

J. Research Profile - Management

12.1	<p>Faculty-wise and Department-wise information to be provided in respect of the following:-</p> <ul style="list-style-type: none"> ➤ Student Teacher Ratio ➤ Class Rooms ➤ Teaching labs ➤ Research labs (Major Equipments) ➤ Research Scholars (M.Tech, Ph.D., Post Doctoral Scholars) ➤ Publications in last 3 years (Year-wise list) ➤ No. of Books Published ➤ Patents ➤ Transfer of Technology ➤ Inter-departmental Research (Inter-disciplinary) ➤ Consultancy ➤ Externally funded Research Projects ➤ Educational Programmes Arranged 	<p>15 : 1</p> <p>6</p> <p>3</p> <p>N.A.</p> <p>21 (PhD in Management)</p> <p>Details Given Below</p> <p>8</p> <p>N.A.</p> <p>N.A.</p> <p>14</p> <p>40 assignments in the last 5 years.</p> <p>10 (SPPU – BCUD)</p> <p>8 – National Conferences</p> <p>3 – State Conferences</p> <p>1 – Doctoral Conference</p> <p>Number of FDPs on diverse topics.</p>
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Publications

Name of the Faculty Member	2015-16	2014-15	2013-14	2012-13	Total
Dr. Shailesh Kasande	2	2	2	2	8
Dr. Yuvraj Lahoti	1	0	2		3
Dr. Arya Baride	---	---	1	---	1
Dr. Sunil Doke	0	1	1	2	4
Dr. Jayashree Vispute	1	---	1	5	7
Dr. Mahesh Gadekar	2	1	1	3	7
Dr. MeenalDhotre	1	---	2	3	6
Dr. Naval Lawande	1	---	---	---	1
Dr. Sheetal Naik	---	---	5	1	6
Dr. Shraddha Purandare	1	1	3	3	8
Dr. Umesh Patwardhan	4	---	---	---	4
Mr. ManojGiri	1	---	2	---	3
Prof. Abhijeet Kelkar	---	---	2	2	4
Prof. Adwait Oak	---	1	1	---	2
Prof. Ajay Parulekar	3	1	2	---	6
Prof. Amol Randive	---	---	2	3	5

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Prof. Ashish Thite	3	---	---	---	3
Prof. Avani Pramod	---	---	3	---	3
Prof. Kailas Bhosale	---	---	1	4	5
Prof. Ketaki Kulkarni	---	---	---	3	3
Prof. MadhuraAtre	---	---	2	---	2
Prof. Nikita Nadkarni	---	---	2	---	2
Prof. SunetraGaitonde	2		---	---	2
Prof. TruptiDandekar	---	---	---	1	1
Prof. Vijaya Hake	3	1	2	6	12
Prof. Yogesh Desale	---	---	---	1	1
Total	24	7	34	37	102

J. Research Profile - Engineering

12.1	Faculty-wise and Department-wise information to be provided in respect of the following:- <ul style="list-style-type: none"> ➤ Student Teacher Ratio ➤ Class Rooms ➤ Teaching labs ➤ Research labs (Major Equipments) ➤ Research Scholars (M.Tech, Ph.D., Post Doctoral Scholars) ➤ Publications in last 3 years (Year-wise list) ➤ No. of Books Published ➤ Patents ➤ Transfer of Technology ➤ Inter-departmental Research (Inter-disciplinary) ➤ Consultancy ➤ Externally funded Research Projects ➤ Educational Programmes Arranged 	15 : 1 24 32 Please find below Please find below Details Given Below -- Details given below Nil Details given below Details given below Nil
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Research labs (Major Equipments)

Specialized equipment/Software for research is as follows:

Sr. No.	Particulars
1	MIKE 11 Software
2	Acoustic Emission Test Equipment
3	Potentiostat
4	Load Control System for Universal Testing Machine
5	MATLAB 12.6 software
6	MIDAS FEA Software
7	FFT Analyser
8	Hypermesh Software
9	Ansys Software

10	Food Preservation System
11	Vector Network Analyser
12	Four Channel Powerscope
13	Black FINN Processor based Image Processing Board
14	Compiler FORTRAN for CUDA
15	Memsic Crossbow Mokes
16	LIBELIUM WaspSmoke Platform – mokes and base station
17	LIBELIUM WaspSmoke Platform – Plug and Cells
18	LIBELIUM MESHIMUM Device

Facilities are available at two different venues:**Research Facilities:**

Material Science Laboratory

Common PG Laboratory

Other Facilities:

i. Language Laboratory

ii. Video conference room

iii. Internet Laboratory

Research Scholars (M.Tech, Ph.D., Post Doctoral Scholars)

Institute takes a number of initiatives to inculcate research culture among faculty and students by conducting workshops, internship programs etc. every year. Since the academic year 2011-12, institute has conducted 21 workshops, 13 Faculty Development programs, and 11 Training programs with duration varying from 1 to 90 days.

<u>Sr. No.</u>	<u>Guide</u>	<u>Discipline</u>	<u>Number of Students Enrolled</u>	<u>Ph.D Completed</u>
1	Prof. B. S. Karkare	Civil	2	
2	Prof. S. N. Londhe	Civil	2	
3	Prof. A. S. Tavildar	E & TC	4	
4	Prof. Y. H. Dandawate	E & TC	6	
5	Prof. R. B. Ghongade	E & TC	4	
6	Prof. Aditya Abhyankar	Computer	4	
7	Prof. C. S. Garde	Physics	2	

Publications in last 3 years (Year-wise list)

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Particulars	2013-14	2014-15	2015-16
Patents (Filed + Received)	1+0	6+1	--
Copyrights(Filed + Received)	--	6+3	--
National Conference	25	22	4
International Conference	32	35	25
National Journal	4	1	1
International Journal	73	60	31

Patents

Following faculty members have filed patents

Sr. No.	Faculty Name	Application No.	Title	Status
1	Dr. (Mrs.) V. A. Patil	10-1509533	Si/Al Multilayer thin film anode for rechargeable lithium ion battery & method for preparing the same	Received
2	Dr. (Mrs.) V. A. Patil	2014-0012542	Si-Al codeposited thin film anode for Rechargeable lithium Ion Batteries	Applied
3	Dr. Aditya Abhyankar, Mr. Shailesh Kulkarni	3541/MUM/2014	Towards Scalable Video Coding: A Wavelet Based Error Resilient Probabilistic Approach	Applied
4	Dr. Aditya Abhyankar, Mr. Rajendra Talware	3540/MUM/2014	Design of a spatiotemporal neural network for non-modular high content pathological screening	Applied
5	Dr. Aditya Abhyankar, Dr. B. P. Patil, Dr. Kulbir Singh, Mr. Tushar Jadhav, Mrs. Anuja Phadke	3544/MUM/2014	A system and method for homography based hybrid mixture models for rehab engineering	Applied
6	Dr. Aditya Abhyankar,	3551/MUM/2014	Towards	Applied

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	Abhijit Chitre		Characterization And Synthesis of Indian Tonal Musical Sounds Through Framework of Analytical Modeling	
7	Dr. Aditya Abhyankar, Dr. Y. H. Dandawate, S. N. Dharwadkar	3545/MUM/2014	Conjunctival Vasculature based Liveness detection for robust iris recognition	Applied
8	Dr. Kailas Patil Dr. Y. H. Dandawate	3421/MUM/2015	Smart Belt for Visually Impaired	Applied

Inter-departmental Research (Inter-disciplinary)

<u>Sr. No.</u>	<u>Name of faculty</u>	<u>Name of the Project</u>	<u>Name of the funding Agency</u>	<u>Grants received (in Lakhs)</u>
1	Dr. Y. H. Dandawate Dr. S. N. Londhe	Real time stream flow forecasting using neuro wavelet model	University Of Pune.	1
2	Mr. Vivek M. Aranake, Dr. C. S. Garde, Mr. M. Patil	Optimization of low voltage DC micro-grid with intelligent solar PV Utilization for a Computer laboratory	ISRO-UoP Space Technology Cell	21.39
3	Dr. C. S. Garde, Mr. V. M. Aranake, Dr. R. S. Bhalerao – Panajkar, Mr. J. G. Watve, Mr. R. P. Pawase, Dr. S. S. Prabhu, Mr. P. Deshmukh	Design, fabrication and testing of a compact and robust Monochromator	ISRO-UOP STC	19.445

Consultancy

List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

Total revenue generated in last 4 years is Rs.19.61 Lakh.

Sr. No.	Year	Department	No. of Projects	Total (Lakhs)
1	2015-16	Civil	1	0.20
2	2015-16	Mech,	1	0.45
3	2014-15	Civil	6	4.86
4	2014-15	E & TC	6	1.54

5	2013-14	Civil	5	1.5
6	2013-14	E & TC	3	1.25
7	2012-13	Civil	5	1.62
8	2012-13	E & TC	6	7.4
9	2011-12	Civil	4	0.79

Externally funded Research Projects

Various training programs, seminars are organized on how to write good research proposals. Mentors of the identified thrust research areas provide guidance for writing the research proposal and pursuing the research work. Awareness about various funding agencies is created and information is disseminated to all faculties through meetings and interaction.

MOU's are signed with different research institutes for the faculty to collaborate with researchers.

Institute supports the faculty by providing funds for proposal application fees and necessary travel during the pre-proposal period.

The total number of major and minor projects sanctioned by funding agencies in the last four years are 11 and 39, amounting to a total grant of Rs. 140.17 lakhs and Rs. 65.08 lakhs, respectively.

Minor Projects (<Rs. 3 lakhs)

Sr. No.	Name of the Faculty	Name of the Project	Name of funding agency	Grants Received (in lakhs)
1	Mrs. J. V. Bagade Mrs. K. R. Wanjale	Image Quality Assessment	BCUD-UOP	1.5
2	Dr. Y. H. Dandawate Dr. S. N. Londhe	Real time stream flow forecasting using neuro wavelet model	BCUD-UOP	1
3	Mr. T. R. Jadhav Mr. R. S. Talware	Design and Integration of temporal and evolutionary methodologies for nonmodular high content screening	BCUD-UOP	0.75
4	Mr. G. H. Chavhan	Wavelet based speech Morphing	BCUD-UOP	0.5
5	Dr. S .N. Londhe Mrs. P. R. Dixit	In filling of missing daily rainfall records using soft computing techniques	BCUD	3
6	Dr. (Mrs.) S. V. Patil	Study of electrochemical behavior of	BCUD	2.75
7	Dr. C. S. Garde	Synthesis and characterization of	BCUD	2.85
8	Dr. (Mrs.) V. A. Patil	Preparation and characterization of thin	BCUD	2.9
9	Dr. K. R. Patil	User Specified Content Security Policy	Google, USA	0.75
10	Mr. R. S. Pol	Artificial Neural Network Based Intelligent control robot navigator for fire fighter	BCUD-UOP	2.7
11	Mr. S. G. Walunj	Machine learning based recommendation system	VRPS	0.7

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12	Mr. V. M. Aranake, Mrs. S. Y. Desai, Mrs. G. V. Ghule	Design & Development of instrumentation for solar power system	TIFR	1.34
13	Mr. M. G. Gadge	Design and fabrication of Electrolytic Jet Drilling Machines (EJD)	VRPS	2.15
14	Mr. V. M. Aranake, Dr. C. S. Garde, Mr. M. Patil	Optimization of low voltage DC microgrid with intelligent solar PV Utilization for a Computer laboratory	ISRO-UoP Space Technology Cell	21.39

J. Research Profile – Commerce

12.1	Faculty-wise and Department-wise information to be provided in respect of the following:- <ul style="list-style-type: none">➤ Student Teacher Ratio➤ Class Rooms➤ Teaching labs➤ Research labs (Major Equipments)➤ Research Scholars (M.Tech, Ph.D., Post Doctoral Scholars)➤ Publications in last 3 years (Year-wise list)➤ No. of Books Published➤ Patents➤ Transfer of Technology➤ Inter-departmental Research (Inter-disciplinary)➤ Consultancy➤ Externally funded Research Projects➤ Educational Programmes Arranged	30:1 10 5 NIL 01 81 NIL 02 NIL 02 3.60 lakhs NIL Conference-04 Workshops- 15 STTP- 03 Seminars- 08
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