Department of Computer Engineering

<mark>17. List of Research Projects / Consultancy Works:</mark>

Number of Projects carried out , funding agency , Grant received (in 2017-2018) : 01

Sr.No.	Title of Grant	Investigators	Period of Grant	Scheme	Sanctioned Amount (INR)
1	Handwritten Chaarcter recognition for Devnagari script using density based clustering	Dr.Sunita Jahirabadkar Dr.Sandhya Arora	2016-2018	SPPU,BCUD Research Funding	80,000

- **Publications (if any) out of research in last three years out of master projects (for 2017-18, 2016-17, 2015-16)**

Count Summary
Academic Year 2017-2018

Sr.No.	Total Count	Journal	National Conference	International Conference
1.	12	02	01	09

List of Faculty Research Publication 2017-2018

Sr. No.	Author	Type of Journal / Conference	Topic Name	Issue/ date	Vol.
1.	Dr. Supriya Kelkar	International Conference on Information, Communication, Instrumentation and Control - 2017 (ICICIC-`17)	Leader based adaptive fault diagnosis algorithm for distributed system	17th-19th August 2017	-

2	Dr. Supriya Kelkar	6th International Conference on Advances in Computing, Communications and Informatics (ICACCI) -2017	Coordinator-based adaptive fault diagnosis algorithm for distributed computing systems	13th-16th September 2017 at Manipal Institute of Technology, Manipal	-
3	Dr. Supriya Kelkar	International Conference on Advancement in Engineering, Applied Science and Management (ICAEASM-2017)	An insight into performance and security bugs in IoT operating systems : A Literature Review	C-DAC, (Mumbai) Centre for Development of Advanced Computing Mumbai, (India) 18th June 2017	-
4	Ms.Sarika Hulyalkar	3rd International Conference on Computing,Communication and Automation (ICCUBEA-2017) at PCCOE, Pune	Optimal Solution Generation from Reviews and Micro-Reviews using Greedy Algorithm	17 and 18 August 2017	-
5	Ms.Jyoti Langhi	7th International Conference on Engineering Technology, Science and Management Innovation (ICETSMI-2017) organized by The Institution of Electronics and Telecommunication Engineers (IETE) New Delhi , India.	"Distributed Crawler for Detection and Removal of DUST using DUSTER"	ISSN 2394 – 3386, Issue 7 , Volume 4 July 2017	-

		Published in International Journal of Engineering Technology Science and Research			
6	Mrs. Chhaya Gosavi	2nd International Conference on Intelligent Computing and Communication, ICICC, MITCOE, Pune, 2017	" Analysis of Blind Image Watermarking Algorithms"	August 2-4, 2017	-
7	Mrs. Chhaya S. Gosavi	Indian Journal of Science and Technology(IJST) (Web of Science (indexed)	"Secure, Robust Video Watermarking to Prevent Camcorder Piracy"	Issue 18, pp.1-10, 2017	Vol 10,
8	Dr.Sunita Jahirabadkar	INNOVATION-2017 (Regional Research Conference) in association with SPPU organized at PICT,Pune	"Handwritten Character recognition for Devnagari script using density based clustering"	15th November 2017	-
9	Dr.Sandhya Arora	INNOVATION-2017 (Regional Research Conference) in association with SPPU organized at PICT,Pune	"Handwritten Character recognition for Devnagari script using density based clustering"	15th November 2017	-
10	Dr.Sunita Jahirabadkar	International conference on Emerging Trends in Science, Engieering and Technology (ICETSET-2018) at D.Y.Patil College of Engieering,	"A Systematic review of near duplicate	8th May 2018 - 9th May 2018, published in	-

		Akurdi,Pune in association with Labtech Innovations.	video retrieval techniques"	International Journal of Pure and Applied Mathematics Volume 118 No. 24 2018 ISSN: 1314-3395 (on-line version)	
11	Dr.Sunita Jahirabadkar	Springer's International Conference on Data and Information Sciences (ICDIS-2017), 3-4th November 2017 at Indira Gandhi National Tribal University, Amarkantak, M.P., India.	"An insight into Theory-Guided Climate Data Science – A Literature Review"	Published in Springer Book Series " Lecture Notes in Networks and Systems 38", vol-1	-
12	Dr.Sandhya Arora	International Journal Business Intelligence and Data Mining	Recognition of sign Language using Image processing	Vol.13, Nos.1/2/3 2018 (Published in July-2017)	-

Count Summary
Academic Year 2016-2017

Sr.No.	Total Count	Journal	National Conference	International Conference
1.	12	09	-	03

List of Research Publications in 2016 – 2017

Sr. No	Author	Name of Journal / Conference	Topic Name	Vol.	Issue/date
1.	Mrs. Aparna Hajare	IJLTEMAS	Innovation Management Software: A Platform to Innovate More Effectively	Volume V, Issue VI,	June 2016
2.	Mrs.Shubhangi Tikhe, Mrs. Anjali Naik	Indian Journal of Science and Technology	Multipoint search algorithm for automatic segmentation of tooth from digital intra oral periapical radiographs	Volume 9, Issue 21	16 June 2016
3.	Mrs.Anjali Naik, Mrs.Shubhangi Tikhe	Indian Journal of Science and Technology	Automatic segmentation of lower jaw and mandibular bone in digital dental panoramic radiographs	Volume 9, Issue 21	16 June 2016
4.	Mrs.Anjali Naik, Mrs.Shubhangi Tikhe	Indian Journal of Science and Technology	Designing a Feature Vector for Statistical Texture Analysis of Mandibular Bone	Volume 9, Issue 33	14 Sept 2016
5.	Shubhangi Tikhe, Anjali Naik	Indian Journal of Science and Technology	Classification of Digital Intra Oral Periapical Radiographs by Selecting a Feature Vector using Hybrid Method for Selection of Features	Volume 9, Issue 33	14 Sept 2016
6.	Mrs. Neeta Maitre	IJPCBS	Prediction Of Bacterial Infection in Cotton Using Expressed Sequence tags	Vol. 6,Issue 4	Oct 2016

Sr. No	Author	Name of Journal / Conference	Topic Name	Vol.	Issue/date
7.	Mrs. Neeta Maitre	IJIET	Expressed Sequence Tags and Gene Prediction	Vol 7, Issue 4	Dec 2016
8.	Ms.Sarika Hulyarkar	IJIRCCE	Optimal Solution Generation from Micro-reviews using Greedy Approach	Vol 4, Issue 12	December 2016
9.	Ms.Jyoti Langhi	IJIRCCE	Detection and Removal of DUST : Duplicate URLs with similar text using DUSTER	Vol 5 , Issue 1	January 2017
			Conference		
10.	Mr. Prakash Date	International Conference on Advanced Signal Processing (CASP 2016), sponsored by IEEE & IET held in CCOEW	Proximity Based and Security Aware Rewarding System for Mobile Marketing		10th & 11th June 2016.
11.	Mrs. Madhuri Tasgaonkar	International Conference on Signal and Information Processing (IConSIP2016) at SGGS, Nanded	Using Differential Morphological Profiles for Micro-aneurysm Detection in Diabetic Fundus Images		6th to 8th Oct 2016
12.	Mr. Ravikiran Holkar	ICSP 2016 at Samrat Ashok Technological Institute ,Vidisha (M.P.)	Identification & Classification of Cotton Plant Leaf Diseases using Image processing Techniques		Nov 2016

Count Summary
Academic Year 2015-2016

Sr.No.	Total Count	Journal	National Conference	International Conference
1.	**07**	**03**	-	**04**

List of Research Publications in 2015 – 2016

Sr.No	Author	Name of Journal/ Conference	Topic Name	Issue/ date	Vol
1	Mrs. Pranjali Deshpande	International Journal of Computer Science and Information Security	Methodology of Assigning Musical Notations to Sanskrit Verse	Issue 6 June 2015	Vol. 13
2	Mrs. Chhaya S. Gosavi	International Journal of Computer Applications	Video Authentication and Copyright Protection Using Unique Watermark Generation Technique and Singular Value Decomposition	Aug 2015	(0975–8887) Volume 123 – No.3, pp. 1-5
3	Mrs. Chhaya S. Gosavi	Global Journal of Pure and Applied Mathematics	Watermarking for Video using single channel block based schur decomposition	Feb 2016	Vol 12, Issue 2
	Conference				

Sr.No	Author	Name of Journal/ Conference	Topic Name	Issue/ date	Vol
4	Mrs. Chhaya S. Gosavi	Second International Conference On Advances in Computing, Control And Networking – ACCN, Copyright © Institute of Research Engineers and Doctors, USA	Comparative Performance Analysis of Video Watermarking in DCT, DCT-SVD Domains	Aug 2015	Proc. Published in ISBN: 978-1-63248-073-6 doi: 10.15224/ 978-1-63248-073-6-86
5	Mrs.Neeta P. Maitre	International conference on Innovative Research in Biotechnology , Biomedical Sciences, Bioinformatics and Stem Cell Applications	Expressed sequence tags and gene prediction in cotton genome	30th Jan 2016	Proc. of conference : International Journal of Basic and Applied Biology (Volume 3-Issue 1, ISSN:2349-5820
6	Mrs. Shubhangi Tikhe, Mrs. Anjali Naik	6th IEEE International Advance Computing Conference, Bhimavaram andhra pradesh	Algorithm to Identify Enamel Caries and Interproximal Caries Using Dental Digital Radiographs	27-28th February 2016	
7	Mrs. Anjali Naik, Mrs. Shubhangi Tikhe	6th IEEE International Advance Computing Conference, IEEE Conference Bhimavaram andhra pradesh	Algorithm to Detect Fracture from OPG Images Using Texture Analysis	27-28th February 2016	

- **Industry Linkage :**

  ## 1. Citi-Bridge : CitiBridge 2018

  Citi, a renowned multinational company and a world leader in the banking sector, has designed a unique program "Citi Bridge" for select 100 students from Maharshi Karve Stree Shikshan Samstha's (MKSSS) Cummins College of Engineering for Women, Pune. The objective is to promote women in technology through skill development.

  The Citi Bridge Program aims to promote entry level women for careers in technology and banking by imparting practical knowledge and industry perspectives from technology experts at Citi. The structured, 100-hour program includes topics such as basics of banking and finance, technology and functional training, professional development and technical assignments. The participants also receive an opportunity to apply to Citi as part of the Bank's Citi Analyst Program.

  After the stupendous success of the first Citi Bridge program, The second Citi Bridge program for the current batch of Third year Computer and IT students of MKSSS's Cummins College of Engineering for Women was rolled out in January 2018 and has successfully completed.

  The training was conducted at Citi's office in Pune, which houses operations and technology teams. The technology experts from Citi became mentors on the assignment work. The participants were extremely engaged through the program. A graduation ceremony was held on 21st March 2018 which marked the successful completion of the second edition of Citi Bridge Program. Preplacement offers have been made by Citi to some of the participants

  ## 2. Guest Lectures/Workshops by Industry in 2017-2018 :

  Guest Lectures Total Count = 14
  Wokshops by Guests =04

Details of Expert Lectures arranged in 2017-2018

Sr.No	Name of the faculty Coordinator	Name,Designation and Company of the expert faculty	Topic	Date	Target Audience Students
1	Dr. Sunita Jahirabadkar	Dr. Parag Kulkarni, Director (iKnowlation Research Labs)	"YD and Innovation"	12th Sep 2017	SY Computer students
2	Rakhi Dongaonkar	Ms. Stacey Lacy, Managing Director at CitiCorp	Women in Technology	20th Sep 2017	TE Comp and IT students
3	Dr. Sandhya Arora, Prof Swati Shirsath	Mr. Sachin Bapat, process managed, SQS India Infosystem Pvt Ltd	Software testing:Contemporary and emerging trends	25 sept 2017	TE Comp
4	Prof. Hitendra Khirnar, Prof. Rakhi Dongaonkar, Prof. Nilofer Atar, Prof. Jyoti Bhangre	Amol Dhondse & Anand Pikle - Lead IT architect at IBM	Big Data and Hadoop	22nd Sep 2017 2:00-3:30pm	TE Comp
5	Prof. Hitendra Khirnar,	Amol Dhondse & Anand Pikle - Lead IT architect at IBM	Cognitive Computing and Robot demo	22nd Sep 2017 3:30-5:00pm	BE Comp
6	Prof. M. P. Deore S.P Mengale.	Mahendra Murkute| Manager | Tax and Regulatory Services - Infrastructure, Industrial & Consumer,Ernst & Young LLP	Importance of Engineering Economics	25 sept 2017	TE Comp
7	Prof. S.V.Tikhe, Prof. M. P. Deore	QAIDJOHAR ZOEB JAWADWALA, IT Consultant	"Cisco Packet Tracer and Router Configuration"	5th Oct 2017	TE Comp
8	Dr. S M Kelkar	Ms. Sonali Kakade	Personality development	4 Jan 2018	TE Comp

9	Dr. S M Kelkar	Ms. Meghana Vaidya	Leadership	9 Jan 2018	TE Comp
10	Prof. H S Khairnar	Amol Dhondse, Sr. Solution Architect, IBM	AI and Machine Learning	20 feb 2018	BE Comp and BE IT
11	Prof. H S Khairnar	Kranti Athalye, HR, IBM	Block Chain and Cognitive Computing	20 feb 2018	BE Comp and BE IT
12	Nilofer Attar	Mr. Santosh Randive, Test manager, Brightrock insurance services, South Africa	Software testing tools	26 March 2018	BE Comp
13	Dr. S M Kelkar	Ms. Sonali Kakade	Personality development	4 Jan 2018	TE Comp
14	Dr. S M Kelkar	Ms. Meghana Vaidya	Leadership	9 Jan 2018	TE Comp
WORKSHOP					
1	Dr. Sunita Jahirabadkar	Kanchan Kamat, Anagha Bhave	Data Management	5 Feb 2018	BE Comp
		Manoj Singh	Data Analytics	6 Feb 2018	BE Comp
		Unnikrishnan Menon, Sunaina Miglani	Data Reporting	7 Feb 2018	BE Comp
		Kanchan Kamat, Anagha Bhave, Manoj Singh, Unnikrishnan Menon, Sunaina Miglani	Case Study	8 Feb 2018	BE Comp

3. Industrial Visits (in 2017-2018): 03

This year , the department had organized Industrial visit to Three IT companies on various days. These companies are visited as Tech Mahindra (01 Feb 2018),PSL (02 Feb 2018), DELL EMC(05 Feb 2018). In all 232 students from TE visited the various companies along with faculty members, Prof. Anjali Naik, Prof. Dr. Sandhya Arora,Prof. Hitendra Khairnar, Prof. Sakshi Mandke, Prof.Pranjali Deshpande, Prof.Mahendra Deore, Prof. Vaishali Salgar, Prof. Nutan Deshmukh, Prof. Hitendra Khairnar,Mr. Harshad Mhasawade, Ms. Deepali Nagrale, Ms. Namita Gajmal, Ms. Vrushali Shinde . These visits were arranged and coordinated by Prof. Pranjali Deshpande.

Industrial Visits 2017-18

Sr No	Week	Industry Visited	Total Number of Students Visited	Students from	Location	Name of Faculty Visited	Organized By
1	1. Feb. 2018	Tech Mahindra	65	TE	Hinjewadi	Dr. Sandhya Arora Prof. Vaishali Salgar Ms.Vrushali Shinde Ms.Namita Gajmal	Pranjali Deshpande
2	2. Feb. 2018	Persistent Systems	125	TE	Hinjewadi	Mahendra Deore, Hitendra Khairnar,Anjali Naik,Deepali Nagrale, Nutan Deshmukh, Harshad Mhaswade,	Pranjali Deshpande
3	5. Feb. 2018	DELL EMC	42	TE	Hinjewadi	Sakshi Mandke, Pranjali Deshpande	Pranjali Deshpande

- **MOUs with Industries (Minimum 3) :** NIL