This seminar was registered and attended by 71 IT students. The students learnt about Integrating security and quality controls into automation, continuous integration and continuous delivery (CI/CD) pipelines.

A Seminar on 'Microsoft Azure Virtual Training Day: Fundamentals' was organized by the Information Technology department in association with Microsoft on 03 and 04 October 2022. Azure Technical Trainer-Microsoft, delivered a session for S.E IT students through a web-based platform. The students were made aware of the importance of data and its processing tools with help of the Microsoft Azure platform. This seminar was registered and attended by 18 SE IT students.

A seminar on "Advances in Accelerated Data Science" was organized by the Information Technology department for TEIT students on 22nd September 2022. This program covered the following key aspects of Data Science:

Workload Optimization Tool

Accelerated Dask Overview

Accelerated Arrays with CuPy

Recent advancements in Machine Learning and Graph Analytics

A Seminar by an Industry Expert on Cyber Security was organized by the Information Technology department on 29-09-2022. Mr Viren Chaudhari, Senior Engineer in Threat Research from Qualys Software delivered the seminar for BE IT students at IT seminar Hall.

This seminar was attended by 65 students.

A Seminar by an Industry Expert on SAP Programming and its Industry Applications was organized by the Information Technology department on 30-09-2022. Mr Sitesh Sawant (FAMT Alumni), currently working as SAP ABAP Developer & Graphics Web Designer at Gadre Infotech Pvt. Ltd. delivered the seminar at IT seminar Hall.

This seminar was attended by 29 TE IT students

A Seminar on How to be a Deep Learning Engineer was organized by the Information Technology department for SEIT students on 23rd September 2022.

The seminar covered an important discussion on how to get expertise as a deep learning engineer. The speakers shared valuable knowledge regarding the prerequisites of deep learning and how to acquire them. A discussion also involved key insights into what is deep learning and what are the key application areas of deep learning, future trends and research opportunities in deep learning, platforms to learn deep learning concepts and techniques etc.

ALUMNI INTERACTION

ALUMNI INTERACTION ON DIGITAL MARKETING

The Department of Information Technology organized an Alumni Interaction on Digital Marketing for TE IT students on 20th September 2022.

Mr Abhishek Kamble, SEO Manager from Mumbai, was the resource person.

The expert talked about the performance analysis capabilities across multiple marketing channels, and how it connects a business with its customers when they are online, and is effective in all industries.

He explained Affordability, Mobile Access, Flexibility, Expansion, Multimedia, Interactivity, Tracking, and Authority used to brands improve their customer relationships.

The event was initiated by HOD IT, Dr Vinayak A. Bharadi. The interaction was successfully coordinated by Prof. S. Sankareswari. This session was attended by 33 students of T.E. IT classes.

The sessions gave a comprehensive overview of detecting Cyber Threats with Unsupervised Learning. This webinar was organized under the "NVIDIA Developer Center" of the Department of Information Technology.

This webinar will enable students to apply their knowledge of AIDS I, II and Cyber Security and Laws for the real-life research case study.

Publication
Date :
30/09/2022

FACULTY ACHIEVEMENT

**DR. YOGESH M. GAJMAL PUBLISHED
A PATENT ENTITLED "AI-BASED
PLOUGHING MACHINE"**

**DR. YOGESH M. GAJMAL,
ASSOCIATE PROFESSOR IT
DEPARTMENT PUBLISHED A
PATENT ENTITLED "AI-BASED
PLOUGHING MACHINE".
PATENT DETAILS AS FOLLOWS:**



**TITLE OF THE INVENTION :
AI-BASED PLOUGHING MACHINE**



STATUS: PUBLISHED

JOURNAL NUMBER: 39/2022

**APPLICATION NO.:
202221052923**

**DATE OF FILING OF
APPLICATION :16/09/2022**



INFORMATION
TECHNOLOGY
DEPARTMENT HAS
BECOME A MEMBER
INSTITUTION OF
AMAZON WEB
ACADEMY TO
PROMOTE FACULTY
AND STUDENT AWS
TRAINING SKILLS
THROUGH AWS
EDUCATE PROGRAM



Amazon AWS Educate



aws academy
Member Institution

Click to add text

AWS Educate
Grant for Last
Three Years

- Students Use this Grant for Course work and Mini Projects

3 Faculty
Completed
Course Training

15 Students
Completed
Course Training

aws
educate

Cloud
Ambassador



Achievements : Research Grants Received



Dr. Vinayak Ashok Bharadi received following Grants

Amazon	Amazon
\$3850	\$3450
March 2020	Jan 2021
AWS Access	AWS Access
Big Data Analytics and IoE	Internet of Everything Mini Projects
Amazon AWS Educators Grant	Amazon AWS Educators Grant
For the course of IoE and BDA	For the course of IoE



AWS BIG DATA SOLUTION



AWS DynamoDB



AWSS3



AWSSQS

Achievements : Research Grants Received



Dr. Vinayak Ashok Bharadi received following Grants

NVIDIA	Microsoft Azure	Amazon	Amazon	Amazon
\$1600	\$5000	\$17	\$3850	\$3600
Feb 2017	March 2017	Aug 2018	March 2019	Jan 2019
INR 1.07Lacs	INR 3L worth Azure Cloud Access	AWS Access	AWS Access	AWS Access
NVIDIA Titan X Pascal GPU	Cloud Computing	Cloud Computing	Cloud Computing	Cloud Computing
NVIDIA Developer Program	Microsoft Azure Educator Grant	Amazon AWS Educators Grant	Amazon AWS Educators Grant	Amazon AWS Educators Grant
Improving performance of Weber Local Descriptor based feature Vector Extraction of Multimodal Biometric System consisting of Iris and Online Handwritten Signature.	Biometric based SaaS Cloud architecture for online signature recognition on Windows Tablet PC using REST API	For the course of Cloud Computing	For the course of Big Data Analytics	For the course of IoE and BDA

IT faculty members Dr. Vinayak Bharadi and Prof. Amar Palwankar acquired the prestigious NVIDIA Jetson Grant



NVIDIA. NVIDIA Jetson Grant

Dr. V A Bharadi and Prof. A R Palwankar



NVIDIA
Developer
Program

- NVIDIA CUDA Development

2 Faculty
Members
Received the
Hardware

6 NVIDIA
Jetson Nano
2GB
Development
Kits

JETSON NANO 2GB
DEVELOPER KIT



50





PLACEMENT BUZZ

Placement Analysis

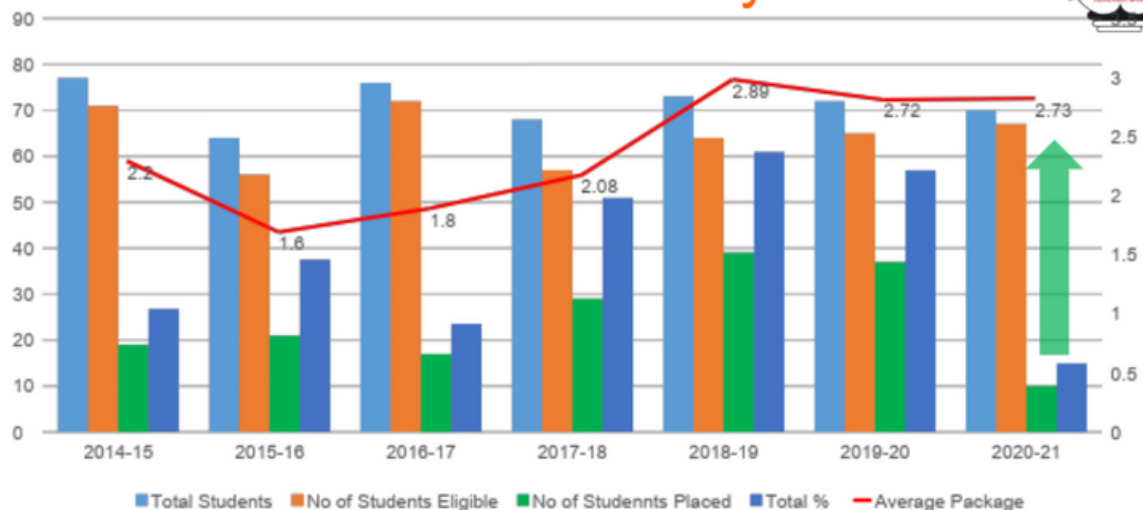
Improvement in Placement Quality



AY 2017-18			AY 2018-19			AY 2019-20			AY 2020-21		
Sr.	Company	Package	Sr.	Company	Package	Sr.	Company	Package	Sr.	Company	Package
1	Syntel	3.2	1	BYJUS	7	1	TCS	3.6	1	Infocenter	3.7
2	Quinnox	3.2	2	Demand Farm	5	2	Infosys	3.6	2	TCS	3.6
3	Mphasis	2.4	3	RSL	4	3	Coditas	3.6	3	Softlink	2.8
4	Make My Holidays	2.4	4	TCS	3.6	4	Eternus Solutions	3.6	4	WebTeck Soln.	2.3
5	Mind Tree Consultancy.	2.4	5	L&T Infotech	3.2	5	Acty System	2.4	5	Quinnox	2.2
6	Seed Infotech Mumbai	2.2	6	WIPRO	3	6	Clover Infotech	2.2	6	Global Spaces	2.2
7	Vyom Labs	2.2	7	Jocata	3	7	Network Labs	2.2	7	Infomatics	1.8
8	CMS IT Services	2.2	8	Epic Research	2.6	8	Webtech	2.2	Average		2.65
9	Globenet Solutions	2.2	9	NUCSOFT	2.4	9	Greyatom (HTD)	2.2			
10	RAA Technocrats Mumbai	2.2	10	BridgeLabz	2.2	10	Aegis Health Solution	1.9			
11	Qspiders	2.2	11	Qspider	2.2	11	Infocenter	1.9			
12	Bhilwara Info. Tech. Ltd	2.2	12	Pleximus	2	Average		2.67			
13	Amazon	2.2	13	RK Infosystem	1.9						
Average		2.4	14	Ripple Advisory	1.8						
			Average		2.43						

42

Placement Analysis



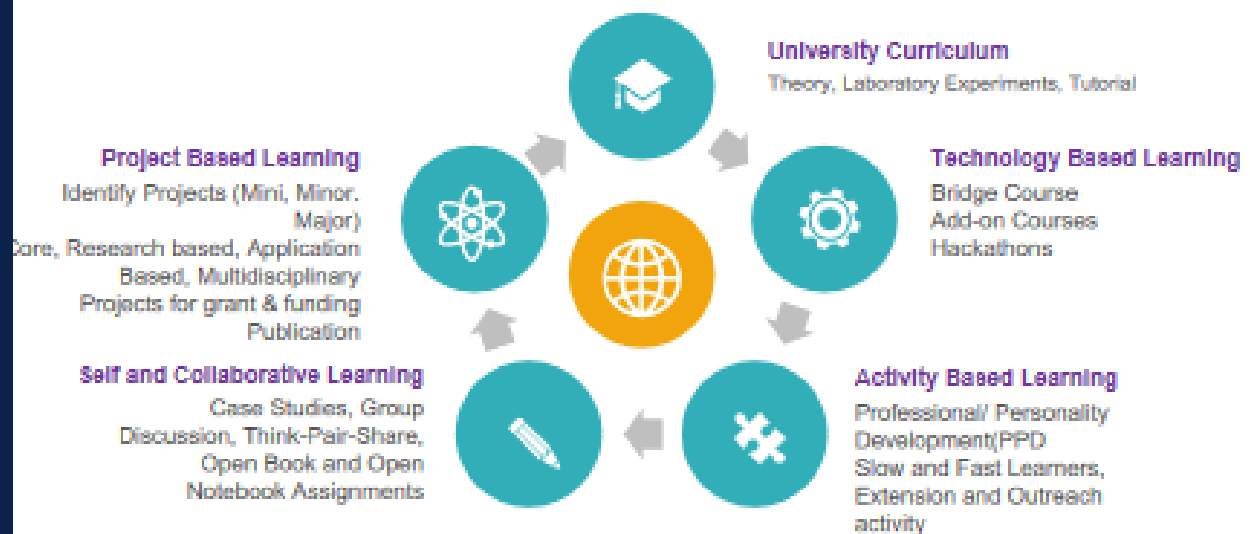
*Package Details are Approx. for AY: 12-13, 13-14, 14-15

**Placement for AY 2020-21 is in Progress

41

Teaching Learning process

Major Aspects of TLP at IT Department



1

Innovative Teaching Learning Practices



- Cloud Based Moodle (Edmodo)
- Crosswords for Teaching Learning Process
- Group based Assignments, Open book, open notebook and Online Quiz Assignments
- Certification Training – Microsoft Virtual Academy
- Outcome Based Education
- Project Based Learning
- Lab Assessment by Online Quiz-Testyou, Drupal, Google Classrooms etc.
- Hackathon – Java, Python
- Using Amazon Web Services Educate Classroom, IBM Academic Alliance

aws educate



mva
Microsoft Virtual Academy



Apple iOS Developer Program

Crossword Labs

OBE OUTCOME-BASED EDUCATION



IBM Academic Initiative



Intel Intelligent Systems



1

OUR GRAND UNIVERSITY TOPPERS



Rank Holder at University Level

Insert the title of your subtitle Here


Ms. Arusa Mukadam AY 2017-2018, Secured
9th Rank in University of Mumbai

Ms. Arusa Mukadam, 9th Rank in
Mumbai University, AY 2017-2018,
CGPA 9.52

CGPA
9.52



1

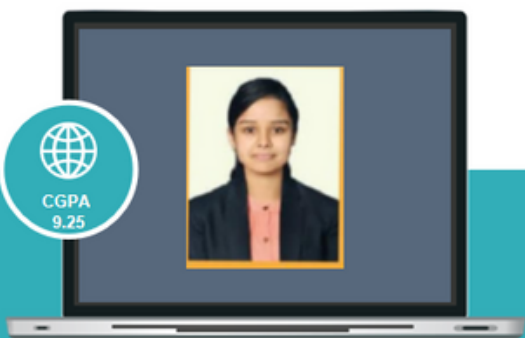


Rank Holder at University Level

Insert the title of your subtitle Here

Ms. Rameeza Lambey AY 2018-
2019, Secured 3rd Rank in
University of Mumbai

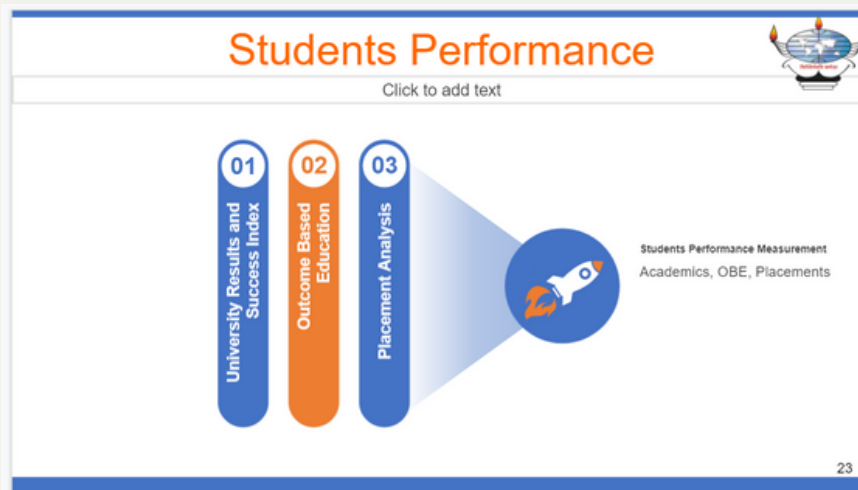
CGPA
9.25



Student Development Activities



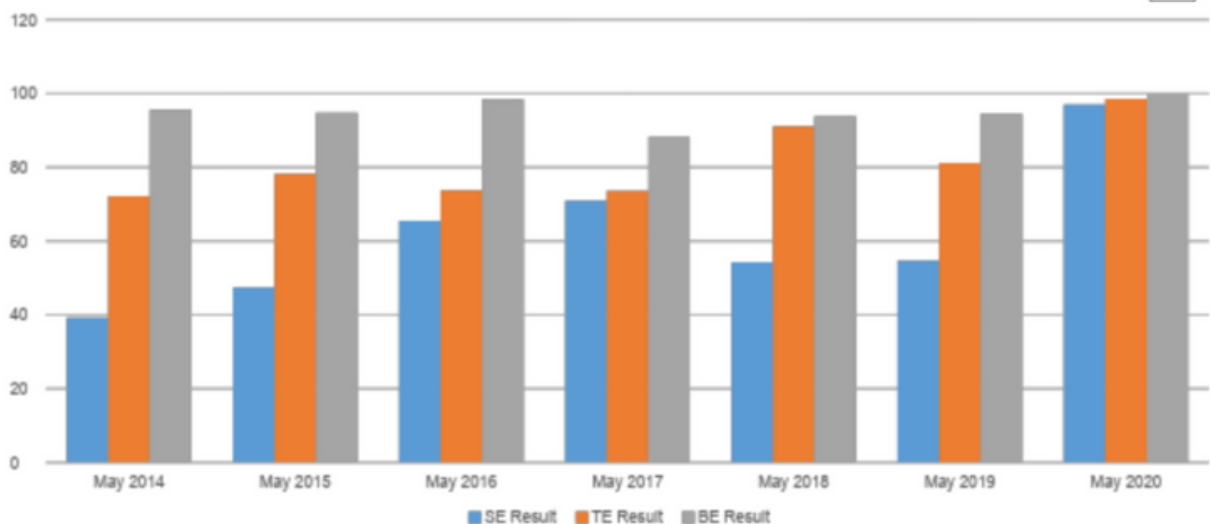
RESULTS FOR FIRST HALF 2021



Our results highlight how we

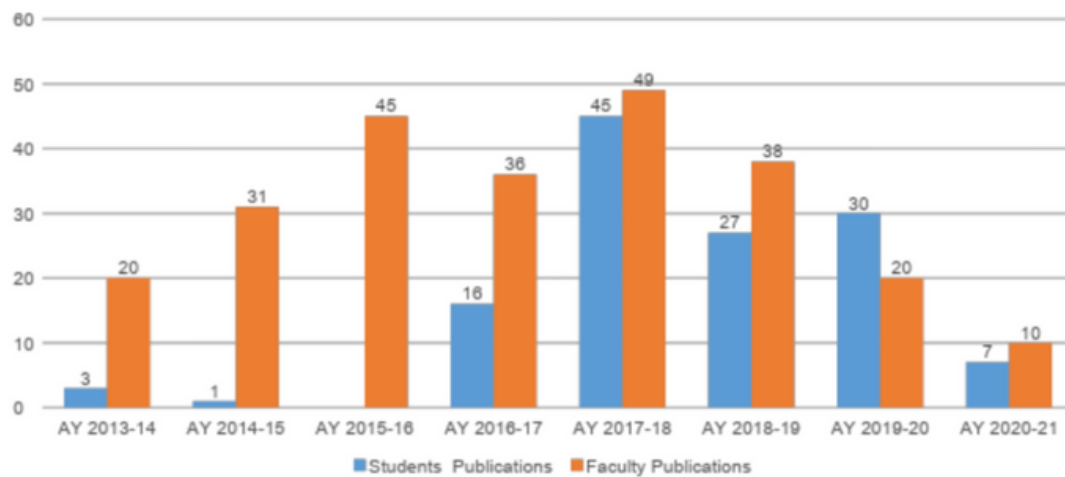
- Celebrate achievements
- Give motivation
- Highlight accomplishments
- Provide support
- provide Interview and placement training

IT Department Results



Publications by Student and Faculty

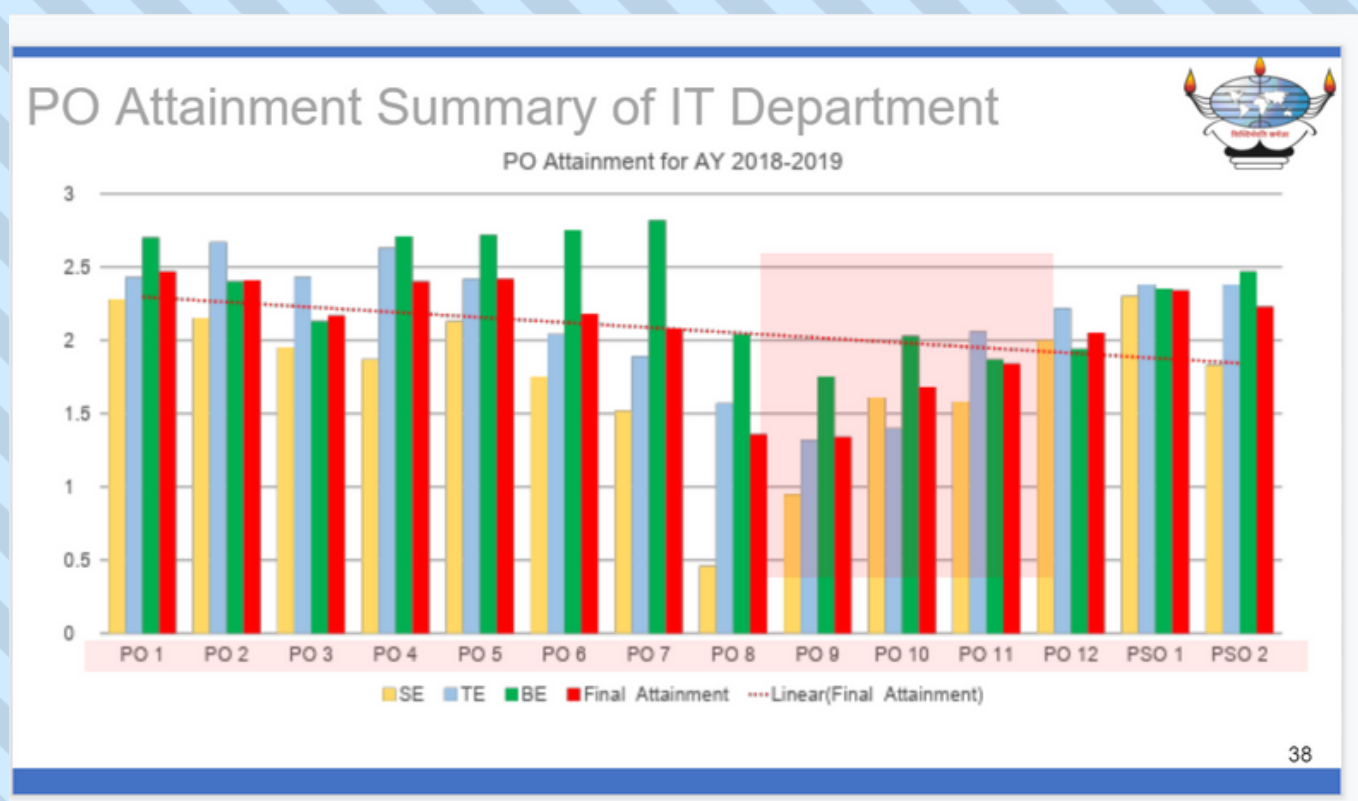
IPR Generation

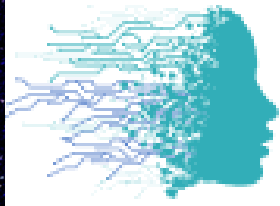


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PO ATTAINMENT SUMMARY





Projections - Future Plans



Accreditation by NBA (2021-2022)
Strengthening the department infra and overall performance improvement

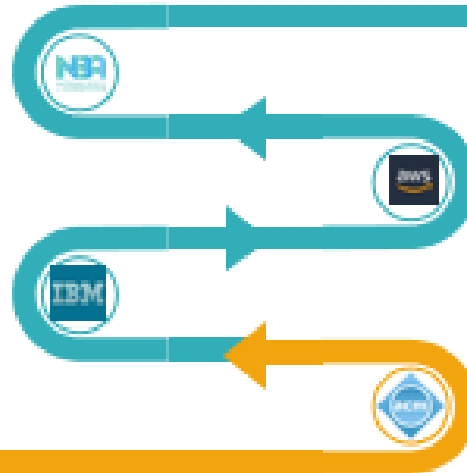
Application for Grants (2020-2023)
Funding by various government and private agencies for Research and Infrastructure Upgradation



Academic Excellence
In alignment with MVS

AW& Educate Academy (2020-2021)
Complete the Faculty members Certifications in ACP and Start the batches

IBM Academic Alliance (2020-2021)
Activities under the MoU



ACM Collaboration (2018-2020)
Professional Chapter collaboration with ACM

*Thank
you!*