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Department of Computer Engineering

ACADEMIC REPORT
July2020 – December 2020

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3. Special Academic Programs

4. Faculty Contribution

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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)

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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 stateof-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   Prof. Aruna Gawade   Prof. Pankaj
Sonawane

Project Committee

Prof. Chetashri Bhadane   Prof. Ruhina Karani

Academic Report

Prof. Chetashri Bhadane   Prof. Aniket Kore   Prof. Jesleena
Gonsalves

Departmental Library Committee

Prof. Pankaj Sonawane   Prof. Sonali Jadhav

Maintenance Audit Committee

Prof. Pankaj Sonawane

DJ Unicode Committee

Dr. Narendra Shekokar   Prof. Pranit Bari   Prof. Aniket Kore

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Program Assessment Committee

Dr. Narendra Shekokar	Dr. Meera Narvekar
Dr. Ram Magrulkar	Prof. Aruna Gawade
Prof. Kiran Bhowmick	Prof. Khushali Deulkar
Prof. Chetashri Bhadane	Prof. Ruhina Karani
Prof. Pranit Bari	

Time-Table Committee

Prof. Lakshmi Kurup	Prof. Deepika Dongre

Cultural Committee

Dr. Meera Narvekar

Prof. Sudhir Bagul

Placement Committee

Prof. Kriti Srivastava

Prof. Pankaj Sonawane

SAP Attendance

Prof. Khushali Deulkar

Prof. Lynette D'mello

Prof. Deepika Dongre

Internship Committee

Dr. Ram Mangrulkar

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Sports Committee

Dr. Narendra Shekokar
Prof. Pankaj Sonawane

Alumni coordinator

Prof. Khushali Deulkar
Prof. Ruhina Karani

Stationary Incharge

Prof. Ashok Patade

Mentor Incharge

Prof. Sindhu Nair

Entrepreneurship Incharge

Dr. Ram Mangrulkar

Exam Coordinator

Prof. Ruhina Karani
Prof. Deepika Dongre

Lab Incharges

Prof. Kiran Bhowmick

Prof. Aruna Gawde

Prof. Chetashri Bhadane

Prof. Sindhu Nair

Prof. Ashok Patade

Prof. Pratik Kanani

Class Incharges

Prof. Deepika Dongre

Prof. Aniket Kore

Prof. Lynette D'Mello

Prof. Kriti Srivastava

Prof. Ruhina Karani

Prof. Sindhu Nair

3. SPECIAL ACADEMIC PROGRAMME

3.1 Seminar on Database in Production Environment organized on 3rd Nov, 2020.

Objective:

The seminar was organized specially for the students of third year computer engineering with the goal to help them to understand the need and use of Databases along with other related technologies in the Production environment.

Speakers:

> Ms. Pooja Kulkarni, Senior Associate, Morgan Stanley

No. of participants: 100

Topics Covered:

- Importance of DBMS in production environment.
- Granularity and serialization.

Outcome:

The participants understood the usage of Database systems and approaches which industry people have been using to design the projects. The participants provided positive feedback regarding the content, delivery, knowledge of a guest speaker and organization of the seminar.

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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	Pre CDACI: Prequential Learning Based Concept Drift Detection and Adaptation for Classification of Imbalanced Data Streams	International Journal of Advanced Science and Technology (Elsevier)	2020
2.	Dr. Narendra Shekokar	Journal	International	MITM Attack Prevention Using PUF authentication in Smart Grid	International Journal of Advanced Science and Technology	2020
		Journal	International	Design of Machine Learning and Rule Based Access Control System with Respect to Adaptability and Genuineness of the Requester	EAI endorsed Transactions on Pervesive Health and Technology	Sept, 2020
3.	Dr. Ramchandra Mangrulkar	Journal	International	Leveraging Data Science in Cyber Physical Systems to Overcome Covid-19	Journal of University of Shanghai for Science and Technology,	Oct, 2020

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		Journal	International	Prediction and Diagnosis of COVID-19 using Machine Learning Algorithms	International Journal of Recent Technology and Engineering (IJRTE)	Sept, 2020
		Journal	International	Image Modification using Text with GANs	International Journal of Engineering Applied Science and Technology	2020
		Journal	International	Document Summarization using Graph Based Methodology	International Journal of Computer Applications Technology and Research	2020
		Conference	International	Virtual Farmer	International Conference on Computing Communication and Networking Technologies(ICCNT)	1st-3rd July 2020
4.	Aruna Gawade	Journal	International	MITM Attack Prevention Using PUF authentication in Smart Grid	International Journal of Advanced Science and Technology	2020
5.	Kiran Bhowmick	Journal	International	Pre CDACI: Prequential learning based Concept drift Detection and Adaptation for Classification of Imbalanced data streams	International Journal of Advanced Science and Technology (Elsevier)	2020

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		Conference	International	Covid-19 database management a Non-Relational Approach (NoSQL & XML)	3rd International Conference on Intelligent Data Communication Technologies and Internat of Things (ICICI-2020)	Aug, 2020
		Conference	International	AutoEncoder Embedding, Segmentation and Classification of Apparel Images using A Deep Convnet Approach	4th International Conference on Electronics, Communication and Aerospace Technology (ICECA-2020)	Nov, 2020
		Conference	International	Pneumonia Detection using X-ray Images and Deep Learning	Information and Communication Technology for Competitive Strategies (ICTCS 2020)	Dec, 2020
6.	Kriti Srivastava	Journal	International	Design of Machine Learning and Rule Based Access Control System with Respect to Adaptability and Genuineness of the Requester	EAI endorsed Transactions on Pervesive Health and Technology	Sept, 2020
		Conference	International	Slouch detection using OpenPose Architecture	International Conference on Intelligent system, Data Science and Computing	Nov, 2020

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		Conference	International	Exploradar: User Centric Intelligent Document Retrieval System	International Conference on Intelligent system, Data Science and Computing	Nov, 2020
		Journal	International	StackNet-DenVIS: a multi-layer perceptron stacked ensembling approach for COVID-19 detection using X-ray images	Physical and Engineering Sciences in Medicine	Dec, 2020
7.	Chetashri Bhadane	Conference	International	Context aware next location prediction using data mining and metaheuristics	Evolutionary Intelligence, Springer journal	Sept, 2020
8.	Ruhina Karani	Conference	International	Pothole Detection and Dimension Estimation System using Deep Learning (YOLO) and Image Processing	The 35th Conference on Image and Vision Computing Wellington, New Zealand.	25-27 Nov, 2020
		Conference	International	Generation of Indian sign language by sentence processing and generative adversarial networks	3rd International Conference on Intelligent Sustainable Systems (ICISS 2020)	Dec, 2020
9.	Pankaj Sonawane	Journal	International	A Multi-Modular Approach for Gesture Recognition and Text Formulation in American Sign Language	International Journal of Computer Applications Technology and Research	2020

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		Conference	International	Pneumonia Detection Using Convolutional Neural Networks	Third International Conference on Smart Systems and Inventive Technology (ICSSIT)(IEEE)	2020
		Conference	International	Virtual Farmer	International Conference on Computing Communication and Networking Technologies(ICCNT)	1st-3rd July 2020
10.	Pratik Kanani	Journal	International	Implementing and Evaluating Health as a Service in Fog and Cloud Computing using Raspberry Pi	International Journal of Intelligent Engineering and Systems	2020
		Journal	International	ECG Image Classification Using Deep Learning Approach	Handbook of research on disease prediction through data analytics and machine learning	2020
		Journal	International	Optifog: optimization of heterogeneous fog computing for qos in health care	Journal of Theoretical and Applied Information Technology	Nov, 2020
		Conference	International	Analyzing ECG waves in Fog Computing Environment using Raspberry Pi Cluster	Proceedings of the Fourth International Conference on I-SMAC	2020
		Conference	International	Deep Learning model-based Multimedia forgery detection	Proceedings of the Fourth International Conference on I-SMAC	2020

4.2 Interaction of Faculty with Outside World

Sr.No	Name	Activity
1.	Dr. Ram Mangrulkar	Delivered a Keynote on "Innovation in Research Tools and Technology: Past, Present and Future" in AICTE Sponsored Two Days International e-Conference on "Innovations in Engineering & Technology" (ICIET-20)
		Delivered a Talk on "Innovation in Research; Tools and Technology" in AICTE-ISTE One Week Refresher Course on "Research Methodology and Data Analysis at JSPM's Rajarshi Shahu College of Engineering, Pune 18th December 2020.

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

Sr. No.	Name	STTP / Workshop / Seminar Details
1.	Chetashri Bhadane	Conducted a Seminar "Database in Production Environment" Speaker: Ms Pooja Kulkarni No. of Participant: 100 Venue: Online, Date: 03/11/2020

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

Sr. No.	Name	Activities
1	Dr. Ram Mangrulkar	Attended IBM Training on Predictive Analytics Date: 1st to 4th December 2020
2	Khushali Deulkar	1. FDP on Stress-management, ATAL Academy Date:26th-30th August 2. FDP on Personal Effectiveness, ATAL Academy Date: 21st -25th September. 3. Workshop on Inculcating Universal Human Values in Technical Education. Date: 18th -22nd July 4. Attended IBM Training on Predictive Analytics Date: 1st to 4th December 2020
3	Chetashri Bhadane	Deep Learning and Artificial Intelligence Date:21st -25th September
4	Ruhina Karani	1. Industrial Training on Machine Learning Date:22nd -26th July 2. FDP on Satellite Photogrammetry and its Application Date:29th June-3rd July 3. Industrial Training on Applied Statistics Date: 28th June-2nd July 4. FDP on Computer Vision and Pattern Recognition: Challenges and Opportunities Date:21st -25th September 5. FDP on Computer Science & Biology Date:19th -23rd October 6. Workshop on Inculcating Universal Human Values in Technical Education Date:18th -22nd July
5	Pranit Bari	Attended IBM Training on Predictive Analytics Date: 1st to 4th December 2020
6	Deepika Dongre	1. FDP on Data Sciences. ATAL Academy Date:20th October 2. FDP on Deep Learning and Artificial Intelligence Date: 21st -25th September

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7	Pankaj Sonawane	FDP on Machine Learning Using Python Date: 10th-14th August
8	Sonali Jadhav	FDP on Insights into Intelligent Automation, Machine Learning and Data Science: Foundation of Data Science Date: 19th-31st October

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5. STUDENTS'ACHIEVEMENTS

S.E.

Sr. No.	SAP ID	Name	Achievements
1	60004190123	Vidhan Shah	Received a Special Mention and was awarded with an internship at the CODEIT 2020 Hackathon

T.E.

Sr. No.	SAP ID	Name	Achievements
1	60004180003	Ahan Dalia	Received Most Inspiring Solution Award' at Global DWS Robocon Hackathon.
2	60004180118	Vatsal Khandoor	"Prediction of IPL matches using Machine Learning while tackling ambiguity in results," published in *Indian Journal of Science and Technology*

B.E.

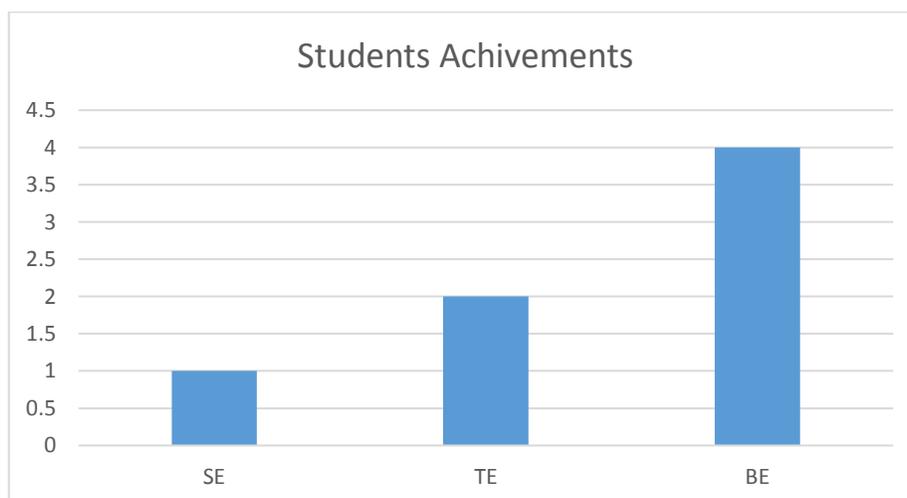| Sr. No.	SAP ID	Name	Achievements
1	60004170012	Ankit Gupta	Research paper "ResQ Smart Safety Band," published in *IEEE Xplore*
	60004188017	Dev Savla	
	60004170112	Soham Parekh	
	60004170024	Devansh Agarwal	
2	60004188007	Neel Patel	"4S Framework: A Practical CPS Design Security Assessment & Benchmarking Framework," Chapter accepted for publication in a book *Cyber Security and Digital Forensics: Challenges and Future Trends*, *Wiley Publications*.
	60004188018	Yash Shah	

3	60004188007	Neel Patel	"Comprehensive Study of Failed Machine Learning Applications Using a Novel 3C Approach," accepted for publication in book to be published under *Taylor & Francis Publication*.
	60004188001	Prem Bhajaj	
	60004188006	Pratik Panchal	
	60004188012	Tanmai Prabhune	
4	60004170095	Romil Nisar	"GANS: Initial Boost, Working and Classification Scheme for its application," published in *International Journal of Computer Application (IJCA)*
	60004188007	Neel Patel	

STUDENTS COUNT

Sr. No.	Class	No of students
1	SE	1
2	TE	2
3	BE	4

Student Activities Analysis

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7. PLACEMENT DATA

Sr.No	Name of Company	Total Number of Students Placed	Total Package in LPA
1	Accolite	8	9-11
2	Cimpress	4	12
3	Dolat Capital	2	11.5
4	JP Morgan Chase & Co.	10	14
5	Morgan Stanley	2	25.33
6	Tresvista	2	6.4
7	ZS Associates	2	8.9
8	Edelweiss	2	7
9	Interactive Brokers	3	9.35
10	Quantiphi	17	8.5
11	RBL BANK	2	9
12	TCS DIGITAL	13	7.3
13	LTI	18	5,6.5
14	TCS ninja	16	3.6
15	Oracle	4	5.2
16	Jio	2	4
17	Amdocs	5	5
18	Billdesk	4	5
19	Cognizant	9	4
20	Visible Alpha	3	6
21	Infosys	1	3.6
22	EY	1	4.5
23	LTFS	1	6
24	NSE	3	5.5
25	HCL	2	3.5
26	AGR	1	4
27	L &T	1	6.5
	TOTAL	137	

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No of Students Placed in Normal, Dream and Super Dream Companies

TOTAL OFFERS GOT BY STUDENTS

NORMAL   DREAM   SUPER DREAM