



Shri Vile Parle Kelavani Mandal's

DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING

(Autonomous College Affiliated to the University of Mumbai)

NAAC Accredited with "A" Grade (CGPA : 3.18)



Academic Year: 2022 - 23

Department of Computer Engineering

ACADEMIC REPORT

July 2022 – Dec 2022

1. About Department
2. Administration
3. Special Academic Programs
4. Faculty Contribution
 - 4.1 Faculty Publications: National / International Conference / Journal
 - 4.2 Interaction of Faculty with Outside World
 - 4.3 Seminars/Workshops/Conferences/FDP/STTP/Expert talk organized
 - 4.4 Seminars/Workshops/Conferences/FDP/STTP/Expert talk attended
5. Students' Achievement
6. Placement Data



Academic Year: 2022 - 23

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1. DEPARTMENT

Department VISION

To impart high quality education, promote research culture and inculcate ethical values to develop/produce professionally competent engineers capable of meeting global challenges.

Department MISSION

1. Encourage research aptitude and analytical approach to prepare students for facing technological challenges in computing field.
2. Develop professionals, equipped with soft skills, ethical and social values for betterment of society.
3. Create awareness about sustainability concerns and ongoing trends in computing field.
4. To nurture and provide a collaborative environment for enabling aspiring technocrats to meet industry expectations.
5. Provide competent faculty and systematic modern approach in teaching-learning with state-of-art infrastructure.

Program Educational Objectives [PEO]

1. To impart quality education to students, while encouraging innovations and research culture in keeping abreast with technological advancements in computing.
2. To develop computer professionals with comprehensive knowledge, capable of facing indigenous and global challenges.
3. Develop computer professionals to fulfill industry expectations and social aspirations.



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Programs Specific Outcomes [PSO]

By the completion of Computer Science program, the student will have following Program specific outcomes.

1. Ability to understand and assess fundamental and advanced principles of computer hardware and software systems.
2. Comprehensive knowledge and practical competence with a broad range of programming languages enabling graduates to understand the structure, design and development methodologies of software systems on various platforms.
3. Ability to efficiently model real-world problems using appropriate data structures and algorithms.
4. Capability of applying computing knowledge in multidisciplinary domains to identify problems and provide solution to them.

About the Department

- Started in the year 2001 with undergraduate program affiliated with University of Mumbai.
- NBA Accredited
- Intake: BE: 120, ME: 18, PhD: 10
- Fully air-conditioned classrooms with LCD Projectors
- Laboratories equipped with advance software and hardware
- Provide all kinds of support to develop application with advanced technologies.

Courses offered

- B.E Computer Engineering
- M.E Computer Engineering
- Ph.D Technology



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2. ADMINISTRATION

ACM Committee

Dr. Narendra Shekokar Dr. Aruna Gawade Prof. Pankaj Sonawane

DJ Unicode Committee

Dr. Meera Narvekar Prof. Pranit Bari

Synapse Committee

Dr. Pratik Kanani Prof. Aniket Kore

Project Committee

Dr. Chetashri Bhadane Prof. Ruhina Karani

Academic Report

Dr. Chetashri Bhadane Prof. Aniket Kore

Departmental Library Committee

Prof. Pankaj Sonawane

Maintenance Audit Committee

Prof. Pankaj Sonawane



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Program Assessment Committee

Dr. Meera Narvekar

Dr. Narendra Shekokar

Dr. Ram Mangrulkar

Dr. Aruna Gawade

Dr. Kiran Bhowmick

Prof. Khushali Deulkar

Dr. Chetashri Bhadane

Prof. Ruhina Karani

Prof. Pranit Bari

Time-Table Committee

Prof. Lynette Dmello

Prof. Pranit Bari

Cultural Committee

Dr. Meera Narvekar

Prof. Sudhir Bagul

Prof. Sridhar Iyer

Placement Committee

Prof. Ruhina Karani

Prof. Pranit Bari

SAP Attendance

Prof. Khushali Deulkar

Prof. Lynette D'mello

Internship Committee

Prof. Sridhar Iyer



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Sports Committee

Dr. Narendra Shekokar
Prof. Pankaj Sonawane

Stationary Incharge

Prof. Ashok Patade

Entrepreneurship Incharge

Dr. Ram Mangrulkar

Alumni coordinator

Prof. Khushali Deulkar
Prof. Ruhina Karani

Mentor Incharge

Prof. Sindhu Nair

Exam Coordinator

Dr. Chetashri Bhadane
Prof. Ruhina Karani

Lab Incharges

Dr. Kiran Bhowmick
Prof. Pankaj Sonawane
Dr. Chetashri Bhadane
Prof. Sindhu Nair
Prof. Ashok Patade
Dr. Pratik Kanani

Class Incharges

Prof. Sridhar Iyer
Prof. Pankaj Sonawane
Prof. Sindhu Nair
Prof. Khushali Deulkar
Prof. Deepika Dongre
Prof. Aniket Kore
Prof. Ruhina Karani



3. SPECIAL ACADEMIC PROGRAMME

3.1 Webinar on “Educator Awareness session on Digital Age Innovation” organised on 12th August 2022

The webinar on **Educator Awareness session on Digital Age Innovation** was conducted on 12th August 2021. The webinar will focus on today's rising demand of Design Thinking and Digital Age Innovation that will help faculty make students ready for the Future. The intention of the webinar is to facilitate the faculty/educators to appreciate and understand innovation mind-set and creative problem solving.

Need of Webinar:

- Help students approach 21st century challenges leveraging a combination of CRITICAL, ANALYTICAL AND INTUITIVE APPROACH
- Guide students in today's VUCA environment by learning how to -TO-DEFINE, AMBIGUOUS &
- Learn how to develop EMOTIONAL & SOCIAL INTELLIGENCE amongst students
- Learn how to help students being FUTURE READY

Speaker: Mr. Pinaki Bhowmick

The speaker for the webinar is Mr. Pinaki Bhowmick, Founder, Dx & Beyond and an enthusiast design thinking practitioner and digital innovation-transformation expert with an overall experience of 22 years in the industry.

Participants: Faculty Members of any department Irrespective of your seniority, branch or specialization.

Total No. of Participants: 24

Outcome of Webinar: Faculty members will be able to

- Help students understand the context of Digital-age Innovation and the value of focusing on end users' unmet needs
- Help students to realise the need to combine Analytical and Intuitive thinking and Structured Innovation
- Help students understand how they could remain competitive and valuable in the new normal with a high degree of technology obsolescence.



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A Webinar on "Educator Awareness on Design Thinking and Digital Age Innovation"

02:10:48

You're recording You are recording this meeting. Be sure to let everyone know that they are being recorded. [Privacy policy](#)

Meeting chat

This meeting chat is muted. [Settings](#)

Arana Gawade 12:52 travel

Arana Gawade 12:58 nice

12:45 one year

Menta Gandhi 12:58 I have a class at 1pm, so please excuse me. Thank you for a fantastic insight!

Truptee Malankar 13:29 left brain

Prasad Joshi 13:36 need

Chetanhi Bhadane 13:36 need

13:36 need

Mayur Parulkar 13:36 Need

Type a new message

the method

STANFORD D.SCHOOL

EMPATHIZE

DEFINE

IDEATE

PROTOTYPE

TEST

INSPIRATION

IDEATION

IDEO

1 DISCOVERY

2 INTERPRETATION

3 DESIGN

4 EXPERIMENTATION

5 EVOLUTION

Observe

Reflect

Make

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Pratik Bhosale

BS

MM

Arana Gawade

Yashvi D'Mello

Menta Gandhi

KB

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A Webinar on "Educa...

Webinar on Educator ...

Webinar

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Parking Lot

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ENG 13:53



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Department of Computer Engineering

A Webinar on "Educator Awareness on Design Thinking and Digital Age Innovation"

01:18:53

You're recording You are recording this meeting. Be sure to let everyone know that they are being recorded. [Privacy policy](#)

Participants

Invite someone or dial a number

Share invite

In this meeting (32)

Mute all

Kiran Bhosmick Organizer

Amit Chaudhari

Anura Gawade

Ashok Patade

Atul Dhale (Dr)

BS Bahar Soparkar

Chetashvi Bhadane

Danshana Santhe

Deepika Dongre

Kriti Srivastava

Lakshmi Kunup

Lynette D'Mello

Mayur Parulekar On hold

Meenakshi Rananavare

Meera Navkar

dx & beyond

reliability

ever since we started learning

life learning

elders

productivity

around 1650

content learning

experts, teachers

quality

around 1950

experiential learning

personalities

creativity

a) discovery learning

b) free agency, creativity

c) social entrepreneur, influencers

d) free agency, information

e) agility, creativity

innovators, entrepreneurs

agility

today

social entrepreneurs, influencers

free agency

discovery learning

discovery learning

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Peakli Bhosmick

+22

BS

Kriti Srivastava

Chetashvi Bhadane

Mithu Mondal

Prasad Joshi

Prasad Bhosmick

KB

Calendar | Microsoft ...

A Webinar on "Educa...

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Webinar

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Parking Lot

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ENG 13:02

A Webinar on "Educator Awareness on Design Thinking and Digital Age Innovation"

49:51

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Participants

Invite someone or dial a number

Share invite

In this meeting (31)

Mute all

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Chetashvi Bhadane

Danshana Santhe

Deepika Dongre

Kriti Srivastava

Lakshmi Kunup

Lynette D'Mello

Mayur Parulekar

Meenakshi Rananavare

Meeta Gandhi

Mithu Mondal Outside your organization

Go to www.menti.com and use the code 4342 2949

If you win INR 1 CR lottery - what would you do?

Travel

Retire and move to Goa/Kerala/Sikkim

travel

Do a world tour

I would travel

Donate - for cause (including research)

Will buy holiday home

Donate

Enjoy

Travel the world

vacation

1. Travel and enjoy food around 2. Help some needy kids specially 3. Save for medical expenses

Press 5 to show image

Peakli Bhosmick

+21

BS

Kriti Srivastava

Mithu Mondal

Prasad Joshi

Meeta Gandhi

Peakli Bhosmick

KB

Calendar | Microsoft ...

A Webinar on "Educa...

Voting - Google Chro...

Webinar

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Parking Lot

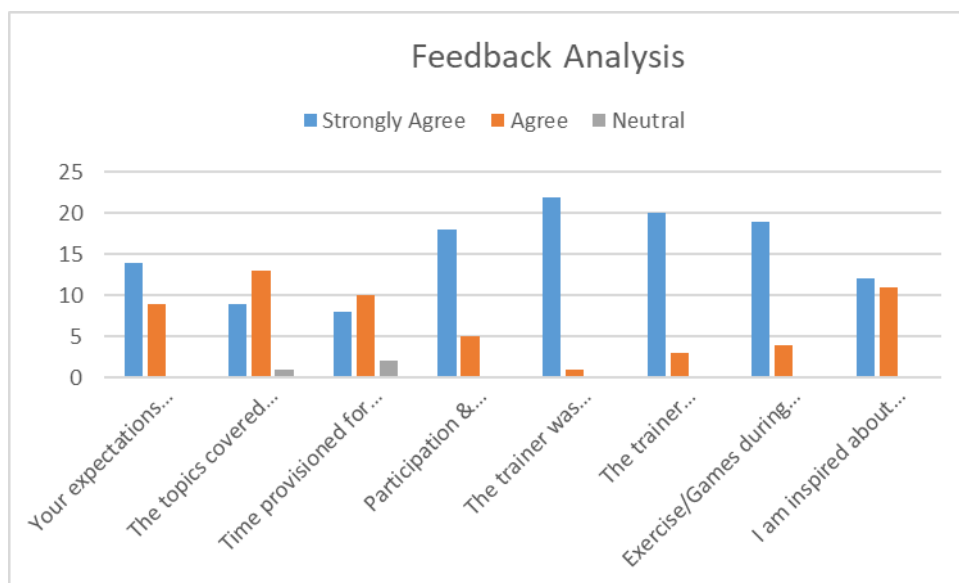
28...

ENG 12:33



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Feedback:





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4. FACULTY CONTRIBUTION

4.1 Faculty Publications: National / International Conference / Journal

Sr. No.	Name	Journal/Conference	National / International	Title	Publication	Date
1.	Dr. Meera Narvekar	Journal	International	A cluster and label approach for classifying imbalanced data streams in the presence of scarcely labeled data	International Journal of Business Intelligence and Data Mining (IJIBDM)	Nov-22
2.	Dr. Narendra Shekokar	Journal	International	TextBrew: Automated Model Selection and Hyperparameter Optimization for Text Classification	International Journal of Advanced Computer Science and Applications	Oct-22
		Conference	International	Automatic Generation of Cricket Highlights Framework Comprising Score Extraction and Action Recognition	IEEE 3rd GCAT 2022	Oct-22
3.	Dr. Ramchandra Mangrulkar	Journal	International	DieRoll: A Unique Key Generation and Encryption Technique	Journal of Applied Security Research	Oct-22
		Journal	International	Modified Symmetric Image Encryption Approach Based on Mixed Column and Substitution Box	Journal of Applied Security Research	Nov-22
4.	Dr. Aruna Gawde	Journal	International	Ethereum-based Quadratic Funding Of Public Commodities	International journal of information security science	Sept-22



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5.	Dr. Kiran Bhowmick	Journal	International	A cluster and label approach for classifying imbalanced data streams in the presence of scarcely labeled data	International Journal of Business Intelligence and Data Mining (IJIBDM)	Nov-22
6.	Dr. Nilesh Patil	Patent	International	Machine learning architecture for news reporting texts in social networks for detection of fake news		Nov-22
		Book	National	Machine Learning	Tech Neo Publications	July- 22
		Book	National	Infrastructure Security	Tech Neo Publications	July- 22
		Book	National	Deep Learning	Tech Neo Publications	Aug- 22
		Book	National	Data Mining	Tech Neo Publications	Aug- 22
		Journal	International	E-learning analysis using machine learning algorithm	Neuro Quantology	July- 22
		Conference	International	Interactive Gaming Experience in VR Integrated with Machine Learning	International Conference on Advances and Applications of Artificial Intelligence and Machine Learning	Sept- 22
7.	Dr. Chetashri Bhadane	Conference	International	Neural Machine Translation from English to Marathi Using Various Techniques	INDO-Hungary, International Conference on Recent Innovations in Computing (ICRIC-2022)	Aug-22
8.	Dr. Pratik Kanani	Journal	International	Text to Song Synchronization Using Deep Neural Network	BOHR International Journal of Computer Science	Aug-22



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9.	Prof. Ruhina Karani	Conference	International	Music recommendation based on affective image content analysis	International conference on Machine Learning and Data Engineering (ICMLDE 2022), Elsevier	Sept- 22
		Journal	International	Review on Multimodal Fusion Techniques for Human Emotion Recognition	International Journal of Advanced Computer Science and Applications(IJACSA)	Nov-22
10.	Prof. Pankaj Sonawane	Chapter	International	Performance analysis of augmented data for enhanced brain tumor image classification using transfer learning	Computational Intelligence in Healthcare Applications - Elsevier	July- 22
11.	Prof. Sridhar Iyer	Book	National	Infrastructure Security	Tech Neo Publications	July- 22



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4.2 Interaction of Faculty with Outside World

Sr.No	Name	Activity
1.	Dr. Narendra Shekokar	Delivered an expert talk on topic "Prioritization and Selection of Patentable Projects in Emerging Technologies" Dated 15 Oct 2022
2.	Dr. Nilesh Patil	Worked as Resource person for Faculty Orientation Programs conducted by University of Mumbai
		Conducted a session as a resource person on the topic "Applications of Automata Theory" at Fr. CRCE
		Visited Theem College of Engineering, as Mentors under IIC
3.	Dr. Kranti Ghag	Worked as Resource person for Faculty Orientation Programs conducted by University of Mumbai
		Delivered a Seminar on Patent Filing organized by IIC-IPR Cell of Xavier Institute of Engineering, Mahim
4.	Dr. Ramchandra Mangrulkar	Worked as Reviewer for SPICON-2022 (Sardar Patel International Conference on Industry 4.0 - Nascent Technologies and Sustainability for 'Make in India' Initiative)"
		Reviewer for National Institute of Technology, Delhi 4th International Conference on Communication and Intelligent Systems
5.	Prof. Sridhar Iyer	Visited Theem College of Engineering, as Mentors under IIC
		Resource person for Online Orientation Program for the course "Ethical Hacking (HCSC501)" organized by Vidyalankar Institute of Technology



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4.3 Seminars/Workshops/Conferences/FDP/STTP/Expert talk organized

Sr. No.	Name	STTP / Workshop / Seminar Details
1.	Dr. Kiran Bhowmick	Educator Awareness session on Digital Age Innovation (Webinar) Speaker: Mr. Pinaki Bhowmick No. of Participant: 32 Venue: Online Date: 12 th August 2022

4.4 Seminars/Workshops/Conferences/FDP/STTP/Expert talk attended

Sr. No.	Name	Activities
1.	Dr. Nilesh Patil	1. Attended ISTE approved STTP on “Artificial Intelligence Towards Data Science Applications.” 2. Attended ISTE approved STTP on “Deep Learning Tools and its Applications.” 3. Completed a 12 weeks course by Swayam, NPTEL and IIT Roorkee titled as "Introduction to Machine Learning" 4. Attended a FDP on “Recent Trends in Artificial Intelligence and Machine Learning.” 5. Attended a FDP on “Implementation of NEP-2020 for University and College Teachers”
2.	Dr. Kranti Ghag	1. Completed a 30 hours online training session on Innovation Ambassador (IA) training ‘Foundation Level’ by MoE’s Innovation Cell and AICTE. 2. Completed a 12 weeks course by Swayam, NPTEL and IIT Roorkee titled as "Introduction to Machine Learning" 3. Attended the Innovation Ambassador (IA) training, Advanced Level by MoE's innovation Cell & AICTE in online mode for IIC calendar year 2021-22.



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3.	Dr. Aruna Gawade	1. Completed a 12 weeks course by Swayam, NPTEL and IIT Roorkee titled as "Introduction to Machine Learning"
4.	Dr. Kiran Bhowmick	1. Completed a 12 weeks course by Swayam, NPTEL and IIT Roorkee titled as "Introduction to Machine Learning"
5.	Prof. Aniket Kore	1. Attended a webinar on Data Science And Machine Learning Using Python organized by McGraw Hill



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5. STUDENTS' ACHIEVEMENTS

S.E.

Sr. No.	Name	Achievements
1	YASH SHAH	Selected for internship at Harvard's DigitalSoul Team and DigitalFirst Team
2	ADNAN AHMED	Scored a 100% score in MSCI Developer Challenge India, getting a Rank 11 overall.

T.E.

Sr. No.	Name	Achievements
1	SALONI PATEL	Published a technical paper titled "TrustyMed - A virtual clinic" in 3rd International Conference on Sustainable Expert Systems (ICSES 2022)
2	LOKITA VARMA	Finished among the Top 7 teams all over India in Smart India Hackathon
3	SARTHAK BHAN	Shortlisted among the top 50 candidates all over India to attend the summer school on data sciences by ACM and hosted by IIT Gandhinagar.
4	DISHANT ZAVERI	Winner of Smart India Hackathon 2022
5	ADITYA SHAH	Published a research paper titled "Textbrew: Automated model selection and hyperparameter optimization" in an International Journal
6	AISHWARYA SURVE	
7	LOKITA VARMA	Published a research paper titled "Interactive Gaming Experience in VR integrated with Machine Learning" in an International Conference
8	SARTHAK BHAN	
9	LOKITA VARMA	Team got shortlisted amongst the top 165 among 2800 teams for the national level hackathon conducted by Chegg.



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10	PRIYANSH SHAH	Published a paper titled "Automated generation of Cricket highlights using Score Extraction and Action Recognition" in 3rd GCAT Conference, IEEE Bangalore.
11	ROSITA D'MELLO	Won 1st place in UIA Hackathon, organized by Gautam Buddha University, Greater Noida, from 22nd to 25th November 2022
12	MANAN SHAH	
13	DRISHTI D	

B.E.

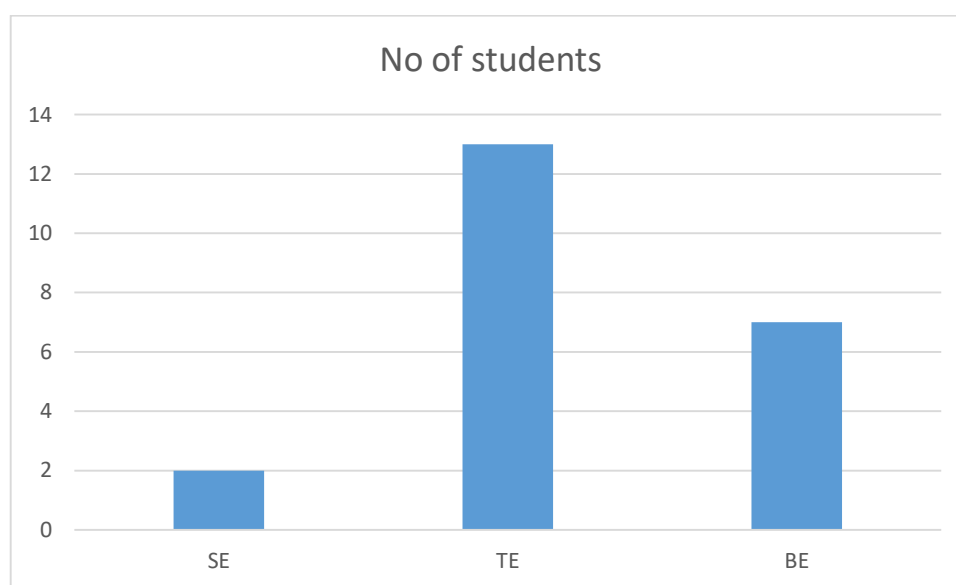
Sr. No.	Name	Achievements
1	MAYANK GOHIL	Published a paper with title 'Text to Song Synchronization Using Deep Neural Network' in journal 'BOHR International Journal of Computer Science'
2	AYUB SHAIKH	
3	SHREYAS TEJAM	
4	JAY DEDHIA	
5	PAWAR PRAKASH	Secured a Global Rank 502 and All India Rank 315 at Google Kickstart Round E
6	HITANSH SURANI	Published a paper in ICDMAI titled as 'Depression detection using transformer networks'.
7	PARTH PAWAR	Won 3rd prize at Crackathon event organized by KJ Soumaiya College of Engineering.



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□ STUDENTS COUNT

Sr. No.	Class	No of students
1	SE	2
2	TE	13
3	BE	7



Student Activities Analysis



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6. PLACEMENT DATA

Sr. No.	Name of the Company	Total Package in LPA	Total Number of Students Placed
1	Adobe	40	1
2	Dolat Capital	23	1
3	Dolat Capital	21	4
4	Dolat Capital	18	6
5	JP Morgan	17.75	20
6	Visible Alpha	15.4	1
7	Forcepoint	14.5	2
8	ZS Associates	13.65	3
9	ISS Governance	13	6
10	Bank of America	12	1
11	Interactive Brokers	10.4	1
12	IIFL	10	3
13	Sharekhan	10	1
14	Falkonry	9.61	1
15	Think 360	9.55	1
16	Belden	8.8	1
17	Cimpress	8.8	2
18	Bildesk	8.5	1
19	Quantiphi	8.5	7
20	OFSS	8.11	5
21	Edelweiss	8	1
22	GEP	8	2
23	Indus Valley	7.5	1
24	HDFC	7.1	1
25	EY	6.6	3