



Established in 1947

# Walchand College of Engineering

(An Autonomous Institute)

## Our Strengths:

- 72 Years of Excellent Standing Imparting Quality Education at PW, UG/PG and Doctoral Research
- Dynamic Curricula due to Educational Autonomy over the Period 2007-2020
- Visionary Leadership
- High Performance Ranking Under TEQIP over National Level
- Best Governance Practices
- Dedicated Faculty with Research Aptitude
- Highly Preferred Choice of Meritorious Students over Maharashtra
- State of Art Infrastructure
- Strong Liaison with the Outside World
- Network of Successful Alumni Spread over the World
- Accreditation by NAAC and NBA



Industry Sponsored  
Research Centres and MoUs



## ANNUAL REPORT 2018-19

### Vision

To produce capable graduate engineers with an aptitude for research and leadership.

### Mission

- To impart quality education through demanding academic programs.
- To enhance career opportunities for students through exposure to industry.
- To promote excellence by encouraging creativity, critical thinking and discipline.
- To inculcate sensitivity toward society and a respect for the environment.

### Objective

- Achieve excellence in learning and research through continual improvement in both content and delivery of the academic programs.
- Promote close interaction among industry, faculty and students to enrich the learning process and enhance career opportunities for students.
- Develop state-of-the-art laboratories and other infrastructure commensurate with the need of delivering quality education and research services.
- Strengthen the Institution through network of alumni and optimize use of resources by leveraging inter-departmental capabilities.
- Provide opportunities and ensure regular skill up-gradation of faculty and staff through structured training programs.

### Quality Policy

To strive for excellence in academic and research programs in order to achieve proficiency in students by adopting continually improving standards to the learning process.

### Our Inspiration



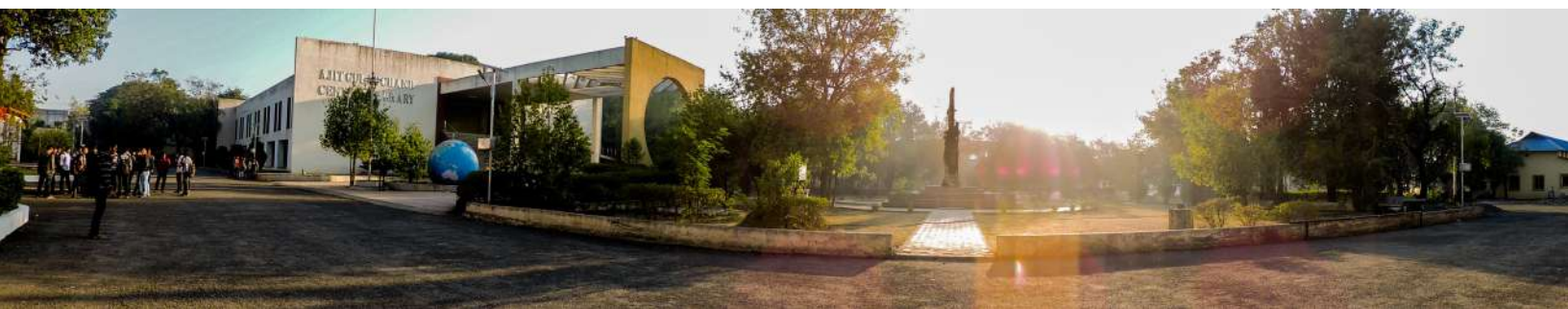
**Shri. Ajit Gulabchand**  
**Chairman, Administrative Council**

### Address

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## About Walchand College of Engineering:



Walchand College of Engineering, Sangli is one of the oldest and renowned technical institutes in Maharashtra. This college was started as a “New Engineering College” in the year 1947 by late Shri. Dhondumama Sathe. The College was renamed as “Walchand College of Engineering” in 1955, after a substantial financial support extended by Seth Walchand Hirachand Memorial Trust. The management and Control of the college was transferred to Administrative Council with all movable and immovable properties since 1956. The college now imparts education for AICTE recognized / approved diploma, degree, post graduate and Ph.D. courses in engineering.

The Autonomous Status has been awarded to the college by the Government of Maharashtra and UGC in the year 2007. UGC extended this Autonomy for second term in 2014 till 2020. We participated in the World Bank funded Government of India scheme, "TEQIP" (Technical Education Quality Improvement Program) Phase I project and we received second rank all over India, out of 127 national institutes, in its program impact assessment survey in 2010. WCE is successfully continued its journey in TEQIP phase II in upgrading the Post graduate and Research infrastructure. WCE has received Rs. 15.00 Crore. Now the Institute is selected for TEQIP Phase –III from April 2017-March 2020. In TEQIP-III Walchand College of Engineering, Sangli will Mentor Jabalpur College of Engineering, Jabalpur to upgrade their status. Out of 18 Engineering Colleges from Maharashtra who were involved in TEQIP-II only 8 are now selected for TEQIP-III.

College is equipped with more than 800 Computers, state of art software, 380 MBPS fully functional (24X7) internet connectivity, and intranet with fiber optic backbone. In 2008-09 Seth WHM Trust donated a New Library building named as Ajit Gulabchand Central (AGC) Library with more than 1,00,000 volumes, more than 2000 international e-Journals, plus Hard copy journals (national and international), etc.

### Brief History

**1947** – Established on **23<sup>rd</sup> June 1947** by Late Shri **Dhondumama Sathe** as: **New Engineering College, Sangli** One of the oldest engineering Colleges in the State of Maharashtra (90 Acres Land)

**1955** – Name changed to: **Walchand College of Engineering**

**1971** – **First** in Shivaji University Kolhapur (SUK) area to start **PG programs** and **Only Research Center** in engineering till 2004.

**1977** - Started receiving 90% **Grant in Aid from Government of Maharashtra**

**2003** - First College in SUK to get NBA Accreditation for 5 UG Programs

**2007** - Selected for **TEQIP** Phase –I. Institute became **Autonomous (1<sup>st</sup> college in SUK area)**.

**2012** – First College in SUK to get NBA Accreditation for 5 PG Programs. Selected for **TEQIP** Phase –II.

**2014** – UGC **Extended the Autonomy** till 2020

**2016** – NAAC Accreditation: ‘A’ Grade. Selected for TIFAC Funding from RGSTC.

**2017** - Selected for **TEQIP** Phase –III. Mentoring Jabalpur College of Engineering, Jabalpur.

## Chairman's Profile: Ajit Gulabchand



Ajit Gulabchand, Chairman and Managing Director of Hindustan Construction Company Ltd., has spearheaded the transformation of the company from a construction major into a diversified infrastructure group of global scale, developing and building responsible infrastructure through next practices. With a group turnover of over Rs. 9867 Cr (US \$ 1.47 billion), HCC's businesses span across Engineering & Construction, Real Estate, Infrastructure, Urban development & Management.

Mr. Gulabchand hails from a family of nation builders who have made a significant contribution to the development of modern India. A graduate of Mumbai University, Mr. Gulabchand previously served as Chief Executive Officer of Indian Hume Pipe Co. and as Managing Director of Ravalgaon Sugar Farm. He became Managing Director of HCC in 1983, and Chairman in

1994.

Under Mr. Gulabchand's leadership, HCC continues the illustrious tradition set by his predecessors. The group has a knowledge asset of more than 2500 officers, including around 1,600 engineers. It employs more than 22,000 workers at its project sites across India. The result is a business that plays a leading role in meeting the huge infrastructure needs of India, leveraging best-in-class equipment and technology, knowledge-driven processes and innovation-led next practices.

The HCC Group of companies comprise of HCC Ltd, HCC Infrastructure Ltd, Lavasa Corporation Ltd, Highbar Technologies and Steiner AG in Switzerland.

Mr. Gulabchand is the visionary behind the concept of the planned hill city, Lavasa. The master plan of the city, which is being built to the highest environmental standards, has won international awards for sustainable urbanism. Lavasa is seen as the blueprint for the many future cities India will need as it responds to massive rural-to-urban migration. The Indian states of Gujarat and Karnataka already have concrete plans to develop Lavasa-like cities.

### **SOCIAL AND ENVIRONMENTAL RESPONSIBILITY**

Corporate social responsibility is intrinsic to Mr. Gulabchand's vision for the HCC group. Its initiatives encompass Disaster Relief, Water Sustainability, Education and HIV/AIDS awareness.

Disaster Relief forms a significant area of focus at HCC, under the aegis of Mr. Gulabchand's sustainability canvas. He is the Chair of the Disaster Resource Partnership, formed in coordination between the World Economic Forum's Engineering and Construction Member and Partner companies. He is also the founder member and Chairman of Disaster Resource Network India, wherein he has steered emergency response teams and rehabilitation to a number of locations struck by natural disasters in India and abroad. He is a member of the Advisory Board United Nations Disaster Risk Reduction – Private Sector Partnership.

Recognizing the emerging water crisis and with a view to make water sustainability a corporate priority, Mr. Gulabchand became the first Asian signatory to endorse the United Nations' CEO Water Mandate. HCC has demonstrated its water consciousness and commitment to water conservation by implementing a series of rigorous and improved water management practices at its project sites. HCC has also promoted the advocacy of actions and measures at various national/international forums towards the optimum utilisation of water.

The HCC case study highlights its efforts towards water neutrality and showcases its initiatives at its projects. HCC was awarded “Global Sustainability Leadership Award for “Best Community Action’ – HCC’s Community Development Project – ‘Ujjivana’

## GLOBAL ENGAGEMENTS

Mr. Gulabchand holds leadership positions in several key industry bodies. He is a member of the Governor’s Steering Board of the Infrastructure and Urban Development Community at the World Economic Forum, Geneva and co-chaired the community in 2016. He is a former President of the International Federation of Asian and Western Pacific Contractors’ Associations (IFAWPCA) – a body that promotes international fellowship and cooperation in developing beneficial relationships between governments and contractors. He is the Chairman of the Governing Council of the Construction Skills Development Council of India and President of the Construction Federation of India. He is also member of UK India Business Council (UKIBC) Advisory Council - a body for companies seeking to explore the Indian market. Mr. Gulabchand has also been a frequent invitee to ministerial business delegations from the Government of India to various countries aimed at attracting foreign investments into the Indian infrastructure sector. He is also member of the National Council of the Confederation of Indian Industry and member of committees on Skills, Infrastructure & Construction and Ease of doing business.

Alongside his responsibilities at HCC, Mr. Gulabchand has been a vocal advocate of sustainable development and is regarded as a spokesperson for India’s infrastructure sector in global forums. A regular participant at the World Economic Forum (WEF) for over two decades, Mr. Gulabchand was the first Asian to Chair the Governor’s Steering Board of the Engineering & Construction Community at the WEF in Davos, 2011. He also served as a Co-Chair at the WEF’s India Economic Summit in 2010. He is the only Indian business leader to participate on panels at the United Nation’s Annual Summit on Climate Change, as well on the United Nation’s Global Compact Summit. He is an Executive Committee member of TERI’s (The Energy and Resources Institute) Council for Business Sustainability. He is also a member of Board of Trustees – New Cities Foundation: a non- profit institution which seeks to incubate, promote and scale urban innovations through collaborative partnerships between government, business, academia and civil society.

Mr. Gulabchand is a strong supporter and patron for several technical institutions in India. He is the Chairman of the Board of Trustees and Board of Governors of the National Institute of Construction Management and Research (NICMAR) and Chairman of the Administrative Council of the Walchand College of Engineering.

Mr. Gulabchand is a recipient of the ‘Infrastructure Leader of the Year’ Award from CNBC TV18

The institute is governed by Administrative Council which was reconstituted in 1956. The chairman of the Administrative Council who guided the progress of the institute with a vision to the path of glory:

Chairman, Administrative Council			
Sr. No.	Name	From	To
1	Shri N. Dandekar	1956	1965
2	Seth Lalchand Hirachand	1968	1974
3	Seth Bharat G. Doshi	1974	1975
4	Seth Lalchand Hirachand	1975	1981
5	Shri M.S. Parkhe	1981	1983
6	Seth Vinod L. Doshi	1984	1994
7	Justice Shri B. N. Deshmukh	1994	1996
8	Shri Ajit Gulabchand	1996	Onwards

## Directors Message:



Walchand College of Engineering, established in 1947, is one of the oldest engineering colleges in India. Since its inception, Walchand has never wavered from its path to triumph and making it large. It keeps producing world class engineers every year, who not only satisfy the technical needs that help develop the country but also fulfill the needs of the world by being up to date and environmentally caring.

The institute has recently restructured its laboratories, bringing in modern and advance Grade equipment for helping students become technically strong and accomplishing substantial milestones. Faculty, staff and students strive for the goals of making our institute deliver to the country, a brilliant and talented generation of engineers every year.

The institute has strong industry and institute association. We have developed many of our labs with the help of industrial sustenance. With this collaboration most of our labs are state-of-the-art with technologies used in the eminent industries. Our alumni have made the college proud with their success. Their achievements help the future generation of graduates by providing them with industrial knowledge and experience.

The faculty members of our institute are research oriented, thereby promoting our students to favor such paths too. R & D is right now the prime of any industry and we support our students to be involved in such activities. With a state-of-art Central Library with national/international journals and a massive number of reference books for every subject and specialized books on various topics, our students find it very easy to develop a research oriented mind-set. We encourage work on research projects helping them grow professionally and making them systematic and multidiscipline oriented.

In accordance with our Vision and Mission, we devote ourselves to create graduates with inquisitive minds who have a perpetual desire for knowledge. We believe in our students growing from all aspects. Our graduates should not only be technical aces but they should also be good human beings, hence we nourish our students to make them ethical, moral and virtuous so that they serve their purpose of helping this country and making it a better place to live. For this we support technical, cultural, social and sports activities. These help them become strong team players, to boost their confidence and to inculcate in them the qualities to achieve their goals and become world class leaders.

The Governance Policies of Administrative Council are Implemented at the Institute by Principals. Before Autonomy the Principals and after Autonomy Directors were responsible for the Progress of the Institute.

Principals at WCE Sangli Before Autonomy			
SN	Name	From	To
1	Prof. G.N. Gokhale	1947	1948

2	Prof. K.V. Kardile	1948	1949
3	Prof. C.G. Kale	1949	1951
4	Prof. G.R. Vartak	1951	1955
5	Prof. V.K. Kelkar	1955	1967
6	Prof. G.C. Kanitkar	1967	1975
7	Prof. S.D. Pathak	1975	1979
8	Prof. P.A. Kulkarni	1979	1997
9	Dr. B. Subbarao (I/c)	Jan-1998	Sep-1999
10	Dr. N.K. Sane (I/c)	Oct-1999	Jan-2000
11	Prof. A.R. Yardi (I/c)	Jan-2000	Jun-2000
12	Dr. P.J. Kulkarni	Jun-2000	Jan-2002
13	Prof. A.R. Yardi (I/c)	23-May-02	20-Dec-02
14	Dr. S.D. Madnaik	21-Dec-02	31-Jul-04
15	Prof. A.R. Yardi (I/c)	1-Aug-2004	31-Oct-2006

Directors at WCE Sangli After Autonomy			
SN	Name	From	To
1	Dr. N.V. Deshpande	01-Nov-2006	30-Sep-2007
2	Prof. A.R. Yardi (I/c)	01-Oct-2007	12-May-2009
3	Dr. Y.V. Joshi	13-May-2009	1-Jul-2013
4	Dr. P.J. Kulkarni (I/c)	02-Jul-2013	25-Feb-2014
5	Dr. G.V. Parishwad	26-Feb-2014	25-Feb-2019
6	Dr. P.G. Sonavane (I/c)	26-Feb-2019	Till Date



## Highlights of the Year 2018-19:

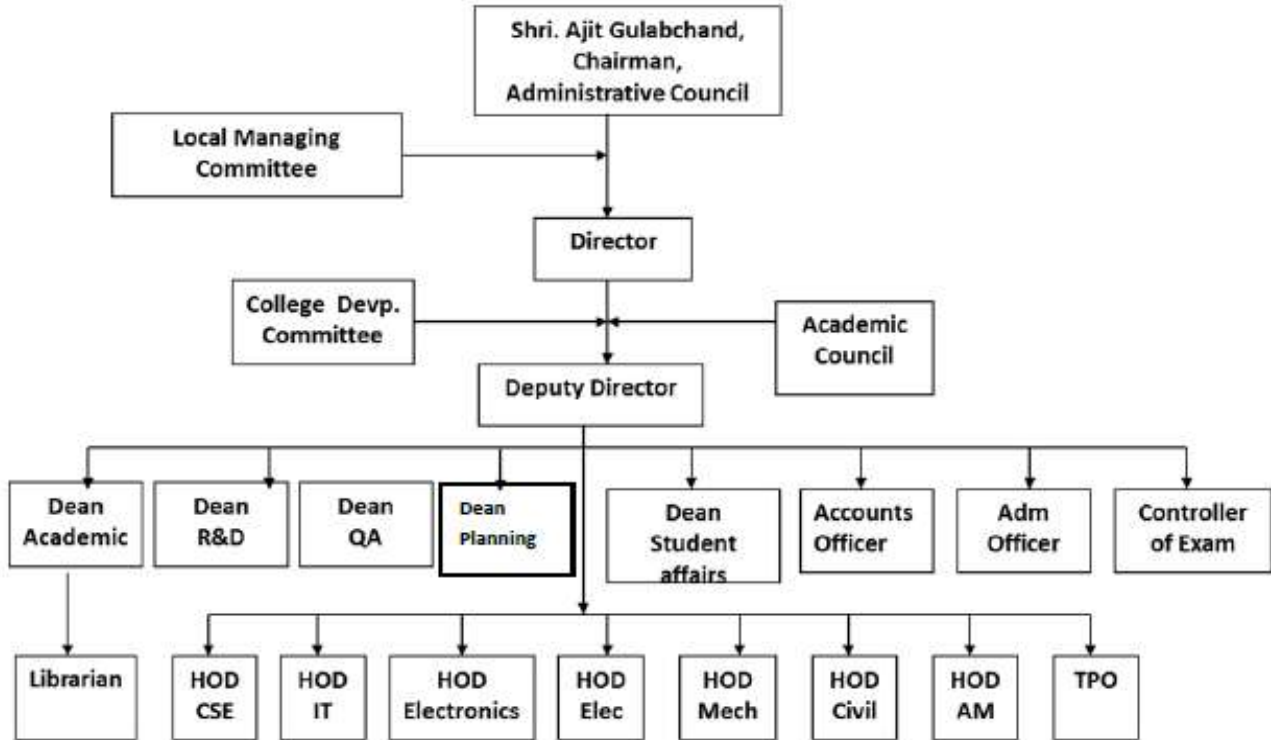
- **8<sup>th</sup> Alumni Meet** was organized at WCE Sangli on 13th January 2019. Shri. Ramkumar Rathi and Shri Abhijit Pawar were the Chief Guests. We signed revised MOU with Sakal (Abhijit Pawar). Senior Faculty Dr. S.G. Joshi, Dr. (Mrs.) Shaila Apte and Dr. R. N. Aranke along with 10 Alumni were felicitated for their achievements during this ceremony.
- Ajit Gulabchand Central Library of WCE received the **"Best Library of the Year Award-2019"** by ISTE Maharashtra and Goa Chapter on 5th January 2019 at A.P. Shah Institute of Technology, Thane at the hands of Dr. M.P. Punia, Vice Chairman of AICTE, Dr. Abhay Wagh, DTE, Maharashtra and Dr. Pratap Desai, President ISTE.
- **3<sup>rd</sup> National Conference on 'Recent Trades in Mechanical Engineering'** was organized by the Mechanical Engineering Department, during 21-22nd June 2018. Total 132 research papers were selected from 23 colleges for presentation.
- **AICTE** has selected WCE, Sangli for the prestigious **Margadarshan Scheme** of funding of Rs. 22 lakh to work as a Lead Institute in the region and guide nearby colleges for their development. Earlier COEP was selected for similar funding.
- **Dr. V.B. Dharmadhikari** selected for developing e-course on "Arduino Based System Design", by Dassault Systems at global level.
- The AICTE has rated our institute, **Walchand College of Engineering, as the Best in Maharashtra state** and among 30 in the country in following best practices among engineering institutes. The AICTE shortlisted 30 institutes out of 250 reputed engineering institutes across the country, of which 8 are from Maharashtra State.
- WCE Alumni: Dr. **Sadanand Joshi (Mechanical-1972)**, who is president of Joshi Technologies International Inc. (JTI) of Tulsa, Oklahoma, U.S.A. received the highest technical award **John Franklin Carll International Award** given by Society of Petroleum Engineers for his contribution to the development of Horizontal Well Technology, during its Annual Technical Conference and Exhibition (ATCE) held on Tuesday, 25th September 2018, in Dallas.
- WCE Boys' team was **winner of Shivaji University Zonal Badminton Championship** 2018 on 24th August 2018 at Raje Ramrao College, Jath.
- Nine-member team of T.Y. students from Civil, Mechanical, Electrical, Electronics and IT won the **MindSpark Technical Championship – 2018 at COE, Pune** during 28-30th September 2018 in the Annual National Level Technical event from the shortlisted 15 teams. Team received a Trophy and Rs 50,000/- award.
- **Sakshi Kendale** from (FY B. Tech. Mech) stood First in 1 m, 3 m, and Spring Board diving at Inter-zonal Diving Competition held at Kolhapur and got **selected for the National Team**; While Tej Kulkarni from TY B. Tech Civil stood second in Backstroke and 3rd in 100 m and 200m freestyle swimming at Inter-zonal swimming competition held at Ichalkaranji in October 2018.
- **MoUs were signed with 12 Engineering Colleges nearby** under **AICTE- Margadarshan Scheme** in the presence of Dr. Dileep Malkhede, Advisor, RIFD AICTE and Dr. Madhukar Waware, WCE faculty presently on deputation to AICTE as Deputy Director, e-Governance, AICTE on 1st October 2018.
- **Smart India Hackathon (SIH) 2019** was organized by Ministry of HRD, AICTE, and Persistent Systems for Innovative Project Competition. 36-hour long SIH-2019 is billed as world's largest Hackathon. Final round took place on 2-3rd March 2019 at different centers. Highlights:
  - **Five teams from WCE got selected for the final round.**
  - **Two WCE teams emerged winners:** One team from CSE dept. won First Prize at Coimbatore Nodal center in cryptography stream, and one team from IT dept. won First Prize in the web-security stream at Nagpur Nodal center.
  - **Two WCE teams were Runners Up:** one team at Guwahati Nodal center and one at Bangalore Nodal center won Second Prize.
  - **Maximum Participants: Total 45 teams (270 students)** from WCE had applied for this competition amongst more than 2 Lakh students from all over India; thereby, WCE won the prize for the Maximum number of participations at SIH 2019.

- WCE team of Shri Vikas Randive, and Shri Jaydeep Shinde of M. Tech.-Design students **won the first prize** of Rs. 50,000/- **Sankalp Award** for their 3D Printer at IMTEX-2019 organized at International Exhibition Center, Bangalore during 24-30th January 2019.
- WCE team got **All India 2nd Rank in Design and Development of a Go-Kart** competition organized by ISIE India, held at Buddha International circuit, Great Noida, Delhi during 4-10th February 2019. The team has also received two other awards, "Best Design Award" and "Team Spirit Award".
- TY-CSE students also won the **First Prize in National Level 24-hour "Global Blockchain Hackathon 2018"** organized by KJ Somaiya College of Engineering, Vidyavihar, Mumbai on 21-22nd of December 2018.
- In MSBTE Winter exams: 58 students from TY Diploma have scored more than 90%. Ms. Tarannum Panhali from TY, has secured 98%, which is **highest till now at MSBTE**; while Mr. Shubham Mali from SY, scored 97.13% from Electrical.
- "Smart India Hackathon 2019" held at Coimbatore Nodal center during 28th Feb- 4th Mar 2019. Team "Abhyudayaa" (Team leader: Kaivalya Mendki) **won the First Prize in cryptography stream** and also got encouragement award of prize money ₹75,000/-
- **Shubham Kharose** of B. Tech. Computer Science Engineering class bagged the **highest salary offer of Rs. 37 lakh from Linked In**. This is the highest offer to any engineering college in Maharashtra, except the IIT this year.
- **Dr. P.G .Sonavane**, I/C Director of WCE, Sangli received **Educational Excellence award** on 3rd July 2019 for Walchand College of Engineering, Sangli **from "SAKAL" Media Group**. The award received as Recognition from Society for Quality Education.
- E-BAJA Team of WCE secured **1<sup>st</sup> Rank at all India level** with a score of 162.5 out of 200 in Virtual round & qualified for next round. The M-BAJA Team crossed the second round with a score of 133 out of 200.

# 1. INSTITUTE, TEACHING, LEARNING & RESOURCES

## 1.1 Organizational Chart and Various Major Committees

Policies Approved by the Administrative Council are implemented by the Director and his team at the Institute level. The **Organizational Chart** of the Institute is given below:



The institute is governed by Administrative Council. The **Administrative Council** was formed in 1956.

- The Institute is governed by an autonomous body - **Administrative Council**.
- Constitution of **Administrative Council** (A.C.) is
  - Six members from Trust
    - Government Nominees as under
    - Two AICTE nominees
    - DTE, Mumbai
    - AICTE (RO), Western Region
    - SU, Kolhapur Nominee
    - GoM Nominee
    - Two Teaching Faculty
    - Director of the institute (Member Secretary)
  - Frequency of Meetings of AC : 4 times in a year

The names of present **Administrative Council** members are given below:

SN	Name of Member	Representing
1	Mr. Ajit Gulabchand, <b>CMD, HCC, Mumbai</b>	Chairman
2	Mr. Sanjaykaka Patil, MP, Sangli	Member, Trust Nominee
3	Mr. Vijay Pusalkar, Industrialist, Pune	Member, Trust Nominee
4	Dr. V.N. Gupchup, Ex. Principal, VJTI, Mumbai	Member, Trust Nominee
5	Mr. C.N. Gandhi, Industrialist, Pune	Member, Trust Nominee
6	Mr. R.P. Purohit, HCC, Mumbai	Member, Trust Nominee
7	Dr. Amit Dutta, WRO, AICTE, Mumbai	AICTE Ex-Officio, Member
8	Shri Shrirang Kelkar, Industrialist, Sangli	AICTE Nominee
9	Director Technical Education, Mumbai	DTE, Ex-Officio, Member
10	To be Nominated	State Govt Nominee
11	Dr. Shivajirao Kadam, VC, BVU, Pune	UGC Nominee
12	Dr. P.S. Patil, Physics Dept, SU, Kolhapur	Shivaji Uni. Nominee, Member
13	Dr. G.V. Parishwad, Director, WCE, Sangli	Member Secretary
14	Mrs. Shalaka Gulabchand Dhavan	Management Invitee
15	Dr. P.G. Sonavane, Dy. Director, WCE, Sangli	Faculty representative
16	Dr. A. P. Vaidya, Dean R & D, WCE, Sangli	Faculty representative

The next Important Committee is **Local Management Committee**: to support and guide the Institute locally. Six members of the committee are nominated by Administrative Council, while 3 members are elected from Faculty and one from support staff. The names of present Local Management Committee are given below:

Constitution by post	Function
<b>Chairman:</b> Shri. Shishir Shirgaonkar, CMD, Ugar Sugars Industries <b>Members:</b> Smt. Prabhatai Kulkarni, Industrialist Shri Ravindra Purohit, Management Representative. Shri Ashok Sawant, Entrepreneur	-To recommend to the higher authorities the <b>schemes for better functioning and governance</b> of the college -To prepare & recommend,

Shri Suresh Patil, Chairman, Latthe Edu. Society Shri Shriniwas Patil, President Alumni Association. <b>Elected faculty Members:</b> Dr. M.M. Waware, Associate Professor Shri K.V. Madhale, Assistant Professor Shri A.U. Paranjpe, Assistant Professor Shri S.S. Kulkarni, Non-teaching staff Dr. G.V. Parishwad, <b>Member Secretary</b>	<b>financial budget</b> of the college for approval from higher authorities - To recommend, <b>filling of teaching and non-teaching</b> positions to higher authorities - Frequency of meeting: <b>Twice a year</b>
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Local Management Committee (LMC) meetings are held twice a year.

**As per the New Maharashtra Public University Act-2016 The Local Management Committee will be now replaced with College Development Committee.**

#### **Various other important Sub-Committees to support Administrative Council are:**

In addition to the above two committee's various other Sub-committees are formed for decentralization of power and for smooth functioning of various activities and implementation of policies.

As per the Administrative Council Rules for WCE, Sangli passed by General body of MTES on 20th November 1956 and amended by AC on 9th July 1971 and on September 1977 three important other committees formed are Finance Committee, Building Committee and Equipment Committee were approved by the Administrative Council in the Meeting No. 217 Dated. 22 November 2016. The sub-committees are as follows:

<b>1. Finance Committee</b>	
1. Chairman of the Council	Shri Ajit Gulabchand
2. DTE or his nominee	Dr. S. K. Mahajan
3. RO- AICTE or his nominee	Shri R. Unnikrishnan
4. Nominee of MTES	Shri Deepak A. Shinde
5. Member	Shri R. P. Purohit
6. Member	Shri Chakor Gandhi
7. Member Secretary	Dr. G. V. Parishwad
8. Permanent Invitee	Dr. P. G. Sonavane
<b>2. Building Committee</b>	
1. Chairman of the Council	Shri Ajit Gulabchand
2. DTE or his nominee	Dr. S. K. Mahajan
3. RO- AICTE or his nominee	Shri R. Unnikrishnan
4. Exec. Engineer, PWD, Sangli	Shri Devendra Jadhav
5. Outside Expert Member	Dr. V. N. Gupchup
6. Head, Civil Dept	Shri V. D. Salkar
7. Head, Structural Dept.	Dr. S. N. Tande
8. Member Secretary	Dr. G. V. Parishwad
9. Permanent Invitee	Dr. P. G. Sonavane / Dr. K. S. Wagh



<b>3. Equipment Committee</b>	
1. Chairman of the Council	Shri Ajit Gulabchand
2. DTE or his nominee	Dr. S. K. Mahajan
3. RO- AICTE or his nominee	Shri R. Unnikrishnan
4. HOD of concerned Dept.	Civil/Mech/Elec/Eln/CSE/IT
5. Member	Shri R. P. Purohit
6. Member Secretary	Dr. G. V. Parishwad
7. Permanent Invitee	Dr. P. G. Sonavane
<b>4. HR Development Committee</b>	
1. Chairman of the Council	Shri Ajit Gulabchand
2. DTE or his nominee	Dr. S. K. Mahajan
3. RO- AICTE or his nominee	Shri R. Unnikrishnan
4. HR Expert	To be decided
5. Member	Shri R. P. Purohit
6. Member Secretary	Dr. G. V. Parishwad
7. Permanent Invitee	Dr. P. G. Sonavane

### Key Functionaries at the Institute level:

Prof. Dr. P.G. Sonvanve	I/c Director
Dr. G.R. Munawalli	I/c Dean-Academics
Dr. K.S. Gumaste	I/c Dean-Quality Assurance
Prof. Dr. A.P. Vaidya	Dean-Research & Development
Dr. V.D. Salkar	I/c Dean-Planning
Dr. B.G. Patil	I/c Dean-Students Welfare
Mr. S.B. Dhaigude	TPO & I/c Dean-Industry & Alumni Interactions
Prof. Dr. V.D. Salkar	HOD-Civil Engineering
Prof. Dr. U.A. Dabade	HOD-Mechanical Engineering
Dr. D.S. More	I/c HOD-Electrical Engineering
Dr. B.G. Patil	I/c HOD-Electronics Engineering
Dr. B.F. Momin	I/c HOD-Computer Science Engineering
Dr. Mrs. S.P Sonavane	I/c HOD-Information Technology
Prof. Dr. S.N. Tande	HOD-Applied Mechanics
Shri K.V. Madhale	I/c HOD-Science & Humanities
Prof. Dr. D.B. Kulkarni	I/c Registrar
Mr. D.B. Hankare	I/c Librarian

Shri M.K. Chavan	Controller of Examinations
Dr. S.B. Kadam	Chief Rector
Mr. S.B. Tamhankar	OSD-Legal
Mr. R.G. Bhosale	I/c Vice Principal Polytechnic Wing

### Organization and Governance:

- Budget gets approved in AC meeting held in February
- Yearly Financial audit and statements of accounts are approved in the AC meeting of May every year
- Graduation Ceremony function is organized every year in May. First held in May 2011
- Approval for the proposal of Purchase of high end equipment, major construction activity, appointment of faculty, etc. is sought in AC meeting
- College Managing Committee (CMC) acts as bridge between management and institute.

### Other Institute Level Committees:

Institute Related Committees	Direct Student Related Committees
<ul style="list-style-type: none"> <li>▪ Academic Committees: <ul style="list-style-type: none"> <li>- Academic Council</li> <li>- Academic Standing Committee</li> <li>- Board of examinations</li> </ul> </li> <li>▪ Purchase Committee</li> <li>▪ Building and Works Committee</li> <li>▪ Library Committee</li> <li>▪ Campus Maintenance Committee</li> <li>▪ Admission</li> <li>▪ TEQIP Implementation Unit</li> <li>▪ Internal Quality Assurance Cell (IQAC)</li> </ul>	<ul style="list-style-type: none"> <li>- Gymkhana</li> <li>- Hostel</li> <li>- Canteen</li> <li>- Training and Placement</li> <li>- Discipline</li> <li>- Grievance</li> <li>- Anti-Ragging</li> </ul>

### Academic Council (Apex Academic Body)

Constitution	Function
<p><b>Chairman:</b> Director</p> <p><b>Member Secretary:</b> Dean Academics</p> <p><b>Members:</b></p> <ul style="list-style-type: none"> <li>• All HoDs</li> <li>• All Professors</li> <li>• Four Associate Professors</li> <li>• One expert each from industry, education, Law</li> <li>• Nominees of SUK</li> </ul>	<ul style="list-style-type: none"> <li>• Scrutinize and approve BoS proposals.</li> <li>• Prepare and approve academic RRs.</li> <li>• Proposals for new programs and academic activities</li> </ul>

## 1.2 Academic Programs and Admissions (Diversity) Details of AY 2018-19

### Intake of Diploma Programs

Sr. No.	Program	Starting Year & Current Intake	
		Diploma	
1	Civil Engineering	1955	40
2	Electrical Engineering	1955	60
3	Mechanical Engineering	1955	60
4	Industrial Electronics	1970	40
<b>Total First Year-Intake*</b>			<b>200</b>

\* 20% Lateral Entry at Second Year

### Intake and Status of NBA Accreditation: UG Programs

Sr. No.	UG Programs	Starting Year	Intake	NBA-I	NBA-II	NBA-III	NBA-IV
1	Civil Engineering	1947	60	2003-08 (5)	2016-21 (6)	--	--
2	Mechanical Engineering	1955	60	2003-06 (3)	2007-12 (5)	2016-18 (2)	--
3	Electrical Engineering	1955	60	2003-06 (3)	2007-12 (5)	2016-18 (2)	--
4	Electronics Engineering	1986	60	2003-06 (3)	2007-12 (5)	2016-18 (2)	--
5	Computer Science Engineering	1986 2000	60 90	2003-06 (3)	2007-10 (3)	2013-15 (2)	Applied
6	Information Technology	2001	60	2016-18 (2)	--	--	--
<b>Total First Year Intake</b>			<b>390 + TFWS 20 + NRI 39 + Gulf 19 (= 468) + DSY 78</b>				

\* 20% Lateral Entry at Second Year

### Intake and Status of NBA Accreditation: PG Programs

Sr. No.	PG Programs	Start Year	Current Intake	NBA-I	NBA-II
1	Civil-Environment Engineering	1971	18	2013-16 (3)	Applied
2	Civil-Structural Engineering	1971	30	2012-15 (3)	2016-21 (5)
3	Mechanical-Production Engineering	1995	30	2013-16 (3)	Applied
4	Mechanical -Design Engineering	1971	30	2012-15 (3)	2016-18 (2)
5	Mechanical -Heat Power Engineering	1971	18	Applied	
6	Electrical-Control Systems	1971	18	2012-15 (3)	2016-18 (2)
7	Electrical-Power Systems	1971	18	Applied	
8	Electronics Engineering	1987	30	2012-15 (3)	2016-18 (2)
9	CSE-Computer Science Engineering	1998	30	**	
10	CSE-Information Technology	2012	18	2016-21 (5)	
<b>Total First Year Intake</b>			<b>240</b>		

\*\* Yet to be accredited

**PhD Programmes:**

- Recognized Research Center of Shivaji University, Kolhapur (SUK) in all the disciplines of Engineering since 1971.
- Produced **26 Ph.D. s** in last five years; Currently **69** registered with SUK
- Also Recognized QIP **Minor Research Centre** of Central government with two Ph.D. seats for each branch (except IT) from 2012 (Total 10). Currently **07** registered for Ph.D. under QIP scheme in different departments.

**Admissions Details of AY 2018-19:**

Admissions to the four-year B.Tech. for the academic year 2018-19 were made along with the other autonomous institutions in the state based on IIT-JEE. Admissions to two-year M.Tech. Programs were based on the GATE and CET score followed by personal interview. Department wise and category wise admission details are as under:

**First Year B.Tech. Admission Maharashtra State Rank and Minimum Cut-off marks at WCE of AY 2018-19:**

SN	Branch	Mechanical	Electrical	Civil	IT	ELECTRONICS	CSE
1	COE Pune	372 (171)	450 (169)	1248 (159)	--	376(170)	119(179)
2	VJTI Mumbai	444(169)	791(164)	1631(155)	226(175)	855(163)	82(181)
3	SP Mumbai	868(163)	1221(159)	2573(147)	--	--	--
4	WCE Sangli	1721 (154)	2838(146)	3710(141)	2358(149)	3493 (142)	1578(155)
5	GCOE Aurangabad	4011(139)	5828(130)	5654(131)	5580(131)	6931(126)	2762(146)
6	GCOE Karad	4083(138)	6347(128)	6100(129)	6743(127)	8187(122)	--
7	GCOE Amaravati	5769(131)	8278(121)	9247(118)	7723(123)	9957(116)	3615(141)
8	SGGS Nanded	6159(129)	8019(122)	8251(121)	7223(125)	10969(114)	4723(135)

\* If we refer Cut-off Marks at top 8 Engineering Institutes in Maharashtra, WCE Sangli Ranked 4<sup>th</sup> after COE Pune, VJTI and SP, Mumbai in 2018-19.

**PG Admissions at WCE, Sangli for 2018-19**

SN	Branch	Intake	Filled
1	Civil-Environmental	18	18
2	Civil-Structural	30	30
3	Mechanical-Design	30	30
4	Mechanical-Heat Power	18	18
5	Mechanical-Production	30	25
6	Electrical-Power Systems	18	18
7	Electrical-Control Systems	18	14
8	Electronics	30	28
9	Computer Science Engg	30	30
10	Information Technology	18	03
	<b>Total</b>	<b>240</b>	<b>215</b>

### First Year UG & PG Admission Details:

All admission seats got filled with very high cut-off marks as shown in the following tables, with overall 28.50% girls at UG level at PG is 22.50%

Admission Details of UG 2018-19			
Branch	Male	Female	Total
Civil	47	22	69
Mechanical	50	16	66
Electrical	48	15	63
Electronics	41	22	63
CSE	72	31	103
IT	48	16	64
<b>Total</b>	<b>306</b>	<b>122</b>	<b>428</b>
<b>Percentage</b>	<b>71.50</b>	<b>28.50</b>	<b>100</b>

Admission Details of PG 2018-19			
Branch-Specialization	Male	Female	Total
Civil-Environmental	13	5	18
Civil-Structural	26	4	30
Mechanical-Heat Power	17	2	18
Mechanical-Production	23	2	25
Mechanical-Design	26	4	30
Electrical-Power System	10	8	18
Electrical-Control System	3	11	14
Electronics	9	19	28
CSE	12	18	30
CSE - IT	1	2	3
<b>Total</b>	<b>140</b>	<b>75</b>	<b>215</b>
<b>Percentage</b>	<b>65.11</b>	<b>34.89</b>	<b>100</b>

### Analysis of First year UG Students (Gender and Category-wise)

Admission Category	SC		ST		OBC		Other		Branch Wise Total		Total
	M	F	M	F	M	F	M	F	M	F	
Branch											
CIVIL	5	2	4	0	10	4	28	16	47	22	69
MECH	6	2	4	0	10	3	30	11	50	16	66
ELECT	6	2	3	1	13	2	26	10	48	15	63
ELN	7	3	1	0	6	5	27	14	41	22	63
CSE	8	4	5	2	19	5	40	20	72	31	103



IT	5	3	3	0	10	4	30	9	48	16	64
Institute Level Total	37	16	20	3	68	23	181	80	306	122	428
	53		23		91		261		428		

#### Analysis of First year PG Students (Gender and Category-wise)

Admission Category	SC		ST		OBC		Other		Branch Wise Total		Total
Branch	M	F	M	F	M	F	M	F	M	F	
CIVIL (ENV)	1	2	0	0	2	2	10	1	13	5	18
CIVIL (STR)	2	2	1	0	4	1	19	1	26	4	30
MECH (HP)	3	0	0	0	2	1	12	1	17	2	19
MECH (PR)	2	0	0	0	5	1	16	1	23	2	25
MECH (DSG)	5	0	0	0	8	2	13	2	26	4	30
ELECT ( PS)	2	2	0	0	1	5	7	1	10	8	18
ELECT ( CS)	0	2	0	0	1	2	2	7	3	11	14
ELN	0	2	0	0	1	6	8	11	9	19	28
CSE	2	5	1	0	3	3	6	10	12	18	30
CSE ( IT )	0	0	0	0	0	0	1	2	1	2	3
Institute Level Total	17	15	2	0	27	23	94	37	140	75	215
	32		2		50		131		215		

## Organization and Governance

### Academic Practices

- Department level academic
  - Academic policies by respective Board of Studies, (BOS)
  - Academic monitoring by Department Advisory Board, (DAB), HoD/ program coordinator, Department Academic Coordinator, (DAC), class coordinator, course teacher under the guidance of Dean Academics
  - Course assessment/evaluation by respective faculty coordinated by Department Examination Coordinator, (DEC) under the guidance of HoD/Dean Academics/CoE
- Conduct of MSE and ESE, result processing, result analysis by Examination cell under the guidance of Controller of Examination, (CoE).
- Internal and external Academic quality audits coordinated by Dean QA and IQAC cell
  - E-course book
  - Question paper audit
  - Course delivery
- Biometric attendance system for faculty, staff and students
- Close monitoring of academic activities as per Academic Calendar
- Various Deans with HoDs to ensure overall progress of the programs and development of the institute.

### Recruitment Procedure and its effectiveness

- Recruitment rules of faculty and staff are strictly as per the GoM, DTE norms
- Every year the advertisements for faculty on regular basis are published in national/regional

newspapers.

- A committee with University and DTE nominees and Experts from other reputed Institutes select faculty.
- Vacant faculty positions are filled on contract basis. (Twice in a year).
- RTI Disclosures

### 1.3 Faculty (Regular & Contractual) Staff Strength for UG in 2018-19:

	Sanctioned	Regular	Ad-hoc	Total
<b>Degree Faculty</b>				
<b>Professor</b>	14	9	4	13
<b>Associate Prof.</b>	27	25	4	29
<b>Assistant Prof.</b>	68	36	50	98
<b>Total Faculty</b>	<b>109</b>	<b>70</b>	<b>58</b>	<b>128</b>
<b>Non-Teaching Staff</b>				
<b>Technical</b>	65	42	12	54
<b>Class IV</b>	91	45	23	68
<b>Administrative</b>	46	27	17	44
<b>Total Staff</b>	<b>202</b>	<b>114</b>	<b>52</b>	<b>166</b>

**Faculty Diversity:** 70-75% from WCE, 25 – 30% from other colleges in Maharashtra or other states  
**Visiting faculty:** 5 to 10%

#### Regular Degree Faculties as on June 2019:

<b>Faculty Summary</b>					
Academic Year	Number of Regular Faculty Only				
	Male		Female		Total
	With PhD as Highest Degree	With M. Tech. as Highest Degree	With PhD as Highest Degree	With M. Tech. as Highest Degree	
<b>2018-19</b>	25	34	5	6	70
<b>2017-18</b>	27	35	4	6	72
<b>2016-17</b>	27	42	4	7	80
<b>2015-16</b>	26	43	5	7	81

S N	Full Name of Faculty	Designation	Highest Degree	Year of Comple tion	Teaching Experience		Industry/ Research Experience		Total Experience		Age
					Year	Month	Year	Month	Year	Month	
Civil Engineering Department											
1	Sonavane Pratap Ganpati	Prof.	PhD	2008	27	7	2	0	29	7	52
2	Salkar Vitthal Dnyandev	Asso.	PhD	2015	32	3	2	0	34	3	56
3	Munavalli G R	Asso.	PhD	2003	27	7	0	0	27	7	54
4	Gumaste Krishnakedar S	Asso.	PhD	2005	25	8	6	0	31	8	53
5	Wagh Chandrakant H.	Asso.	M.Tech.	2015	20	3	0	0	20	3	49
6	Kokane Anant K	Asst.	M.Tech.	2008	8	3	4	0	12	3	37
7	Mali Amol Kamalakar	Asst.	M.Tech.	2007	9	8	2	0	11	8	38
8	Deshpande Pusushottam K	Asst.	M.Sc.	1986	17	3	0	0	17	3	55
Average					21	5	2	1	23	6	49

Applied Mechanics Engineering Department											
9	Tande Shrirang Nivrutti	Prof.	PhD	2005	26	3	0	0	26	3	55
10	Kadam Sachin Balasaheb	Asst.	PhD	2015	11	3	0	0	11	3	44
11	Pol Chandrakant Balakrishna	Asst.	PhD	2017	14	3	0	0	14	3	41
Average					17	3	0	0	17	3	46
Mechanical Engineering Department											
12	Parishwad Gajanan V	Prof.	PhD	1999	30	7	4	3	33	10	60
13	Gawali Bajirao S	Prof.	PhD	2005	26	3	0	0	25	3	52
14	Dabade Uday Anna	Prof.	PhD	2008	21	9	2	6	23	3	47
15	Inamdar Kedar Harihar	Asso.	PhD	2007	18	3	2	0	19	3	46
16	Sapkal Sagar Ulhas	Asso.	PhD	2013	16	3	0	0	15	3	40
17	Dabir Jamil M	Asst.	M.Tech.	2015	13	1	8	2	30	3	56
18	Gaikwad Sharad Vasantrao	Asst.	M.Tech.	2011	13	11	9	8	22	7	48
19	Naik Babaso N	Asst.	M.Tech.	2012	14	3	0	0	13	3	39
20	Khot Maruti M	Asst.	PhD	2015	12	0	1	1	12	1	41
21	Paranjpe Amar Uday	Asst.	M.Tech.	2005	10	1	3	6	12	7	38
22	Jagtap Suhas Dhondiram	Asst.	M.Tech.	2010	6	8	5	5	11	1	37
23	Mane Pravin Ashok	Asst.	M.Tech.	2008	8	8	1	10	9	6	37
24	Patil Ajeet Pandurang	Asst.	M.Tech.	2008	8	8	1	0	8	8	36
25	Swami Virbhadra B	Asst.	M.Tech.	2009	9	8	0	0	8	8	36
26	Admuthe Abhinandan B	Asst.	M.Tech.	2009	8	8	0	0	7	8	35
27	Chanmanwar Rahul Mohan	Asst.	M.Tech.	2012	5	2	0	0	4	2	31
Average					14	3	3	4	16	3	41
Electrical Engineering Department											
28	Vaidya Anil Pralhad	Prof.	PhD	2005	32	3	1	6	33	9	58
29	More Dagdu Shankar	Asso.	PhD	2010	28	3	4	2	32	5	53
30	Patel NitinKumar Vithalbhai	Asso.	M.Tech.	2001	22	11	0	0	22	11	45
31	Patil Ajay Babagounda	Asso.	M.Tech.	1999	23	3	0	0	23	3	49
32	Waware Madhukar Maruti	Asst.	PhD	2012	17	2	0	0	17	2	43
33	Hasabe Ramchandra P	Asst.	PhD	2017	15	3	1	0	15	3	42
34	Ms. Shaikh Saba Latif	Asst.	M.Tech.	1999	14	3	8	0	22	3	47
35	Ms. Diwan Seema Pradeep	Asst.	M.Tech.	2009	10	3	2	0	14	3	42
36	Mohale Vijay P	Asst.	M.Tech.	2013	5	1	0	0	5	9	30
37	Karvekar Sushil S	Asst.	M.Tech.	2013	5	1	0	0	5	1	31
Average					19	3	1	8	20	11	44
Electronics Engineering Department											
38	Ms. Deshpande Shradha S	Prof.	PhD	2011	32	0	0	0	31	0	56
39	Kore Sunil Nilkanth	Asso.	PhD	2017	29	3	3	0	32	3	60
40	Dharmadhikari Vidyadhar B	Asso.	PhD	2015	29	3	3	0	32	3	54
41	Patil Babasaheb Gopal	Asso.	PhD	2015	27	3	3	0	30	3	53
42	Dhaigude Sanjay Bhagwan	Asso.	M.Tech.	2001	25	3	0	0	25	3	51
43	Marathe Narayan Vasudeo	Asso.	M.Tech.	2000	24	3	1	0	25	3	48
44	Tamhankar Sunil Gopal	Asso.	M.Tech.	2000	18	5	2	0	20	5	48
45	Ms. Agashe Amrita Anil	Asso.	PhD	2009	18	3	6	0	24	3	46
46	Ms. Savgave Prerna Nitin	Asso.	B.E.	1990	22	3	0	0	22	3	55
47	Ruikar Sachin D	Asso.	PhD	2013	16	3	2	0	18	3	42
48	Parchandekar Sanjaykumar	Asst.	M.Tech.	2011	24	3	0	0	24	3	47
49	Mevekari Rajan Gulab	Asst.	M.Tech.	2009	9	3	0	0	9	3	50
50	Gaikwad Vishal R	Asst.	M.Tech.	2010	10	3	4	0	14	3	41
Average					22	11	2	0	24	11	49
Computer Science and Engineering Department											
51	Momin Bashirahamad F	Asso.	PhD	2008	25	3	4	6	29	9	52
52	Surve Anil Ramchandra	Asst.	M.Tech.	2007	21	3	0	0	21	3	50

53	Ms. Shah Medha Abhijeet	Asst.	M.Tech.	2008	20	3	2	0	22	3	43
54	Chavan Manik Kishan	Asst.	M.Tech.	2011	14	3	0	0	16	6	43
55	Gavankar Nitin L	Asst.	M.Tech.	2011	15	3	0	0	15	3	40
<b>Average</b>					<b>17</b>	<b>9</b>	<b>3</b>	<b>8</b>	<b>24</b>	<b>5</b>	<b>46</b>
<b>Information Technology Department</b>											
56	Kulkarni D B	Prof.	PhD	2005	29	1	0	0	29	1	51
57	Ms. Sonavane Shefali Pratap	Asso.	PhD	2010	18	6	1	6	20	0	48
58	Chavan Umesh B	Asst.	M.Tech.	2004	8	9	18	0	26	9	49
59	Kharat Prashant Krishnarao	Asst.	M.Tech.	2007	15	3	0	0	15	3	40
60	Narnaware Manish B	Asst.	M.Tech.	2010	8	0	1	9	9	9	41
61	Rathod Ravindra Ramkishan	Asst.	M.Tech.	2011	14	4	0	0	14	4	40
62	Ms. Shirodkar Bharati D.	Asst.	M.Tech.	2008	15	3	0	0	15	3	45
63	Umbarkar Anantkumar J.	Asst.	PhD	2002	17	3	0	0	17	3	41
<b>Average</b>					<b>16</b>	<b>10</b>	<b>2</b>	<b>8</b>	<b>18</b>	<b>6</b>	<b>43</b>
<b>Physics Department</b>											
64	Madhale Kiran V	Asso.	PhD	2010	23	3	0	0	23	3	48
65	Jamadar Bashir N	Asst.	M.Sc.	2002	5	3	0	0	5	3	40
<b>Chemistry Department</b>											
66	Pendse Milind Hari	Asso.	PhD	1993	27	3	3	0	30	3	54
67	Powar Anil Anandrao	Asso.	M.Sc.	1995	23	1	0	0	23	1	45
<b>Average</b>					<b>19</b>	<b>2</b>	<b>1</b>	<b>6</b>	<b>19</b>	<b>8</b>	<b>46</b>
<b>Mathematics Department</b>											
68	Joshi Santosh B	Asso.	PhD	1996	26	3	0	0	26	3	53
69	Ms. Girgaonkar Vasudha	Asst.	M.Sc.	1997	13	3	0	0	13	3	44
70	Ms. Khot Renuka M	Asst.	M.Sc.	2012	5	1	0	0	5	1	28
<b>Average</b>					<b>14</b>	<b>10</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>2</b>	<b>41</b>

#### Details of Contractual Faculty 2018-19:

Full Name of Faculty	Designation	Highest Deg.	Highest Degree Year	Teaching Experience		Experience in Industry/Research Organization		Total Experience	
				Year	Month	Year	Month	Year	Month
Electronics Engineering									
Mrs Subaraman Shaila S	Asso. Prof.	PhD	2000	29	0	14	0	43	0
Dr. Mrs. M. M. Patil	Prof.	PhD	2013	13	3	2	0	18	0
Gaikwad Vishal R	Asstt. Prof.	M.Tech.	2010	9	0	4	0	13	0
Mrs Khare Meghana Rahul	Asstt. Prof.	M.Tech.	2010	9	0	0	0	9	0
Ms Patil Shweta Uday	Asstt. Prof.	M.Tech.	2012	7	0	0	0	7	0
Khedkar Sagar Rama	Asstt. Prof.	M.Tech.	2013	5	0	0	0	5	0
Mane Yashwant Bapurao	Asstt. Prof.	M.Tech.	1991	14	0	18	0	32	0
Information Technology									
M B Shinde	Asstt. Prof.	M.Tech.	2014	6	6	0	0	6	6
M G Rathi	Asstt. Prof.	M. Tech.	2015	3	6	0	0	3	6
Y R Sharma	Asst. Prof.	M. Tech.	2015	3	5	0	0	3	5
A M Khot	Asst. Prof.	M. Tech.	2016	2	5	0	0	2	5
A A Urunkar	Asst. Prof.	ME	2017	4	6	0	0	4	6
Dr. S.V. Kulkarni	Professor	Ph.D	1999	21	8	15	0	36	8
Computer Science & Engg.									
Dr. Kulkarni Prakash J.	Professor	PhD	1993	37	3	5	0	42	3

Dr. S.V Kulkarni	Professor	Ph.D	1999	21	8	15	0	36	8
S. M. Rathod	Asst. Prof.	M.Tech	2014	4	5	0	0	4	5
S. L. Mahadeshwar	Asst. Prof.	M.Tech	2014	3	9	0	0	3	9
K. P. Kamble	Asst. Prof.	M.Tech	2016	3	5	0	0	2	5
S.S. Sontakke	Asst. Prof.	M.Tech	2016	3	5	0	0	2	5
Ms. A.V. Terkhedkar	Asst. Prof.	M.Tech	2016	4	5	0	0	3	5
Mrs. S.S. Solapure	Asst. Prof.	M.Tech	2010	11	6	10	0	20	6
Mrs. H.V. Gandhi	Asst. Prof.	M.Tech	2013	8	1	0	0	7	1
Shri. V.N. Honmane	Asst. Prof.	M.Tech	2013	4	6	0	0	3	6
Mrs. N.L. Mudegol	Asst. Prof.	M.Tech	2014	5	5	0	0	4	5
Mrs. A. M. Chougule	Asst. Prof.	M.Tech	2012	12	8	1	1	12	9
Ms. P.D. Mundada	Asst. Prof.	M.Tech	2017	2	0	0	0	1	0
Ms. A.S. Pawar	Asst. Prof.	M.Tech	2015	2	0	0	0	1	0
Mr.N.K.Pikle	Asst. Prof.	M.Tech	2019	0	11	3	0	3	11
<b>Mechanical Engg.</b>									
Joshi Madhav Sadashiv	Asso. Prof.	M.Tech.	1979	35	0	0	0	35	0
Dr. Sane Narayan K	Prof.	Ph.D	1985	53	0	0	0	53	0
Limaye S H	Asst. Prof.	M.Tech	1990	5	3	28	0	33	3
Kulkarni Ramchandra Keshavrav	Prof.	Ph.D	2011	26	10	7	0	33	10
Gadade Appaso M.	Asso. Prof.	Ph.D	2016	15	0	1	0	16	0
Ranade Sanjay Madhukar	Asst. Prof.	M. Tech	1988	23	4	7	0	30	4
Dhende Vishal Vishwas	Asst. Prof.	M. Tech	2012	6	10	0	0	6	10
Arali Sudhir Manohar	Asst. Prof.	M.E.	2013	13	0	8	0	21	0
Chougale Prasanna Babaso	Asst. Prof.	M. Tech	2016	3	3	0	0	3	3
Shevade Bipin Ravindra	Asst. Prof.	M. Tech	1989	12	3	25	0	37	3
Maskar Prabhakar Dadaso	Asst. Prof.	M. Tech	2007	9	0	3	0	12	0
Bhandare Amar Shrikant	Asst. Prof.	M. Tech	2008	10	6	1	2	11	8
Sutar Vikram Patangrao	Asst. Prof.	M. Tech	2016	3	3	0	0	3	3
<b>Civil Engg.</b>									
Bapat Sharad Shridhar	Asso. Prof.	M. Tech	1982	31	3	5	0	36	0
Ali Mohammed S.	Asst. Prof.	M.Sc.	2005	8	0	3	0	11	0
Desai Ravindra Shashikant	Asso. Prof.	M.E.	2010	10	0	0	0	10	0
Mr.Magdum Anmol Arun	Asst. Prof.	M.Tech	2017	01	0	0	0	01	0
Mr. Kavathekar Bhushan Rajendra	Asst. Prof.	M.Tech	2017	01	0	01	0	02	0
Patil Vishvas Shamrao	Asso. Prof.	Ph.D	2018	22	2	3	0	25	2
Sohoni Prachi Kaustubh	Asstt. Prof.	Ph.D	2019	7	11	2	2	12	1
Patane Atul Siddheshwar	Asst. Prof.	M.Tech	2015	3	6	1	6	5	0
Sawant Balaji Balasaheb	Asst. Prof.	M.Tech	2013	6	5	0	0	6	5
I.S. Mijawar	Asst. Prof.	M.Tech	2017	01	0	0	0	01	0
<b>Electrical Engg.</b>									
D R Patil	Prof.	Phd	2012	41	0	0	0	41	0
Devne Shubhendu Ramesh	Asst. Prof.	M.Tech	2015	3	5	0	0	3	5
Koushik Arun Mhaskar	Asst. Prof.	M.Tech	2002	5	0	12	0	17	0
Mrs. A Dhamangaokar	Asst. Prof.	M.E.	2016	3	0	4	6	7	6
Mrs. Karvekar Aditi Sushil	Asst. Prof.	M.Tech	2014	3	0	0	0	3	0
R G Datar	Asst. Prof.	M.Tech	2017	3	0	0	0	3	0
P V Paranjpe	Asst. Prof.	M.Tech	2017	2	0	0	0	2	0
<b>Mathematics Department</b>									
Ms. Yadav Pradnyavati P.	Asst. Prof.	M.Sc.	2014	5	1	0	0	5	1
<b>English Department</b>									
Mrs. Kulkarni Anushri A	Asst. Prof.	M.A.	1993	5	1	10	0	15	1



**List of Non-Teaching Staff as on June 2019:**

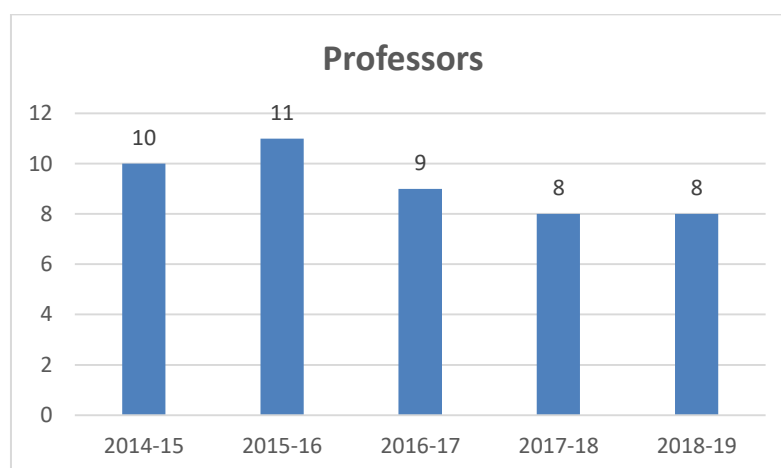
SN	Name of Non-Teaching Staff	Staff Position	Highest Qualification	Date of Joining (Continuous)
1	Mr. Patil V.V.	Accounts Officer	B.Sc.	08.06.2017
2	Mr. Hankare D.B.	Senior Clerk	BA,Blib, Mlib	15.12.1990
3	Mr. Kulkarni P.G.	Senior Clerk	BCom, MA, DCM	15.12.1990
4	Mrs. Pujari S. S.	Senior Clerk	BCom	15.12.1990
5	Mr. Mane A. J.	Senior Clerk	BCom	15.12.1990
6	Mrs. Gaikwad V. T.	Senior Clerk	BCom	01.01.1991
7	Mr. Kolpe R. P.	Senior Clerk	SSC, ITI	01.12.1990
8	Mr. Mane S. P.	Senior Clerk	HSC	04.11.1997
9	Mr. Dandekar M. L.	Junior Clerk	BCom	16.08.1995
10	Mr. Kolap D. G.	Junior Clerk	BCom	01.12.1990
11	Mrs. Sakhdeo H. G.	Junior Clerk	BA	13.07.1998
12	Mr. Honkalas Y. D.	Junior Clerk	SSC, ITI	01.12.1990
13	Mr. Honkalas D. D.	Junior Clerk	HSC, ITI	08.09.1995
14	Mr. Ramtirthkar D.B.	Junior Clerk	MCom	30.12.2004
15	Mr. Sakhare V.M.	Junior Clerk	SSC	01.03.2007
16	Mr. Satpute V.R.	Junior Clerk	BA	29.06.2000
17	Mr. Deshpande S.D.	Junior Clerk	BSc	10.06.2002
18	Mr. Sutar Mayur S.	Junior Clerk	HSC	27.07.2010
19	Mr. Jadhav S.M.	Junior Clerk	BCom	16.08.2010
20	Smt. Shitole J. S	Junior Clerk	BCom	03.06.2004
21	Mr. Soyane H.L.	Junior Clerk	MA.ECO	20.12.2016
22	Mr. Mohite R. J.	Store Keeper	BSc	08.05.1998
23	Mr. Takaliker G. M.	Store Clerk	HSC	01.01.1990
24	Mr. Shaikh V.H.	Store Clerk	BCom	01.03.2007
25	Mr. Jadhav S.R.	Data Entry Operator	BCom, DCS	01.03.2007
26	Mr. Agawane S. B.	Assistant Librarian	BCom, Blib	20.02.2004
27	Mr. Naik A. G.	Computer Prog.	MSc, DCS	04.01.1991
28	Mr. Sanadi B. K.	Foreman	DME	15.07.1994
29	Mr. Nandrekar A. D.	Charge man	DEE	20.04.1989
30	Mr. Bhandari P. V.	Charge man	DME	24.10.1991
31	Mr. Jere R. G.	Technical Asstt.	BSc	04.01.1991
32	Mr. Karmarkar R. B.	Technical Asstt.	BSc.DCS	08.09.1995
33	Mr. Kulkarni A. R.	Technical Asstt.	DEE, BE	04.01.1991
34	Mr. Sutar R. K.	Technical Asstt.	DCE	19.09.1995
35	Mr. Kshirsagar S. W.	Technical Asstt.	BSc	02.03.1998
36	Mr. Patil S.N.	Technical Asstt.	SSC, ITI	04.04.1991
37	Mr. Mahajan S.S.	Survey Inst. Mech.	DCE	08.09.1995
38	Mr. Desai P. M.	Junior D'man	SSC, ITI	04.01.1995
39	Mr. Shinde G. S.	Instructor	SSC, ITI	06.06.1983
40	Mr. Mujawar R. S.	Instructor	SSC Fail, ITI	06.06.1983
41	Mr. Kawane D. J.	Instructor	SSC, ITI	15.07.1994

42	Mr. Jadhav V. Y.	Instructor	SSC, ITI	15.07.1994
43	Mr. Ghatge R. G.	Instructor	SSC, ITI	01.12.1990
44	Mr. D.A.Kothali	Instructor	DCE	16.08.1994
45	Mr. Gunde A.A.	Instructor	SSC, ITI	01.03.2007
46	Mr. Tupdale I.B.	Assistant Instructor	SSC, ITI	06.02.1990
47	Mr. Samudre D.W.	Assistant Instructor	9 <sup>th</sup> , ITI	01.01.1990
48	Mr. Samudre M.J.	Assistant Instructor	SSC Fail, ITI	09.04.1990
49	Mr. Sutar Sanjay S.	Assistant Instructor	9 <sup>th</sup> , ITI	01.12.1990
50	Mr. Nitave S.N.	Assistant Instructor	DIE	04.07.2012
51	Mr. Koli S. B.	General Mechanic	DCE	12.06.1990
52	Mr. Malme R. K.	Plumber	9 <sup>th</sup>	16.10.1989
53	Mr. Javeer U. S.	Lab. Asstt.	SSC	30.05.1990
54	Mr. Koli B.D.	Lab. Asstt.	SSC	07.03.1989
55	Mr. Joshi V. D.	Lab. Asstt.	SSC, ITI	16.08.1995
56	Mr. Sogate N. S.	Lab. Asstt.	DEE	08.09.1995
57	Mr. Jadhav K. S.	Lab. Asstt.	BCom, DCS	16.10.1989
58	Mr. Sarode R. S.	Lab. Asstt.	HSC	01.12.1990
59	Mr. Bhide M. H.	Lab. Asstt.	DIE, DCS	11.11.1997
60	Mr. Kolpe S. A.	Lab. Asstt.	SSC	29.09.1995
61	Mr. Kolap S.B.	Lab. Asstt.	SSC	01.01.1990
62	Mr. Narayane V.D.	Lab. Asstt.	SSC, ITI	01.12.1990
63	Mr. Sutar Shivaji S.	Lab. Asstt.	SSC, ITI	16.08.1995
64	Mr. Suryawanhsi S.K.	Lab. Asstt.	SSC	08.09.1995
65	Mr. Joshi G.B.	Lab. Asstt.	SSC	24.08.1995
66	Mr. Kamble G.N.	Lab. Asstt.	SSC	08.09.1995
67	Mr. Khandare J.N.	Lab. Asstt.	SSC, ITI	08.09.1995
68	Mr. Kulkarni S.S.	Lab. Asstt.	HSC	29.09.1995
69	Mr. Tupdale S. B.	Lab. Attendants	9 <sup>th</sup>	01.09.1979
70	Mr. Shivgan S. G.	Lab. Attendants	HSC	29.06.2000
71	Mr. Kalel S. S.	Lab. Attendants	SSC, ITI	23.02.2004
72	Mr. Magdum S. A.	Lab. Attendants	SSC	28.05.2004
73	Mr. Suryawanshi N.N.	Lab. Attendants	7 <sup>th</sup>	10.07.1980
74	Mr. Suryawanshi P.B.	Lab. Attendants	7 <sup>th</sup>	11.09.1984
75	Mr. Vadar J.H.	Lab. Attendants	9 <sup>th</sup>	11.10.1989
76	Mr. Shitole A.G.	Lab. Attendants	SSC fail	16.10.1989
77	Mr. Yadav S. B.	Lab. Attendants	9 <sup>th</sup>	06.04.1990
78	Mr. Vichare D. A.	Lab. Attendants	9 <sup>th</sup>	19.05.1990
79	Mr. Ahire V. T.	Lab. Attendants	SSC Fail	12.12.1990
80	Mr. Awale P. V.	Lab. Attendants	SSC	16.08.1995
81	Mr. Ingawale A.P.	Library Attendant	SSC fail, BA	08.09.1995
82	Mr. Jirnale M. C.	Lab. Attendants	SSC Fail	13.10.1995
83	Smt. Pawar K.R.	Lab. Attendants	9 <sup>th</sup>	10.04.1996
84	Mr. Aiwale S. K.	Lab. Attendants	SSC	13.06.2000
85	Mr. Khalipha I. M.	Hamal	2 <sup>nd</sup>	18.08.1995
86	Mr. Kamble P. B.	Hamal	8 <sup>th</sup>	28.05.2004

87	Mr. Bansode M.V.	Hamal	Literate	30.12.2004
88	Mr. Kamble D.A.	Hamal	2 <sup>nd</sup>	30.12.2004
89	Mr. Tupdale S.T.	Hamal	2 <sup>nd</sup>	30.12.2004
90	Mr. Ajmane A.P.	Hamal	SSC	30.12.2004
91	Mr. Ubale N.D.	Hamal	9 <sup>th</sup>	30.12.2004
92	Mr. Gumdale V.M.	Hamal	5 <sup>th</sup>	30.12.2004
93	Mr. Mali V.Y.	Hamal	6 <sup>th</sup>	30.12.2004
94	Mr. Parit N.L.	Hamal	HSC	01.03.2007
95	Smt. Mane R.B.	Hamal	SSC Fail	01.03.2007
96	Mr. Garate D.B.	Hamal	1 <sup>st</sup>	30.12.2004
97	Mr. Dhaval S.B.	Hamal	3 <sup>rd</sup>	30.12.2004
98	Mr. Gurav A.K.	Hamal	3 <sup>rd</sup>	30.12.2004
99	Mr. Garate M.S.	Hamal	2 <sup>nd</sup>	30.12.2004
100	Mr. Khandare S.R.	Hamal	7 <sup>th</sup>	30.12.2004
101	Mr. Mandavkar G.G.	Hamal	3 <sup>rd</sup>	30.12.2004
102	Mr. Mandavkar R.T.	Hamal	Literate	30.12.2004
103	Mr. Garate Subhash .B.	Hamal	1 <sup>st</sup>	30.12.2004
104	Mr. Soyane P.T.	Hamal	Literate	30.12.2004
105	Mr. Bawalekar (Baul) V.S.	Hamal	6 <sup>th</sup>	30.12.2004
106	Mr. Pashte S.B.	Hamal	2 <sup>nd</sup>	30.12.2004
107	Mr. Bussreddi D.S.	Hamal	BA	06.06.2013
108	Mr. Kshirsagar P.T.	Peon	SSC Fail	20.12.2016
109	Mr. Reddi R. A.	Sweeper	2 <sup>nd</sup>	16.01.1991

#### 1.4 Faculty Position:

##### Faculty Cadre: Professor



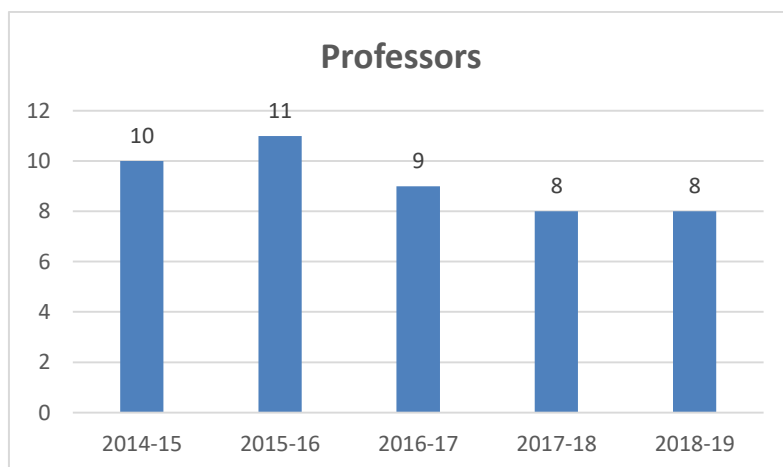
##### Faculty Qualification

**Regular Faculty position: 2018-19**

	PhD			PG+UG			Total			
	P	AsP	AP	P	AsP	AP	P	AsP	AP	Total
Civil	2	3	2	0	1	3	2	4	5	11
Mech	3	2	1	0	0	10	3	2	11	16
Elect	1	1	2	0	3	4	1	4	6	11
Eln	1	4	0	0	4	3	1	8	3	12
CSE	0	2	0	0	0	4	0	2	4	6
IT	1	1	2	0	0	3	1	1	5	7
PCM	0	2	0	0	2	3	0	4	3	7
<b>Total</b>	<b>8</b>	<b>15</b>	<b>7</b>	<b>0</b>	<b>10</b>	<b>30</b>	<b>8</b>	<b>25</b>	<b>37</b>	<b>70</b>
<b>Total</b>	<b>30</b>			<b>40</b>			<b>70</b>			

### Faculty Qualification

#### Faculty Qualification: Ph.D



**Number of PhD Faculty Members is increasing in last 5 years**

### 1.5 Library and Laboratory Facilities, Infrastructural Development:

#### Physical Resources: Central Facilities

- Ajit Gulabchand Central Library
- Central Computing facility
- Class room complex (Quadrangle)
- Workshop
- Examination Cell
- Hostels (D1-D8, Cyber, New Block)
- Tilak Hall (Auditorium)
- Gymkhana and sports
- Water Filtration plant and distribution system
- Power substation and Generator set
- Reprographic Facilities
- Dispensary
- Post office (Opposite to college premises)

- Bank (Services are extended during admissions)
- Faculty residences and staff quarters

### Ajit Gulabchand Central Library

- **State of art Building** with excellent ambience
- **Enough** Reading and stacking space
- **Rich collection** of print and digital material
- **Rich collection** of bound volumes of periodical [first issue 1919]
- Rich **book bank Scheme**
- Round the clock **study room** and **digital library** facility
- Web based OPAC and digital library
- **Open access** in the library

### Ajit Gulabchand Central Library Collection

Sr. No.	Title	2016-17	2017-18	2018-19
1.	Total Area :	4680 sq.m.	4680 sq.m.	4680 sq.m.
2.	Whether reading room available?: Y	Reading Space 817 sq.m., & 550 Seats	Reading Space 817 sq.m., & 550 Seats	Reading Space 817 sq.m., & 550 Seats
3.	Number of Books	Book Titles: - <b>42244</b> , Book Volumes: - <b>105609</b>	Book Titles: - <b>42654</b> , Book Volumes: - <b>106635</b>	Book Titles: - <b>43143</b> , Book Volumes: - <b>107859</b>
4.	Print Journals and Magazines	<b>Print Journal=121</b> <b>National</b> = Technical-86 + Professional-22 <b>International</b> =Technical-10+Professional-1	<b>Print Journal=108</b> <b>National</b> = Technical-79 + Professional-18 <b>International</b> =Technical-13+Professional-1	<b>Print Journal=112</b> <b>National</b> = Technical-81 + Professional-22 <b>International</b> =Technical-9+Professional-1
5.	E- Journals and E-books	<b>E-Journals</b> -19937, & <b>E-Book</b> -2163	<b>E-Journals</b> -19937, & <b>E-Book</b> -2163	<b>E-Journals</b> -839 + nlist.inflibnet-6000, & <b>E-Book</b> -2325
6.	Total No. of PG Dissertations/Theses	2298	2498	2723
7.	Total No. of CD's /DVD's	CD-3177 & DVD-536	CD-3287 & DVD-558	CD-3412 & DVD-578



Ajit Gulabchand Central Library



Reading Room





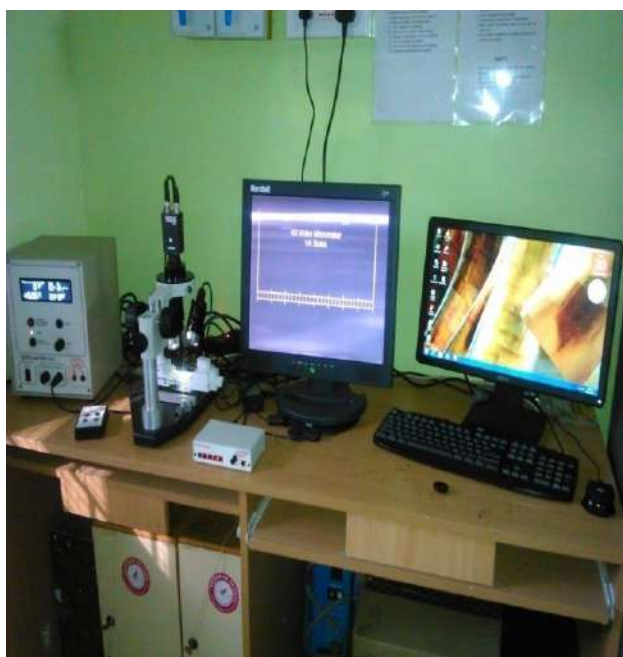
Library Internal view

As institute is 70-year-old many institute facilities such as class rooms, hostels, laboratories, Internal Roads, Sport Facilities needed renovation to improve the Infrastructure.

Also through TEQIP many high-end equipment worth 5.68 Crores were purchased in different Laboratories to develop the research infrastructure. A few of the major equipment are given below:

### Research Facilities

In TEQIP-I during 2004-08 WCE, Sangli received Rs.8.65 Crore for the development of UG Infrastructure. This helped us to purchase basic equipment in all the laboratories so that the entire UG practical can be conducted. We replaced all old experimental set ups with new one. In TEQIP-II we received Rs. **Rs. 12.5 Crores** (2012-16) of Funding to develop the PG and Research infrastructure. The Institute purchased **Rs. 5.68 Crores** of funds to purchase the research equipment. Some of the major equipment purchased during this period is as follows:



Zeta Meter, USA (Rs.17.5 Lacs)



Total Station (Rs.3.7 Lacs)

## Advanced Manufacturing (AML)/CNC Lab



**Total Investment Rs. 1.23 Crore**

- Integrated Multi-function CNC Machine
- S50 CNC EDM Machine
- CNC Lathe Machine
- Automatic Guided Vehicle (AGV)
- Micro Vickers Hardness Tester
- Z-Cast & AFDEX Simulation Software

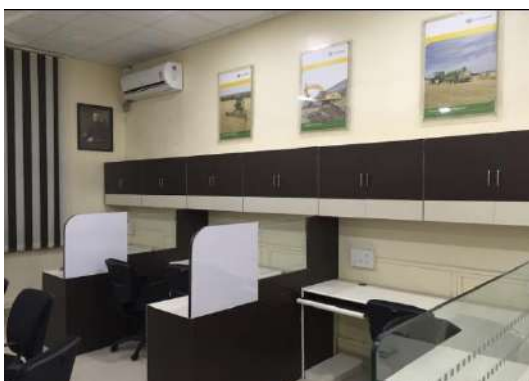


**Micro Machining Centre: Vector Controlled Induction**

**Rs. 32.36 L**

**Motor Drives: Rs. 4.25 L**

**Gas Chromatograph Rs. 10 L**





John Deere Sponsored Embedded System Lab in the Electronics Department and Danfoss supported Refrigeration and Air-Conditioned Lab in the Mechanical Engineering Department.

Now most of the laboratories in the entire departments are equipped with basic and research equipment. Also these labs are refurbished to give them the modern look. Photos of Some of the sample labs are given below:



Metallurgy Lab,



Geotechnical Engg Lab,



Power Quality and Harmonics Lab



Industrial Electronics Lab,



Database Engineering Laboratory



Microprocessor Lab

### 1.6 Sports and Extra-Curricular Facilities:

Walchand College of Engineering Sangli is having almost all Indoor and Outdoor Sports Facilities. It is utilized by the students during University Zonal Matches, Gathering Sports and National Sports Event Elan-west organized every Year with students from engineering colleges from all over the country participate in the sports competitions. The photographs of the few facilities are shown below:

- **Indoor Sports Facilities: Gymnasium, Badminton, Table Tennis, Carom, Chess, etc.**



State of Wooden **Badminton Court** (Vartak Hall) and fully equipped **Gymnasium**



**Carom and Table Tennis**

- **Outdoor Sports Facilities: Cricket, Football, Volley Ball, Basket Ball, Tennis Courts, Jogging Track, etc**







**Jogging Track and Large Cricket, Hockey and Football Ground**



**Basket Ball, Kho-Kho facility**



**Open Air Theatre and Indoor Auditorium (Tilak Hall) for Social Gatherings, and Other Extra Curricular Activities**

### 1.7 Facilities for Physically Challenged students:

At Walchand College of Engineering, Sangli, very few students are severely Physically Handicapped. Most of the Classrooms and Laboratories are at the Ground Floor, for which ramps are provided at places such as Library, Quadrangle, Main Administrative Buildings, etc. The photos of these Ramps are given below:



Ramp in **Quadrangle-Civil Dept**



Ramp in **Main Building**



Ramp in **Main Building Entrance**



**Ramp facility** at the right side of the Central Ajit Gulabchand Library

The Administrative Office and a few Laboratories of IT and Electronics Department are on the First Floor. It is planned to construct a lift in the Main building for the benefit of Physically Handicapped students.

### Other Facilities

Among other facilities we have Hostels, Mess, Medical Facility, Central Computing Facility, Language Laboratory, Water Filtration and Distribution System





**Medical Facility:** A Doctor is appointed for campus Dispensary. Regular general checkup of all students is carried out daily in the dispensary. **Hostels:** Total 8 Hostels with capacity of 600 boys and 550 girls.



Renovated **Girls Mess** with capacity of 250 and **Canteen** with at time capacity of 60 students and 25 faculty provides subsidized food



**Water Filtration Plant** of 50000 liters capacity and **Distribution System Power Substation** with 325 KVA sanctioned Capacity and **Generator set** of 125 kVA capacity along with PLC and SCADA system caters to the electricity needs during load shedding.



**Central Computing facility (CCF)** with 150 networked computers. Campus wide networking with Fiber and Wi-Fi enabled having 24 X 7, 280 Mbps (1:1) leased line & 100 Mbps NKN internet connectivity





Language Laboratory and wide internal tar Roads in the campus



Statue of Goddess of knowledge Mata Saraswati in front of Central AGC Library and lush Green Campus

## 2. RESEARCH, PROFESSIONAL PRACTICE & COLLABORATIVE PERFORMANCE

### Promotion of Research

#### Research Committee

- Review of Ph. D. progress (twice a year)
  - Phase wise progress: Department level (HoD chairman)
  - Pre-submission seminar: Institute level (Chairman: Director, Member Secretary: Dean R and D, External Faculty)
- Review of funded research projects (once a year)
  - Once a year: Institute level (Chairman: Dean R and D)

#### Research Culture

- Deputation under QIP and CTS
- Financial support for tuition fees for part time Ph D candidates
- Financial support for registration fees and inland /abroad travel for paper presentation at conferences
- QIP minor research center
- Registration fees for filing patents.
- Encouragement for applying for research proposals and publishing papers.
- Provision for seed money for pursuing minor research project
- Most of the senior faculty of each department is recognized PG/Ph D guide and are involved in research activities

#### Areas of Research

##### Civil Engineering

- Water and Wastewater Treatment
- Modeling of Environmental Systems
- Solid Waste Management
- Air Pollution
- Constructed Wetlands Building Materials and Technologies
- Energy Efficiency in Building
- Structural Engineering, Earthquake Engineering

##### Mechanical Engineering

- Machine dynamics and vibration modeling, Balancing
- Micromachining, Machining of MMCs
- Applied Soft Computing
- Optimization, Decision modeling
- Mechatronics, Control Systems
- Signal Processing
- Metal Casting
- Solidification Analysis, CFD
- Microstructure Modeling and Analysis
- Cryogenics, Heat and Fluid Flow Modeling

### Electrical Engineering

- HV Engineering, Control Systems/Power Systems
- Power Electronics
- Electrical Drives, Electrical Machines

### Electronics Engineering

- Signal Processing, Image Processing
- Communication Engineering
- Embedded System Design, VLSI Design
- Control Systems
- Mobile Communication. Sensor Networks

### Computer Science and Engineering:

- Artificial Intelligence, Pattern Recognition
- Database , Data Mining
- Networking, Image Processing
- Information Security
- High Performance Computing, Cloud Computing
- Android Applications, ECG Signal Processing

### Information Technology

- High Performance Computing
- Computer Security

### Mathematics

- Complex Analysis

## 2.1 Individual and Collaborative Research Publications and Citations and Ph.D. Guided Research Publications

Year	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	Total
Int. Journal	47	92	97	63	48	57	404
Nat. Journal	4	10	8	11	2	-	35
Int. Conference	44	36	89	68	51	40	328
Nat. Conference	13	11	11	80	87	94	296
<b>Total</b>	<b>108</b>	<b>149</b>	<b>205</b>	<b>222</b>	<b>188</b>	<b>191</b>	<b>1061</b>

### Details of Research Papers:

#### Electronics Engineering Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	Book Chapter	Timbre Vibrato Model for Singer Identification	Dr. S Subbaraman	ICTIS 2018, Vol 2, Chapter January 2019.	2019

2.	Book Chapter	FPGA Based Power Saving Technique for Sensor Node in Wireless Sensor Network	Mr. Y. B. Mane	Computational Intelligence in Sensor Networks Pages 385-404 Book Chapter, 2018	2018
3.	Book Chapter	FPGA Based Power Saving Technique for Sensor Node in Wireless Sensor Network (WSN)	Dr. Mrs. S. S. Deshpande	Chapter in Computational Intelligence in Sensor Networks Springer Book, Series Title: Studies in Computational Intelligence, 2018.	2018.
4.	International Journal	Miniaturization of Multiband Annular Slot Ring Antenna using Reactive Loading	Dr. Mrs. S. S. Deshpande	Journal of Electromagnetic Waves and applications 2018, VOL. 32, NO. 14, 1779–1790.	2018
5.	International Journal	Bearing fault diagnosis using empirical mode decomposition	Dr. S. N. Kore	IJSART, Vol 4, Issue 6 July 2018.	2018
6.	International Journal	THD minimization in multilevel inverter using optimization approach	Dr. B. G. Patil	International Journal of Engineering Research & technology, Volume 7, Issue 6, July 2018.	2018
7.	International Journal	Design of SMART ( Secure, Multichannel, Adaptive, Real Time, Tiny ) Gateway for Cyber Physical System	Mr. S. G. Tamhankar	International Journal of Computers, Volume 3, 2018, ISSN: 2367-8895	2018
8.	International Journal	Securing internet of things embedded gateway	Mr. S. G. Tamhankar	IJSART, Volume 4, Issue 7 in July 2018, PAPER ID :IJSARTV4I724428, ISSN [ONLINE] : 2395-1052	2018
9.	International Journal	Improve AODV protocol for manet black hole attack minimization	Mr. S. G. Tamhankar	IJSART, Volume 4, Issue 7 in July 2018, PAPER ID :IJSARTV4I724401, ISSN [ONLINE] : 2395-1052	2018
10.	International Journal	Design of digital Power Scope Using TI MSP430G2553 Microcontroller	Mr. V. R. Gaikwad	IJAREEIE, Vol 7, Issue 6, pp 2882-2886 June 2018	2018
11.	International Journal	Automation of Assessment Record keeping by using Web Server	Mr. V. R. Gaikwad	IJAREEIE, vol 7, Issue 6, PP 6962-6965, June 2018	2018
12.	International Journal	Illumination Invariant Hand gesture classification against complex background using combinational features	Dr. S Subbaraman	Journal of Computer Science, IJCSIS, 2018	2018
13.	International Journal	Back propagation neural network and support vector machine comparison for classification of static hand gesture	Dr. S Subbaraman	IJIERT, Sept 27, 2018.	2018
14.	International Journal	Reconfigurable power efficient high throughput digital System	Dr. S Subbaraman	Asian Journal of Convergence in Technology, 2018	2018
15.	International Journal	A spatio temporal approach for vision based hand gesture recognition using hough Transform and Neural network	Dr. S Subbaraman	Signal, Image and Video Processing, Springer, ISSN: 1863-1703 (Print) 1863-1711 (Online)	2018
16.	International Journal	Hardware design and development of Engine control unit for four cylinder	Mr. Y. B. Mane	International Journal of science and Advance Research in Technology,	2018

		engine		ISSN[ONLINE]:2395-1052, June 2018	
17.	International Journal	Smart Security System based on Rpi	Ms. S. U. Patil	International Journal for Science and Advance Research in Technology vol 4, Issue 5, ISSN : : 2395-1052, PAPER ID :IJSARTV4I523605	2018
18.	International Journal	Automotive eye Controlled wheelchair system using Rpi	Ms. S. U. Patil	International Journal for Science and Advance Research in Technology vol 4, Issue 5, May 18. ISSN : 2395-1052, PAPER ID :IJSARTV4I523735	2018
19.	International Journal	Design and Implementation of Combinational Circuits using Reversible Gates	Ms. S. U. Patil	International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 , Volume: 06 Issue: 03   Mar 2019	2019
20.	International Conference	Underwater image by Rayleigh stretching with adaptive scale parameter and energy correction	Dr. Mrs. S. S. Deshpande	International Conference on Computing Communication and Signal Processing (ICCASP 2018), BATU Lonere, 2018	2018
21.	International Conference	Underwater image colour balance by Grey World approach with attenuation map	Dr. Mrs. S. S. Deshpande	International Conference on Computing Communication and Signal Processing (ICCASP 2018), BATU Lonere, 2018	2018
22.	International Conference	Slot Loaded Multiband Miniaturized Rectangular Microstrip Antenna for Mobile Communications	Dr. Mrs. S. S. Deshpande	3rd International conference on ICT for Intelligent System (ICTIS), 2018 Springer	2018
23.	International Conference	Vehicle Detection and Categorization for a Toll Charging System Based on TESSERACT OCR Using the IoT	Dr. V. B. Dharmadhikari	Proceedings of the International Conference on Communications and Cyber Physical Engineering 2018	2018
24.	International Conference	Low Cost Solution for On-Board Battery Charger of Electric Vehicle	Dr. S. D. Ruikar	International Conference on New Trends in Engineering & September 07th & 08th 2018 (ICNTET), GRT Institute of Engineering and Technology, Tamil Nadu,	2018
25.	International Conference	Fast Charging Algorithms development in MATLAB for Lead-Acid Batteries	Dr. S. D. Ruikar	International Conference on New Trends in Engineering & Technology, September 07th & 08th 2018 (ICNTET), GRT Institute of Engineering and Technology, Tamil Nadu, India	2018
26.	International Conference	Design and Implementation of a Decomposition Framework for an Image	Dr. S. D. Ruikar	International Conference on Power, Communication and	2018



		Denoising Algorithms		sustainable Energy System (ICPCSES-18). 20 June 2018 to 21 June 2018, SRM University, Chennai.	
27.	International Conference	Software Design and development of Engine control unit for four cylinder Petrol engine	Mr. Y. B. Mane	International Conference on Computing Communication control and Automation, 16-18 Aug 2018	2018
28.	International Conference	Design and development of On Board Diagnostic (OBD) Device for Car	Mr. Y. B. Mane	International Conference on Computing Communication control and Automation, 16-18 Aug 2018	2018

### Information Technology Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	International Book Chapter	Handling of Medical Imbalanced Big Data Sets for Improved Classification using Adjacent_Extreme Mix Neighbors Over Sampling Technique	Sachin S. Patil and Shefali P. Sonavane	Volume 1	Oct 2018
2.	Int. Journal	F-WSS++ : incremental wrapper subset selection algorithm for fuzzy extreme learning machine	Archana Kale and Shefali Sonavane	International Journal of Machine Learning and Cybernetics, Springer DOI 10.1007/s13042-018-0859-9 Impact factor: 2.692 ISSN: 1868-8071, Journal No. 13042	Aug 2018
3.	Int. Journal	Comparative Study of CEC'2013 Problem using Dual Population Genetic Algorithm	A. J. Umbarkar	MECS International Journal of Information Engineering and Electronic Business (IJIEEB) Vol 10(5)	Sept 2018
4.	Int. Journal	Maximize the lifetime of sensor network by load balancing using tree topology	Mrs. B. S. Shetty	Volume 9	July 2018
5.	Int. Journal	PF-FELM : A Robust PCA Feature Selection for Fuzzy Extreme Learning Machine	Archana Kale and Shefali Sonavane	International - IEEE journal of Selected Topics in Signal Processing (J-STSP) Special Issue on Data Science: Robust Subspace Learning and Tracking: Theory, Algorithms, and Applications Electronic ISSN: 1941-	Oct 2018

				0484 Volume 12, Issue 6	
6.	Int. Journal	Cluster based Under Over Sampling Technique to Handle Imbalanced Big Data Set Classification	Sachin S. Patil and Shefali P. Sonavane	Volume 6	Sept. 2018
7.	Int. Conference	Performance Evaluation of Runner-Root Algorithm on CEC 2013 Benchmark Functions	A.J. Umbarkar	vol 816	Jan 2019
8.	Int. Conference	Optimizing Deep Convolutional Neural Network for Facial Expression Recognition	U.B. Chavan	Volume 1	Jan 2019
9.	Int. Conference	Performance issues of parallel, scalable Convolutional Neural Networking Deep Learning.	U.B.Chavan	volume 810	Sep,2018
10.	Int. Conference	A Decision Support System Using Analytical Hierarchy Process for Student-Teacher-Industry Expectation Perspective	S. S. Pawar; R. R. Rathod	Advances in Intelligent Systems and Computing, vol 810. Springer, Singapore. Proceedings of ICCASP 2018, Volume 810	26 Jan 2018
11.	Int. Conference	Optimizing Deep Convolutional Neural Network for Facial Expression Recognition	D. B. Kulkarni	Volume 1	Jan 2019
12.	Int. Conference	Design and Development of Integrated Deep Convolution Neural Network for Handling Heterogeneous Medical Data	A.J. Shikalgar and S. P. Sonavane	International IEEE Conference on Artificial Intelligence (IEEE Conference Record Number 45948)	Feb 2019
13.	National Conference	Mathematical Model of IoT based Decision Support System for Uncertainty Classification Problem	Archana Kale and Shefali Sonavane	National Research Symposium on Computing - Walchand College of Engineering Sangli, RSC 2018 Proceeding 3	Dec 2018
14.	National Conference	Minority Majority Mix mean Over sampling Technique: An Efficient Technique to Improve Classification of Imbalanced Data Sets	Sachin S. Patil and Shefali P. Sonavane	National Research Symposium on Computing - Walchand College of Engineering Sangli, RSC 2018 Proceeding 3	Dec. 2018
15.	National Conference	Hybrid Deep Learning Approach for Classifying Alzheimer Disease based on Multimodal Data	A.J.Shikalgar and S. P. Sonavane	National Research Symposium on Computing - Walchand College of Engineering Sangli, RSC 2018 Proceeding 3	Dec. 2018
16.	National	Application of Linguistic knowledge	Arun	National Research	Dec.

	Conference	in Factored Language Modeling for Hindi language	Babhulgaonkar and Shefali Sonavane	Symposium on Computing - Walchand College of Engineering Sangli, RSC 2018 Proceeding 3	2018
17.	National Conference	Automatic Feature Extraction for CBIR and Image Annotation Applications	S. B. Nemade and S.P. Sonavane	National Research Symposium on Computing - Walchand College of Engineering Sangli, RSC 2018 Proceeding 3	Dec. 2018
18.	National Conference	Behavioral Analysis of Routing Protocols in VANET	B.S. Yelure and S.P. Sonavane	National Research Symposium on Computing - Walchand College of Engineering Sangli, RSC 2018 Proceeding 3	Dec. 2018

### CSE Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	International Journal	Survey of Feature Identification in Client-side Web Application	Mr. A.R. Surve, Mr. Hitesh Chavan	International Journal of Advanced Computational Engineering and Networking, 2320-2106, Vol 3 Issue 3, 49-52,	02-May-19
2.	International Journal	High performance iterative elemental product strategy in assembly-free FEM on GPU with improved occupancy	N. K. Pikle, S. R. Sathe, A. Y. Vyavahare	Computing, Springer (ISSN: 1436-5057) Volume 100, Issue 12, pp. 12731297	1-12-18
3.	International Journal	GPGPU-based parallel computing applied in the FEM using the conjugate gradient algorithm: a review	N. K. Pikle, S. R. Sathe, A. Y. Vyavahare	SADHANA -Academy Proceedings in Engineering Sciences Journal, SPRINGER. (ISSN: 0256-2499) Volume 43 Issue 111	1-7-18
4.	International Journal	Accelerating the finite element analysis of functionally graded materials using fixed-grid strategy on CUDA-enabled GPUs	N. K. Pikle, S. R. Sathe, A. Y. Vyavahare	Concurrency and Computation: Practice and Experience, WILEY. (ISSN: 1532-0634)	3-4-19
5.	International Journal	Continuous Integration and end-to-end Automation Framework	S.Shrawane, M.A.Shah	International Journal Of Computer Sciences	31-5-19



		Deployment using Docker		And Engineering (IJCE)	
6.	International Journal	Use of Convolution Neural Network for Fingerprint Liveness Detection	A.M.Chougule, M.A.Shah	JCSE International Journal of computer science and engineering.	31-5-19
7.	International Conference	A Scheme of Answer Selection in Community Question Answering using Machine Learning	Mohini Wakchure, P J Kulkarni	-	15-5-19
8.	International Conference	Fast Smoke Detection from Videos using CUDA	Shital Gaikwad, Hetal Gandhi	-	16-6-19

### Mechanical Engineering Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	International Journal	Process Parameter Optimization of CO2 Moulding Sand Using Response Surface Methodology	Dr. K. H. Inamdar	International Journal for Recent Trends and Innovation (IJRTI), Vol. 3 Issue 6, Impact Factor: 4.8, pp. 128-132.	Jun-18
2.	International Journal	Methodology for Salvaging by FDM Technology	Dr. K. H. Inamdar	Journal of Emerging Technologies and Innovative Research (JETIR), (ISSN: 2349-5162), UGC Approved, Impact Factor 5.87, Vol. 6, Issue 1, pp. 42-45.	Jan-19
3.	International Journal	Sand Casting Simulation: A Review	Dr. K. H. Inamdar	Journal of Emerging Technologies and Innovative Research (JETIR), (ISSN : 2349-5162), UGC Approved, Impact Factor 5.87, Vol. 6, Issue 1, pp. 46-49	Jan-19
4.	International Journal	Effect of Process Parameters of TIG And MIG Welding for Mild Steel	Dr. K. H. Inamdar	Journal of Emerging Technologies and Innovative Research (JETIR), (ISSN : 2349-5162), UGC Approved, Impact Factor 5.87, Vol. 6, Issue 1, pp. 171-174	Jan-19
5.	National Conference	FE Analysis of Moving Magnet Miniature Compressor	Rahul Awargand, Maruti Khot	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018

6.	National Conference	Vibration Isolation of Fixed-Fixed Beam Using Dynamic Vibration Absorber	RupeshTatte, Vishal Dhende	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
7.	National Conference	Simulation and Analysis of Quarter Car Active Suspension System for Sinusoidal Disturbance	Narendra Kulkarni, Arvind Kale, Shivdas Prasad, Jaywant Kolhe	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
8.	National Conference	Analytical and Experimental Study of Conical Compression Spring	Nitin R. Salunkhe, Prof.V.P. Sutar, Prof. A.P. Patil	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
9.	National Conference	Design of a Tuned Liquid Column Ball Damper For Vibration Reduction of Tall Structures Subjected To Low Frequency Crosswind Excitation	Yogesh Kachare, Shridhar Govind Joshi	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
10.	National Conference	Estimation of Defect Severity In Cylindrical Roller Bearing Using Vibration Signals	Onkar Pathak, Prabhakar Maskar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
11.	National Conference	Design and Optimization Of Hollow Composite Propeller Shaft For Light Motor Vehicle	Naganath D. Narale, Abhinandan B. Admuthe	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
12.	National Conference	A Review On Design Optimization of Air Filter In Diesel Engine By Using CFD Analysis	Unavane Parnili, Kale Arvind	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
13.	National Conference	Design and Analysis of Isotruss Footbridge	Ajinkya Abdar, Vishal Dhende, Sajal Roy	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
14.	National Conference	Effect of Particle Damper On Vibration Amplitude And Surface Finish of Machined Component on VMC	Surendra Sarode, Arvind Kale	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
15.	National	Concept Generation and Selection For	Rohit Kodole, M. B. Patwardhan2,	3rd National Conference on Recent Trends in	Jul-2018

	Conference	Slope And Hill Climbing Robot	Purnanand Singh, M. K. Pathak	Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	
16.	National Conference	Concept Generation and Selection For Position Control of The Implement Attached To An Off-Road Vehicle	Shahajahan Desai-Danwade, Dr. Joshi S. G., Prabhakar Maskar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
17.	National Conference	Design, Optimization and Analysis of Mahindra Scorpio Chassis Model	Sanket Hadimani, Shridhar Limaye	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
18.	National Conference	Effect of Maximum Traction In Mode I Failure In Laminated Composite Structure	Rohit Chavan, P. D. Maskar, C. Ramadas	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
19.	National Conference	Concept Generation and Selection For Rope Assisted Wall Climbing Robot	Shridhar Patil, M. B. Patwardhan, M. K. Pathak, Purnanand R. Singh	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
20.	National Conference	Detection of Bearing Fault and Its Size Estimation Using Wavelet Transform	Ishwar Padalkar, A P Patil, P D Maskar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
21.	National Conference	Numerical and Experimental Analysis of Un-cracked and Cracked Fixed - Fixed Beam for Free Vibration	Ravikiran M. Mahanure, Prabhakar D. Maskar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
22.	National Conference	Design and Development Of Air Filter Test Rig And Dust Feeding Mechanism As Per ISO 5011	Sakunde P.D., Limaye S.H.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
23.	National Conference	Vibration Control of The Implement of an Off-Road Vehicle	Vaibhav Hire, Dr. S.G Joshi, Vishal Dhende,	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
24.	National Conference	Concept Development and Building Of Prototype For Three Wheeler Passenger Vehicle With Improved	Dhananjay G. Gadekar, J.M.Dabir	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at	Jul-2018

		Capacity		WCE, Sangli.	
25.	National Conference	Development of Quick In Situ Balancing Approach For Rigid Rotors	Nalawade S.L., Paranjpe A.U.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
26.	National Conference	Experimental Transient Analysis Of Unimorph and Bimorph Piezoelectric Energy Harvester	Nikita Nagmoti, Dr. Shridhar Joshi, Vishal Dhende, Dr. Sajal Roy	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
27.	National Conference	Effect Of Variation In Parameters Used In DCB Delamination Analysis Using Cohesive Zone Modelling	Ruturaj Gulaskar, S.G.Joshi, P.D.Maskar, Amit Gupta	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
28.	National Conference	Design and Development of Special Purpose Machine For Drilling and Tapping	I. B. Vanmore, A. K. Kale, Anil Kulkarni	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
29.	National Conference	Design, Development and Testing Of Spraying And Ploughing Agriculture Machine	Snehal waghate, Dr. Prof. M.M.Khot, D.B.Patil	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
30.	National Conference	Design and Development Of Rubber Bush Swaging Machine And Push-Pull Test	Chavare S. S., Limaye S. H.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
31.	National Conference	Effect of Inner and Outer Clearance On Rotor Dynamics	Shruti Salokhe, M.B.Patwardhan. J.M.Ramamoorthy	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
32.	National Conference	Parametric Study and Design Of Lift Irrigation Scheme	Kiran M. Jadhav, Dr. S.P.Chavan, Nilesh Patil	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
33.	National Conference	Comparative Study of Shear Stress In Cylindrical And Conical Helical Compression Spring	Nitin R. Salunkhe, Prof. V. P. Sutar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018

34.	National Conference	Investigation of Magnetorheological Finishing	A.K. More, R.M. Chanmanwar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
35.	National Conference	Photochemical Machining: A Review	Omkar Patil, Rahul Chanmanwar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
36.	National Conference	Characteristics Analysis of Hole Repeatability In Co2 Laser Drilling	Siddhant Gade, Prof. Dr. K. H. Inamdar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
37.	National Conference	Design Optimization of Gating System Through Simulation Technique For Steel Gear.	U. S. Patil, K.H. Inamdar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
38.	National Conference	Optimization of Resistance Spot Welding Process Parameters For Heat Affected Zone Of Dissimilar Welded Joint	J. A. Karande, K.H. Inamdar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
39.	National Conference	Optimization of Micro-Hardness In Friction Stir Welding Process By Using Taguchi Method	N. V. Desai, K. H. Inamdar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
40.	National Conference	Optimization of Indexable End Milling Process On Titanium Alloy [Ti-6Al-4V]	Prathamesh Gurav, Sharad V.Gaikwad	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
41.	National Conference	Investigation of Friction Drilling Process	Akshay Potdar, Sagar Sapkal	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
42.	National Conference	Development and Testing Of ELID Assisted Abrasive Fine Finishing Setup	J. A. Shinde, Prof. Dr. S. U. Sapkal, Prof. R. M. Chanmanwar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018

43.	National Conference	Process Improvement and Reduction Of Cycle Time For GTMC CNC Used In Machining Of Multistage Pump	Rathod R. P., Chanmanwar R. M.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
44.	National Conference	Optimization of Parameters Of “Shielded Metal Arc Welding”, FOR CAST IRON	Dnyaneshwar D. Renke, Bipin Shevade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
45.	National Conference	Design and Development Of 3D Printer Based On FDM Technique	S. R. Chothe, A.A.Hadgaonkar, V. V. Randive, J. A. Shinde, S.U. Sapkal, B.R.Shevade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
46.	National Conference	Experimental Analysis On Input Shaft Reverse Gear Section	Bhilawade T. A., Sapkal S. U.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
47.	National Conference	Experimental Investigation of Gas Metal Arc Welding (GMAW) Process For Aluminium AA6061-T6	Ashish Chafekar, Sagar U.Sapkal	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
48.	National Conference	Parameter Optimization of Fused Deposition Modelling For Tensile Strength On Abs Plastic	Vikas Randive, Prasanna Chougule, Uday Dabade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
49.	National Conference	Implementation of Kanban System For Inventory Management For Assembly Line	Kalpesh V Bhagat, Sharad Gaikwad, Mangesh Ashtekar	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
50.	National Conference	Optimization of Laser Cutting Parameters For SS 316L Thick Plate Using Taguchi Method	Ramesh Kavare, Bipin Shevade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
51.	National Conference	Effectiveness and Efficiency Improvement Of RN Series Pumps By Using statistical QC Tools	Kiran Pawar, Bipin Shevade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018

52.	National Conference	Design and Development Of Automatic Wiper For Vehicle	Sagar U. Sapkal	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
53.	National Conference	Implementation of Lean Tools In Sheet Metal Processing Industry	Sayagaonkar A. R., Bhandare A. S.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
54.	National Conference	Casting Defect Prediction of Cast Iron Casting Using Simulation: A Case Study	B. K.Nigade, U. A. Dabade , C. R. Bhide	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
55.	National Conference	Line Balancing Using Maynard Operation Sequence Technique (MOST)	S. S. Gavade, U.A.Dabade, S. V. Kulkarni	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
56.	National Conference	Material Cost Reduction In Passenger Car By Using Value Analysis-Value Engineering	K.D. Shelar, U.A. Dabade, S.V. Bannur	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
57.	National Conference	Breakdown Reduction of Bottle Neck Machines Through Failure	Mumane G. S., Bhandare A. S.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
58.	National Conference	Productivity Improvement In Engine Assembly Line Through Sediment Reduction	A.A. Lalsare, U.A. Dabade, Y.Kale	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
59.	National Conference	Experimental Study Of Reverse Micro-EDM Process For Multiple Electrodes Fabrication	A. P. Dombale, U. A. Dabade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
60.	National Conference	Optimization of Micro-EDM Process Parameters For Machining Of SS316l Alloy	S. A. Awati, U. A. Dabade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018

61.	National Conference	Multi Response Variables Optimization Of Electro Discharge Machining By Grey Relational Analysis	Mahendra M. Ghayatadak, Amar S. Bhandare	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
62.	National Conference	Additive Manufacturing: A Review	Akash Y. Waghmare, Prasanna B. Chougule , Uday A. Dabade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
63.	National Conference	Development Of Model Of Autosimulator	Suraj Sajjan, Indranil Patil <sup>1</sup> , Dr. S. U. Sapkal	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
64.	National Conference	Experimental Investigation Of Magnetic Field Assisted EDM	Shailesh Nandagavle, Pratham Masuti, Amar Bhandare	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
65.	National Conference	Performance Analysis Of Microchannel Heat Exchanger In Vapour Compression Refrigeration System	Akash Katakdhond, Bajirao Gawali	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
66.	National Conference	Analysis and Design Of Cooling System For Lubricating System In Vertical Turbine Pump	Vishwadeep Vilas Patakure, Bajirao Gawali	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
67.	National Conference	Thermal Analysis Of Thrust Bearings For Vertical Turbine Pump	Vishal Parade, Madhav Joshi	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
68.	National Conference	Selection of Best Meshing Method And Turbulence Model For Analysis Of High Pressure Steam Flow In throttling Calorimeter Using Ansys Fluent	Sagar G. Mushan, Dr. N. K. Sane, Dr. B. S. Gawali, Hrishikesh Kulkarni	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
69.	National Conference	Development and Evaluation Of Alternative Absorbent-Refrigerant System	Swapnil Jadhav, Narayan Sane, Babu Panneerselvam	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018



70.	National Conference	Comparison of Boiler Performance For Shredded Feeding And Bale Feeding Of Rice Straw	Shailesh Bobade, Pravin Mane, Prakash Soman, Kishor Vaidya	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
71.	National Conference	Shell and Tube Heat Exchanger As An Evaporator For Chiller System	N. R. Darade, M. S. Joshi, A. M. Dulange, V. S. Bhadade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
72.	National Conference	Comparative Analysis Of A Cascade Refrigeration System For Refrigerant Couples R134a/R404a And R134a/R410a And Using Phase Change Material (PCM)	S.S. Chaudhari, B.S. Gawali	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
73.	National Conference	Experimental Investigation Of Ejector Refrigeration System By Changing The Nozzle Design And Varying The Suction Parameters	Pratik Phadtare, Babaso Naik, P. Babu	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
74.	National Conference	Forced Convection Heat Transfer Augmentation Using Flow Divider Type Inserts At Various Spatial Positions	B. E. Patil, N. K. Sane, S. D. Jagtap	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
75.	National Conference	Factors Affecting On Solar Photovoltaic Output	M. V. Panchal, G. V. Parishwad, S. M. Ranade, V. P. Mohale <sup>4</sup>	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
76.	National Conference	Design and Development Of Test Rig For Testing Of Centrifugal Water Pump	Pawar S.R., Limaye S.H.	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
77.	National Conference	Performance Analysis Of Shell And Tube Heat Exchanger With Flow Divider Type Of Baffles.	Nikhil Panadare, N.K. Sane, B.S. Gawali	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
78.	National Conference	CFD Analysis and Experimental Validation Of Bagasse Dryer	Patil Yoges h Kashinath, S.M.Ranade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018

79.	National Conference	Performance Analysis Of Vapour Compression Refrigeration System Using Phase Change Material	A.J.Wagh, B.S.Gawali	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
80.	National Conference	Experimental Investigation Of Forced Convection And Desiccant Bed Solar Dryer	Shailesh Pujari, Sanjay Ranade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
81.	National Conference	Closed Loop Heat Pump Dryer For Drying Agricultural Products	Yogesh Bhanudas Patil, Prof. Sanjay Ranade	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
82.	National Conference	Development Of Pulse Tube Cryocooler	Tejas Bamnote , Bajirao Gawali	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018
83.	National Conference	Improvement In Performance And Analysis Of Multistage And Multi-Evaporator Refrigeration System	Pratik Kudalkar, Madhav Joshi	3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME – 2018) at WCE, Sangli.	Jul-2018

### Civil Engineering Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	International Journal	Low Cost Household Water Treatment Systems: A Review	A. D. Mande, B. R. Kavathekar, A. S. Langade, N. G. Lasankute S. H. Patle	International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 7, Issue 3, 2018.	July, 2018
2.	International Journal	Effect of $\zeta$ -Potential of Influent Particles on Initial Filter Coefficient for Rapid Sand Filters	Dr.V.D.Salkar, Dr.A. R. Tembhurkar	Journal of Water Chemistry and Technology 41(3):188-196 · May 2019 with 3 Reads DOI: 10.3103/S1063455X19030093	May, 2019
3.	International Journal	Sustainable Building Design And Project Management Using (Bim): A Case Study On New Civil Hospital Building, Sangli.	Magdum A.A., Rushikesh Kadam, Mohammed Ahemad Khan, Neha shelke, Revati Mutha	International journal of scientific research and review ,Volume 07, Issue 05, May 2019	May, 2019
4.	International Conference	Performance evaluation of Anaerobic Baffled Reactor	Munavalli G. R., Sonavane P. G.	International Conference on Materials and Environmental	December, 2018

		for Treatment of Low Strength Domestic Wastewater	Deshpande G.V., Wandare S. M., Aswale N. K. Biradar and S. S. Yenji	Science [ICMES-2018] held on December 07 and 08, 2018 at Shivaji University, Kolhapur	
5.	International Conference	Performance evaluation of Anaerobic Baffled Reactor for Treatment of Low Strength Domestic Wastewater	S. S. Yenji and Munavalli G. R.,	International Conference on Materials and Environmental Science [ICMES-2018] held on December 07 and 08, 2018 at Shivaji University, Kolhapur	December, 2018
6.	International Conference	Development of Baffled and Biorack Hybrid Constructed Wetland – Initial Problems	M. M. Koli and Munavalli G. R.,	International Conference on Materials and Environmental Science [ICMES-2018] held on December 07 and 08, 2018 at Shivaji University, Kolhapur	December, 2018
7.	International Conference	Application of Water GEMS for Analysis of Water Distribution System	P. P. Surana, V. D. Salkar, B. R. Kavathekar	1st International Conference on Materials and Environmental Science (ICMES-2018) held on 07th -08th December, 2018 at Shivaji University, Kolhapur.	December, 2018
8.	International Conference	A Study on Energy Potential of Sugarcane Crop Residue and Its Utilization: A Review	Nupur Paerkh, C. H. Wagh, B. R. Kavathekar	1st International Conference on Materials and Environmental Science (ICMES-2018) held on 07th -08th December, 2018 at Shivaji University, Kolhapur.	December, 2018
9.	International Conference	Reclamation of Salt Affected Agricultural Land using various Amendments: A Review	Amit Gawale , C. H. Wagh	International Conference on Materials and Environmental Science [ICMES-2018] held on December 07 and 08, 2018 at Shivaji University, Kolhapur	December, 2018
10.	International Conference	A Study on Energy Potential of Sugarcane Crop Residue and its Utilization: A Review	Nupur Parekh, C. H. Wagh	International Conference on Materials and Environmental Science [ICMES-2018] held on December 07 and 08, 2018 at Shivaji University, Kolhapur	December, 2018
11.	International Conference	Artificial Floating Wetland is Effectively Used for the Treatment of Dairy Wastewater	A. S. Tompe, C. H. Wagh	International Conference on Materials and Environmental Science [ICMES-2018] held on December 07 and 08, 2018 at Shivaji University, Kolhapur	December, 2018
12.	International Conference	Environmental Pollution due to Auto-rickshaws	S. R. Pinjari , P. G. Sonavane , A. K. Waghmare	International Conference on Materials and Environmental Science [ICMES-2018] held on December 07 and 08, 2018 at Shivaji University, Kolhapur	December, 2018

13.	National Conference	Studies on floating treatment wetland – A Review	S. D. Dasare and Munavalli G. R.,	National conference on Environment pollution control and management (EPCM-2019) held on March 01 and 02, 2019 at College of Engg., Pune	March, 2019
14.	National Conference	Effect of Application of Spray Aeration on Field Scale Vertical Flow Constructed Wetland	B.S. Dhamangaonkar and Munavalli G. R.,	National conference on Environment pollution control and management (EPCM-2019) held on March 01 and 02, 2019 at College of Engg., Pune	March, 2019
15.	National Conference	Development Of Onsite Domestic Waste Water Treatment System	A. R. Thorat, P.M.Kolte, A.M.Patil, S.S. Patil A.A.Sutar, Dr.G.R.Munavalli	National Conference on Advancement and Innovations in Civil Engineering, (NCAICE 2019) Proceedings Volume of National Conference Page 131-137 ISBN978-81-926416-6-9	May, 2019
16.	National Conference	A study on brickbat as supporting medium in constructed wetland	M. M. Koli, Dr. G. R.Munavalli, and S. M Wandare	National Conference on Advancement and Innovations in Civil Engineering, (NCAICE 2019) Proceedings Volume of National Conference Page 131-137 ISBN 978-81-926416-6-9, May 2019	May, 2019
17.	National Conference	Microbial Degradation of Keratin Waste: A Review	R. R. Patil, C. H. Wagh and B. R. Kavathekar	National Conference on Environmental Pollution Control and Management - EPCM 2019 held on 1st-2nd March, 2019 at College of Engineering, Pune.	March, 2019
18.	National Conference	Microbial Degradation Of Keratin Waste: A Review	R. R. Patil, Prof. C. H. Wagh, Prof. B. R. Kavathekar	National conference on “Environment pollution Control and Management (EPCM-2019)” at College of Engineering, Pune	March, 2019
19.	National Conference	Study Of Air Pollution Due to Vehicular Emission: A Review	P. A. Budruk, Dr. P. G. Sonavane	National Conference on Environment Pollution Control and Management (EPCM2019); (under TEQIP III) , Department of Civil Engineering , College of Engineering Pune	March, 2019

20.	National Conference	Pretreatment Of Lignocellulosic Biomass Prior To Bio methanation: A Review	S. S. Pawar, Dr. P. G. Sonavane	National Conference on Environment Pollution Control and Management (EPCM2019); (under TEQIP III) , Department of Civil Engineering , College of Engineering Pune	March, 2019
21.	National Conference	Revamping Of Solid Waste Management System In Urban Areas Of India: A Review	M. M. Khalate, P. G. Sonavane	National Conference on Environment Pollution Control and Management (EPCM2019); (under TEQIP III) , Department of Civil Engineering , College of Engineering Pune	March, 2019

### Applied Mechanics Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	International Journal	Estimate of Peak relative velocity from conventional spectral velocity for response spectrum based force evaluation in damping devices	Ravindra Desai, Shrirang Tande	Structures (Elsevier),15, 378-387	Sept. 2018
2.	International Journal	Influence of Design Parameters on Performance of SMRF Installed with Buckling Restrained Brace	Thorat Ankita Prashant, Dr. S. N. Tande and Dr. H. R. Magar Patil,	Journal of Emerging Technologies and Innovative Research (JETIR), May 2019, Volume 6, Issue 5, ISSN-2349-5162, pp 7-15	May 2019
3.	International Journal	Comparative Analysis of Horizontally Curved Prestressed Concrete Multi-Cell Box Girders	Parag Tatya Jagtap and Dr. S. N. Tande,	Journal of Emerging Technologies and Innovative Research (JETIR), May 2019, Volume 6, Issue 5, ISSN-2349-5162, pp 40-50	May 2019
4.	International Journal	Seismic Performance Assessment of Concrete Diagrid Structures	Amruta S. Desai and Dr. S. N. Tande	Journal of Emerging Technologies and Innovative Research (JETIR), May 2019, Volume 6, Issue 5, ISSN-2349-5162, pp 68-74	May 2019
5.	International Journal	Steel Truss Bridge Using Mesh Insensitive Method	Chhaya Dhanraj Chavan and Dr. S. N. Tande,	Journal of Emerging Technologies and Innovative Research (JETIR), May 2019, Volume 6, Issue 5, ISSN-2349-5162, pp 567-572	May 2019
6.	International Journal	Wind Induced Response of Tall Building with Tapered Opening	Pranav N. Joshi and Dr. S. N. Tande	Journal of Emerging Technologies and Innovative Research (JETIR), June 2019, Volume 6, Issue 6, ISSN-	June 2019

				2349-5162, pp 582-590	
7.	International Journal	Blast Load Mitigation of Concrete Bridge Circular Piers by External Strengthening of Pier	Pallavi N Khude and Dr. S. N. Tande	International Journal for Research in Applied Science & Engineering Technology (IJRASET), Volume 7 Issue VI, June 2019, ISSN: 2321-9653, pp 2648-2654	June 2019
8.	International Journal	Wind-Induced Fatigue Analysis of Diagrid Structural System for High Rise Steel Buildings	Kartik Choudhari Sachin Kadam and Vijay Khose	Journal of Structural Engineering (JOSE),SERC	June 2019
9.	International Journal	Seismic Fragility Reduction of a Unreinforced Masonry School Building through Retrofit	Kadam S.B., Singh, Y.,& Li, B	Earthquake Engineering and Engineering Vibration	June 2019
10.	International Journal	Effect of Substructure on Seismic Performance of Bridges	Ghule Akash and Sachin Kadam	International journal of Advance Research in Science and Engineering, volume No 7,Special issue No 3, April 2018, ISSN:2319-8354	June 2018
11.	International Conference	Multiobjective Optimal Passive Control using Genetic Algorithm and Heuristic Strategy	Ravindra Desai, Shrirang Tande	Thirteenth International Conference on Computational Structures Technology 2018., Barcelona, Spain, 3-5 Sept. 2018.	Sept 2018
12.	International Conference	Structural Performance Assessment of Offshore Wind Turbine Jackets-a Comparative Study Under Dynamic Loading Environment	Ravindra Desai, Krishna Makwana, Sandeep Potnis	International conference on 'Techno societal 2018-2nd international conference on advanced Technologies for societal application, Pandharpur, India, 14-15 Dec 2018.	December 2018
13.	International Conference	Dynamic Response of Reinforced Concrete Structures subjected to Blast Loading	Ravindra Desai, Shrirang Tande	3rd R N Raikar Memorial International Conference & Gettu-Kodur International Symposium Advances In Science & Technology Of Concrete Technology 2018, Mumbai (India),14-15 Dec 2018.	December 2018

### Electrical Engineering Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	International Journal	Stabilization of Cart Inverted pendulum using type 2 fuzzy PID Controller	Shraddha D. Tale, N. V. Patel	IJMTER	18-21 Dec 2018

2.	International Journal	Supreme Boost Control of Buck-boost Voltage Source Converter with X-Shape Diode-Capacitor Network.	Dr. R. P Hasbe	IJMTTER	19-May-19
3.	International Conference	Optimal Placement of PMUs and Phasor Estimation Using OPAL-RT Real-time Simulator	Suved Pakade, Anil Vaidya	ICETIETR, Ernakulam India	ICETIETR, 11-13 Jul 2018,
4.	International Conference	Back-up Protection to the Transmission Line using Optimal number of PMUs	Suved Pakade, Anil Vaidya	ICRIEECE	27-28 Jul 2018,
5.	International Conference	Power System Stabilizer Tuning of SMIB using Scilab Software	Punam Borkar & Anil Vaidya	I2CT, Mangalore, India	I2CT, 27-28 Oct 2018,
6.	International Conference	A single stage SAPF based on single phase transformer coupled with 3- $\phi$ bridge converters	Shendage ,Koushik Mhaskar, S S Vanmane	IEEE Proceedings Goa India	16-Jun-19
7.	International Conference	Performance Evaluation of Model-based Controllers or Data-driven Models of Temperature Control System employing Embedded Platform	R. G. Datar, D. S. More and S. S. Kamble	ICCPCT-GUCON -Greater Noida New Delhi	28-29 Sep 2018
8.	International Conference	Partial Unfolding Modulation Strategy for Grid Feeding Transformerless PV Inverter	Rustam Kumar, Madhurani Rajaput , Nachiketa Deshmukh, Dagadu More, Sandeep Anand	IEEE conference IIT Madras India	18-21 Dec 2018
9.	International Conference	Digital Implementation of Optimal Type-III Controller Based on Jaya Algorithm for Interleaved Boost Converter	Shantanu Konde, D. S. More,	IEEE conference Coimbatore India	11th and 12th July 2018
10.	International Conference	Fault Diagnosis and Fault-Tolerant Techniques for Switching Power Converters: A Review	Satyawan Jagtap and Dagadu More,	ICRIEECE Bhubaneswar, India.	July 27th & 28th 2018
11.	International Conference	A Buck-Boost Common-Mode Transformer less Inverter for Photovoltaic Applications	Komal H. Nanwani, Dagadu S. More	IEEE-PEDES-18 IIT Madras India	18-21 Dec 2018
12.	International Conference	Design of PID controller and Internal Model Control Scheme on a DC-DC Boost Converter	Poonam D. Hegannawar, Nitinkumar Patel	IEEE conference IIT Madras India	18-21 Dec 2018
13.	International Conference	System Identification of a Temperature Control Process using Open Loop and Closed Loop methods	Nupoor Patil, Rishikesh G. Datar, Dr. D.R. Patil	ICCMC 2018	2018

## Mathematics Department

SN	Type of Publication	Details of Paper	Name of Author	Journal/Conference Details	Date of Publication
1.	International Journal	Coefficient estimates for certain subclass of bi-univalent functions associated with Chebyshev polynomial	Dr. S.B. Joshi And Ms. Girgaonkar V.B.	Ganita, 68 (1) 2018 79-85	2018
2.	International Journal	Certain sub class of analytic functions involving integral operator defined by polygarthmic functions Mathematics	Dr. S.B. Joshi	Ganita, 66 dol 10.3390/math/7010066	2019
3.	International Journal	Certain sub class of Univalent functions with negative coefficients defined by using Al-Oboudi differential operator	Dr. S.B. Joshi	International Journal of Research and Analytical Reviews 6(1), 2019 75-81	2019
4.	International Journal	A subclass of analytic functions associated with hypergeometric functions	Dr. S.B. Joshi	Sahand Communications in Math Anal 14(1), 2019, no 199-210	2019
5.	International Journal	On a subclass of meromorphically starlike functions with two fixed positive coefficients, J.Math and computer science	Dr. S.B. Joshi	J Math and Computer Science 18(2018) 242-247	2018
6.	International Journal	Applications of generalised fractional integral operators to unified subclass of prestarlike functions with negative coefficients	Dr. S.B. Joshi	Studia Babes Bolyai Math, 63 (2018) No, 59-69	2018
7.	International Journal	Coefficients Bounds for New Subclasses of Bi-Univalent functions associated with pseudo-Statlike Functions	Dr. S.B. Joshi and Ms. Girgaonkar V.B.	Studia Babes Bolyai Math, 63 (2018) No 79-85	2019

## Google Scholar Citation Details

Name of Faculty	Designation	Google Scholar					
		2014 Onwards			All		
		Citations (since 2014)	h-Index	i-10 Index	Citations	h-index	i-10 index
Dr. Dabade Uday A.	Professor	467	10	12	685	11	12
Dr. Joshi S.B.	Asso. Prof.	237	9	9	511	13	15



Dr. Munavalli G.R.	Professor	177	7	5	409	8	6
Dr. Subaraman S.S	Professor	203	8	8	280	11	11
Dr. Ruikar S.D.	Asso. Prof.	229	7	5	285	7	6
Dr. Parishwad G.V.	Professor	155	8	7	229	9	8
Dr. Kulkarni P.J.	Professor	148	7	5	196	8	8
Dr. More D. S.	Professor	153	6	3	194	7	6
Dr. Umbarkar A.J.	Asst. Prof.	204	8	7	217	8	7
Dr. S.N. Tande	Professor	99	5	3	107	5	3
Dr. Momin B.F.	Asso. Prof.	106	6	2	143	7	4
Dr. Agashe Amrita A.	Asso. Prof.	57	5	2	76	5	3
Dr. Inamdar Kedar H.	Asso. Prof.	130	7	3	150	7	4
Dr. Gawali B.S.	Professor	47	3	1	64	5	1
Dr. Kulkarni D.B.	Professor	55	4	1	70	5	2
Mrs. Chougule A.M.	Asst. Prof.	50	2	1	51	2	1
Dr. Dharmadhikari V. B.	Asso. Prof.	58	4	3	68	5	3
Dr. Vaidya A.P.	Professor	67	5	3	73	5	3
Mr. Tamhankar S.G.	Asst. Prof.	32	3	1	36	4	1
Mr. Mane Pravin A.	Asst. Prof.	33	4	0	35	4	1
Dr. Sapkal Sagar U.	Asso. Prof.	127	6	4	136	6	4
Dr. Sonavane S P	Asso. Prof.	40	3	1	43	3	1
Mr. Narnaware M B	Asst. Prof.	35	2	1	35	2	1
Mrs Diwan Seema P	Asst. Prof.	10	2	0	10	2	0
Mrs Karvekar Aditi S.	Asst. Prof.	22	3	0	24	3	0
Dr. A. M. Gadade	Asso. Prof.	20	3	0	21	3	0
Mrs. Sharwari S Solapure	Asst. Prof.	22	2	1	22	2	1
Mr. Anil Surve	Asst. Prof.	45	3	1	45	3	1
Mr R M Chanmanwar	Asst. Prof.	15	1	1	15	1	1
Mr. Karvekar Sushil S.	Asst. Prof.	14	2	0	15	3	0
Mrs. Shah M.A.	Asst. Prof.	22	3	0	26	4	0
Dr. Kore S. N.	Asso. Prof.	8	2	0	14	2	0
Dr. Deshpande Shradha S	Professor	26	4	0	31	4	0
Dr. Patil B. G.	Asso. Prof.	11	3	0	15	3	0
Dr. Rathod R R	Asst. Prof.	12	1	1	12	1	1
Mrs Shetty B.S.	Asst. Prof.	12	2	0	17	2	0
Mr. Chavan Manik K.	Asst. Prof.	13	2	0	14	2	0
Mr. Naik Babaso N	Asst. Prof.	2	1	0	2	1	0
Dr. Khot Maruti M	Asst. Prof.	6	1	0	6	1	0
Mr. Gaikwad Vishal R	Asst. Prof.	1	1	0	1	1	0
Mr. S. M. Arali	Asst. Prof.	4	1	1	4	1	1

#### Ph.D. Details of Regular Degree Faculty

SN	Name of Student	Department	Name of Guide, Branch	Date of Registration/Uni	Title of the Thesis	Status: Ongoing/ Completed on
1	G.V. Parishwad	Director, Prof. Mech.	Dr. R.K. Bhardwaj & Dr. V.K. Nema (Mech-Thermal)	11 Aug 1995 MNNIT, Allahabad under QIP	Study of thermal performance of fenestration and prediction of related weather parameters for India	submitted 02 Oct 1998 Viva & Result 27 Oct 1999

2	P.J. Kulkarni	Dy. Director Prof. CSE	Dr. N.R. Phadnis (Electronics)	June 1988 SU, Kolhapur	Bandwidth compression of Video sig digital techniques	Completed in Aug. 1993
3	K.S. Wagh	Prof. Civil	Dr. V.S. Chandrasekaran	Aug. 1987 IIT, Bombay	Finite element studies on mechanics of Geotextiles reinforced earth for Shallow foundation.	Submitted March 1993 Viva & result 09 May 1994
4	P.G. Sonawane	Prof. Civil	Dr. S.V. Ranade	7 Jan 2003	Mechanism & Kinetics of Nitrogen & Phosphorus Removal in Root Zone Treatment of Domestic Waste	Completed 4 July 2008
5	S.N. Tande	Prof. Civil - APM	Dr. K.T. Krishnaswamy	July 2000 SU, Kolhapur	Elastic and Limit analysis of Reinforced Concrete Skew slabs	19 Sept 2005
6	V.D. Salkar	Asso. Prof. Civil	Dr. A.R. Tembhurkar, Visvesvaraya	01 July 2009 VNIT, Nagpur	Design and development of efficiency up-flow sand filter for water treatment	27 Sept 2015
7	G.R. Munawali	Asso. Prof. Civil	Dr. M.S. Mohan Kumar, Civil Engg.	1st August, 1999 QIP IISc, Bangalore	Simulation and Parameter Estimation of Water Quality in Distribution System	Submitted 31 July 2002 Result 22 Mar 2003
8	K.S. Gumaste	Asso. Prof. Civil	Dr. K.S. Jagdish, Dr. B.V.V. Reddy, K.S.Nanjund Rao, Civil Engg.	1 Aug 2000 IISc, Bangalore QIP	Strength and Elasticity of Brick Masonry Walls	Submitted 11 Jan 2004 Result 8 Jan 2005
9	C.B. Pol	Asst. Prof. Civil -APM	Dr. Saurik Banerjee	15 Oct 2010 IIT, Bombay	Modeling of divided wave propagation and its interaction with defects in composites and sandwich structures	submitted July 2015
10	Mrs. N.G. Kulkarni	Asst. Prof. Civil-APM	Dr. Yoshito Itoh	03 Oct 2007 Nagoya Uni., Japan	Seismic design methodology for circular steel bridge piers subjected to multi directional earthquake motions	Completed 31 July 2012
11	S.B. Kadam	Asst. Prof. Civil-APM	Dr. Y. Singh	2010-11 IIT, Roorkee	Performance Evaluation and Retrofit of Masonry Buildings	Submitted Jan-2015, Result 4 Aug 2015
12	B.S. Gawali	Prof. Mech.	Dr. K.G. Narayan Khedkar	July 1999 IIT, Bombay	Design and Development of pulse tube nitrogen liquefier	Sept. 2005
13	U.A. Dabade	Prof. Mech.	Dr. S.S. Joshi	July 2004 IIT, Bombay	Machining of metal matrix composites	May 2008
14	K.H. Inamdar	Asso. Prof. Mech.	Dr. S.G. Joshi	Sept. 2003 Shivaji Uni., Kolhapur	Some studies on analysis of surface quality of flat metal surfaces using image processing techniques	Dec. 2006 Result June 2007
15	S.U. Sapkal	Asso. Prof. Mech.	Dr. Dipak Laha	August 2009	Improved Heuristics for manufacturing scheduling	Sept. 2013
16	M.M. Khot	Asst. Prof. Mech.	Dr. B. S. Gawali (Mech - HPE)	1 January 2008 SUK	Design and development of a flexure bearing for miniature linear compressor	submitted 24 July 2014 Viva & result 7 May 2015
17	A.P. Vaidya	Prof. Electrical	Dr. M.N. Narayanadar	01.08.1998 IISc, Bangalore	A model study for the application of wavelet and Neural Network	Completed 14 Oct 2001

					for Identification and localization of partial discharges in transformers	
18	D.R. Patil	Asso. Prof. Electrical	Dr. U. Gudar, Kolhapur	WCES, Shivaji Uni., Kolhapur	Error adaptive RPC scheme for LT & HT Switched capacitor bank & Static var Compensator at 11 kV substation.	May 2012
19	D.S. More	Asso. Prof. Electrical	Dr. B.G. Fernandes	July 2005 IIT, Bombay	Design and Analysis of three phase Flux reversal machine for rooftop wind power application	20 Oct 2010
20	M.M. Waware	Asst. Prof. Electrical	Dr. Pramod Agrawal (Power Electronics)	02.08.2008 IIT, Roorkee	Multilevel inverter based activity power filter	24 April 2012
21	Mrs. S.S. Deshpande	Prof. Electronics	Dr. S.C. Patwardhan	July 2005	Computationally efficient model based control for fast dynamic systems	Completed 15 Sept 2010
22	Mrs.A.A. Agashe	Asso. Prof. Electronics	Dr. S.K. Bodhe	Nov. 2003 Shivaji Uni, Kolhapur	Mobility management in Adhoc networks; A special reference to handoff mechanism.	Completed July 2009
23	S.D. Ruikar	Asso. Prof. Electronics	Dr. D.D. Doye	22 Nov 2006 SGGs, Nanded	Image Denoising using wavelet transform	Completed 22 Mar 2013
24	B.G. Patil	Asso. Prof. Electronics	Dr. Shaila Subbaraman	12 July 2006	Human Feature Vector and Classifier Through Iris Pattern Recognition	Completed 24 July 2015
25	V.B. Dharmadhikari	Asso. Prof. Electronics	Dr. P. J. Kulkarni	27 Sept 2012	Quality of service issues, formulation and performance evaluation of traffic smoothing techniques for mpeg video transmission in packet switched networks	Completed 22 July 2015
26	B.F. Momin	Asso. Prof CSE	Dr. Susmita Mitra	Jan. 2002 Jadhavpur Uni.(IIT, Kolkata)	Some issues in data mining using soft computing	Completed 08 Feb 2008
27	D.B. Kulkarni	Prof. IT	Dr. P.J. Kulkarni	Feb. 1999 WCE, Sangli	Iterated formation system for image coding	Completed Sept 2005
28	Mrs. S.P. Sonawane	Asso. Prof IT	Dr. S.M. Deshpande (CSE)	01 Jan 2005 SU, Kolhapur	Capacity estimates, analysis and design of improved data hiding algorithms in compressed images	10 Nov 2010
29	A.J. Umbarkar	Asst. Prof. IT	Dr. Mrs .M.S. Joshi	June 2010 GCE A'bad	Design and Analysis of Multi-Population Genetic Algorithm (MPGA) on Multi-core system for Function Optimization	submitted June 2015
30	M.H. Pendse	Asso. Prof Chemistry	Dr. S.H. Pawar	Mar. 1990 SU, Kolhapur	Studies on Electrodeposited Dy-Ba-Cu-O H.Tc. super conducting films and their characteristics	July 1993
31	S.B. Joshi	Asso. Prof Mathematics	Dr. S.R. Kulkarni Complex-analysis	1 July 1991	A study of univalent and multivalent functions	Completed 1996

32	R.P. Hasabe	Asst. Prof. Electrical	Dr. A.P. Vaidya,	July 2010 WCE, Sangli	Development of a method to mitigate the Effects of stat-com on the distance protection scheme using wavelet transform and neural network	Completed - May 2017
33	R.R. Rathod	Asst. Prof. IT	Dr. R. D. Garg Civil,	12 July 2013, IITR, (QIP)	Application of GIS and Data Mining methods for Electricity consumption profiling.	Completed 2017

#### Regular Degree Faculty Ongoing Ph.D. details

SN	Name of Student	Department	Name of Guide, Branch	Date of Registration/Uni	Title of the Thesis	Status: Ongoing/ Completed on
1	A.K. Kokane	Asst. Prof. Civil	Dr. K.S. Gumaste,	01 July 2011 WCE, Sangli Shivaji University, Kolhapur	Studies on improvement in the quality of burnt clay bricks using water treatment residual sludge	Ongoing
2	A.K. Mali	Asst. Prof. Civil	Dr. Prakash Nanthagopalan,	12 July 2013 IIT, Mumbai	Utilization of sugar cane bagasse ash in concrete	Ongoing
3	B.N. Naik	Asst. Prof. Mech	Dr.Mrs. Sangita Kohali	24 July 2014 IIT, Delhi	Biomass cookstove study (Area of Study)	Ongoing
4	S.V. Gaikwad	Asst. Prof. Mech.	Dr. R.S. Mulik ,	9 July 2014 IIT Roorkee	Performance study of predrilling tool for deep annular grooving	Ongoing
5	A. U. Paranjape	Asst. Prof. Mech.	Dr. S.S. Kulkarni,	2011-12 IIT, Mumbai	Optimal balancing of rotors in presence of uncertainties	Ongoing
6	A.P. Patil	Asst. Prof. Mech.	Dr. S.P. Chavan,	01 July 2011 WCES, Shivaji Uni, Kolhapur	Study of static and dynamic behavior of helical compression spring with continuously varying wire diameter	Ongoing
7	A.B. Patil	Asso. Prof. Electrical	Dr. R.H. Chile,	2013-14 SGGS, Nanded	Some techniques in developments of robust optimal control using fuzzy logic approach	Ongoing
8	N.V. Marathe	Asso. Prof Electronics	Dr. U.B. Desai	21 July 2005 IIT, Bombay	Opportunistic scheduling in cellular data networks	Ongoing
9	S.G. Tamhankar	Asso. Prof Electronics	Dr. F.S. Kazi, VJTI, Mumbai	27 July 2012	Area: Cyber physical system security	Ongoing
10	A. R. Surve	Asst. Prof. CSE	Dr. Vijay R. Ghorpade, DYPCOEK	11 Feb 2014 SUK	Design and development of adaptive Multi-Platform Context Aware Pervasive System Framework	Ongoing
11	N.L. Gavankar	Asst. Prof. CSE	Dr. S. K. Ghosh Civil Engg	9 July 2014 IIT Roorkee	Object detection/Extraction using multi spatial resolution satellite data	Ongoing
12	Mrs. M.A. Shah	Asst. Prof. CSE	Dr. D.B. Kulkarni,	2011-12 WCES, Shivaji Uni, Kolhapur	Investigation on design issues and performance analysis of parallel scalable high performance publish subscribe system	Ongoing

13	P.K. Kharat	Asst. Prof. IT	Dr. Murlidhar Kulkarni (E&C Dept.)	July 2015 NIT, (QIP) Suratkal	Area of study: Wireless communication & Networking	Ongoing
14	U.B. Chavan	Asst. Prof. IT	Dr. D.B. Kulkarni,	2012-13 WCES, SUK	Design & performance issues in parallel scalable facial expression recognition system	Ongoing
15	K.V Madhale	Asso. Prof. Physics	Dr. M.Y. Salunkhe	13 Jan 2012 Synthesis,	Characterization and Gas Sensing Behavior of Nano-crystalline Nickel Ferrite	Ongoing
16	B.N. Jamadar	Asst. Prof. Physics	Dr. D.S. Sutrave	01 July 2010 Design	Design and Development of PWM Technique for Three Phase Induction Motor Drive with auto fault detection	Ongoing

## Ph.D. Student Details

### 1) Civil Engineering Department

SN	Name of Student	Name of Guide	Date of Registration	Title of the Thesis	Status
1	Tirthkar S.N.	Dr. B.Subbarao	01/01/2001	Study on use of synthetic filter media in coarse to fine filtration	Completed 13th Oct., 2007
2	Mali D. S.	Dr. S.V.Ranade	01/01/2003	Waste Minimization & Resource Recovery in Sugar Distillery Complex	Ongoing
3	Sonavane P. G	Dr. S.V.Ranade	07/01/2003	Mechanism & Kinetics of Nitrogen & Phosphorus Removal in Root Zone Treatment of Domestic Waste	Completed 4th July 2008
4	Kulkarni G. S.	Dr. S.V.Ranade	01/01/2004	Investigations in Processing Solid & Liquid Waste from Essential Oil Industry for Possible Productive Recovery, Recycling & Treatment	Completed 28th Dec. 2007
5	V. T. Gaikwad	Dr. G.R. Munavalli	01/07/2011	Study on water softening by natural materials	Ongoing
6	S.S. Mane	Dr. G.R. Munavalli	01/07/2011	Studies on Modeling and Treatment of Common Textile Effluent Using Anaerobic and Aerobic Sequential Batch Reactor	Ongoing
7	R.M. Garud	Dr. G.R. Munavalli	01/07/2011	Study on dewatering and stabilization in sludge treatment vermi constructed wetlands	Ongoing
8	S.B. Hivarekar	Dr. G.R. Munavalli	01/07/2011	Study on water treatment by clay filter impregnated with natural materials	Ongoing
9	Y.M. Patil	Dr. G.R. Munavalli	01/07/2011	Performance Evaluation of Low-cost Greywater Treatment Systems	Ongoing

10	A.K. Kokane	Dr. K.S. Gumaste	01/07/2011	Studies on improvements in the quality of burnt clay bricks using water treatment residual sludge	Ongoing
11	Mrs Jyoti P. Bhusari	Dr. K.S. Gumaste	01/07/2011	Studies on characterization of reactive powder concrete for strengthening of beam column joints in RC beams	Ongoing
12	Desai Ravindra Shashikant	Dr. S.N. Tande (Civil-Structure)	12/09/2012	Improvement in structural performance in buildings by optimization of energy Management devices	Ongoing
13	Patil Vishwas Shamrao	Dr. S.N. Tande (Civil-Structure)	12/09/2012	Probabilistic based seismic performance Evaluation of existing reinforced Concrete buildings and retrofitting strategy	Ongoing
14	Patkure Laxman Bhouso	Dr. S.N. Tande (Civil-Structure)	12/09/2012	An experimental investigation on structural behavior and durability properties of fiber Reinforced concrete with artificial sand	Ongoing
15	Dali Jitendra Shridhar	Dr. S.N. Tande (Civil-Structure)	11/12/2013	Durability performance and analysis of pavement quality concrete(pqc) with mineral admixtures	Ongoing
16	Desai Ravindra Matuti	Dr. S.N. Tande (Civil-Structure)	11/12/2013	Nonlinear seismic reliability and fragility analysis of steel- concrete composite structures	Ongoing
17	Narvekar Siddhesh P.	Dr. S.N. Tande (Civil-Structure)	11/12/2013	Innovative utilization of dimensional analysis to find out strength of concrete strength of soil using modified Buckingham's – pi method	Ongoing
18	S.S. Shah	Dr. G.R. Munavalli	01/07/2015	Performance Evaluation of Moving Bed Biofilm Reactor (MBBR) in Sequential Batch Mode for Domestic Wastewater Treatment	Ongoing

## B) Mechanical Engineering Department

SN	Name of student	Name of Guide	Date of Registration	Title of Thesis	Status- Completed or Ongoing
1	S. G. Bhatwadekar	Dr. M. Y. Khire (Relieved)	—	Studies on approaches for optimization of batch production scheduling	Submitted on 10 June 2013
2	S. H. Sawant	Dr. Tamboli	1 Jan 2005	Vibration analysis of active and semi active suspension system subjected to random road excitation with time delay and non-linear parameters	Completed
3	S.S. Patil	Dr. B.S. Gawali (Mech.-HPE)	26 Dec 2013	Design and development of miniature coaxial pulse tube Cryo-cooler	Submitted 26 Dec 2013
4	M. M. Khot	Dr. B. S. Gawali (Mech- HPE)	1 Jan 2008	Design and development of a flexure bearing for miniature linear compressor	Completed
5	D. A. Kamble	Dr. B. S. Gawali	—	Analysis of heat transform micro channel under forced convection heat transfer condition	Submitted

6	S. A. Patil	Dr. S. G. Joshi (Retd)	—	Some theoretical and experimental studies on electro hydraulics activate suspension system on road vehicle	Completed
7	A. P. Bagwade	Dr. P. G. Ramdasi (Retd)	—	Some studies on chip flow cutting process and surface roughness in hard turning	—
8	Kumar D. Sapate	Dr. A. N. Tikekar (Retd)	—	Electronically controlled direct injection type modified small two stroke petrol engine for efficiency and low emission	—
9	V.B. Swami	Dr. B.S. Gawali (Mech.-HPE)	1 July 2011	Investigation of heat transfer characteristics through noncircular micro channel heat sink	Ongoing
10	P.A. Mane	Dr. B.S. Gawali (Mech.-HPE)	1 July 2011	Design and development of counter flow Pulse tube refrigerator.	Ongoing
11	J.D. Patil	Dr. B.S. Gawali (Mech.-HPE)	1 July 2011	Experimental study of heat transfer and fluid Flow analysis of oscillating flow in Micro-channel.	Ongoing
12	Manjit Khade	Dr. S.P. Chavan (Mech.-Design)	1 July 2011	Dynamic analysis of structural beam for Vehicle to reduce vibration by using viscoelastic material & Magneto-rheological fluid damping	Ongoing
13	P.B. Magade	Dr. S.P. Chavan (Mech.-Design)	1 July 2011	Design and development of wind power Turbine by harvesting wind energy Developed by road vehicles on highway	Ongoing
14	G.S. Kamble	Dr. B.S. Gawali (Mech.-HPE)	1 July 2011	Investigation of heat transfer characteristic for Non-Newtonian fluid in screw heat exchanger	Ongoing
15	Vilas Hajare	Dr. B.S. Gawali (Mech.-HPE)	1 July 2011	Enhancement of latent heat energy storage Using nanoparticle in phase change material	Ongoing
16	Sunil Raikar	Dr. Uday A. Dabade (Mech.-Prod)	July 2012	Effect of high-pressure coolant (HPC) On surface integrity of Inconel 718 in Turning operation	Ongoing
17	B. A. Anuse	Dr. S.P. Chavan (Mech.-Design)	1 Feb 2012	Design and development of a bagasse dryer to increase thermal efficiency of sugarcane Power plant	Ongoing
18	A. S.Bhandare	Dr. Uday A. Dabade (Mech.-Prod)	2 May 2013	Effect of dry EDM on surface integrity of inconel-718	Ongoing
19	M.R. Jadhav	Dr. Uday A. Dabade (Mech.-Prod)	22 Apr 2013	Analysis of surface integrity of AL/SICP Metal matrix composites in hot machining	Ongoing Thesis Submitted SUK
20	Vinod Vanmore	Dr. Uday A. Dabade (Mech.-Prod)	26 Aug 2013	Development and performance analysis of micro abrasive jet machining Process	Ongoing

21	S.S Karidkar	Dr. Uday A. Dabade (Mech.-Prod)	01 July 2013	Experimental investigation on effect of Process parameters on performance Measures in wire electrical discharge Machining	Ongoing Thesis Submitted SUK
22	S.M. Shinde	Dr. S.P. Chavan/ Tamboli (Mech.-Design)	26 Mar 2013	Optimum design of supply chain for medium Scale industry to enhance productivity	Ongoing
23	A.M. Pirjade	Dr. S.P. Chavan/ Tamboli (Mech.-Design)	22 Apr 2013	Optimum design of asymmetric involute Helical gear for better dynamic Performance	Ongoing
24	S.B. Kumbhar	Dr. S.P. Chavan/ Tamboli (Mech.-Design)	01 July 2014	Performance studies of tilting pad thrust bearing with some single continuous surface profile	Ongoing Thesis Submitted SUK
25	Ms. L.V. Kulkarni	Dr. Sagar U. Sapkal	07 Oct 2014	Met Heuristic approach to manufacturing schedule	Ongoing
26	A. R. Shinge	Dr. Uday A. Dabade (Mech.-Prod)	06 Apr 2015	Experimental investigation and validation of process parameters in micro-milling of aluminum alloy micro channels	Ongoing
27	Nikhil Jayant Padte	Dr. Uday A. Dabade (Mech.-Prod)	06 Apr 2015	Tool path optimization to improve Productivity and quality in machining of Die steel material using CNC end milling	Ongoing
28	S.P. Nangare	Dr. B.S. Gawali (Mech.-HPE)	15 July 2017	Development and Testing of Multi-Pulse Tube Cryocooler by using Oil Free Compressor	Ongoing
29	Ms. S.K. Darekar	Dr. Sagar U. Sapkal (Mech.-Prod)	1 April 2018	Investigation of Part Characteristics using Additive Manufacturing Process for Comparative Study	Ongoing
30	Prateek Deoman Malwe	Dr. B.S. Gawali (Mech.-HPE)	31 July 2018	Energetic and Exegetic Assessment of a Cold Chain System for an Agricultural Product - Raisins	Ongoing
31	Mahmadrafik Sajjadahmad Choudhari	Dr. B.S. Gawali (Mech.-HPE)	04 August 2018	Heat Transfer and Fluid Flow Analysis of Oscillating Flow Heat Exchanger - Pulse Tube Refrigerator	Ongoing

### 3) Electrical Engineering Department

SN	Name of Student	Name of Guide	Date of Registration	Title of the Thesis	Status
1	Apte Naryan G.	Dr. V.N. Bapat		Design analysis and implementation of Voltage source inverter-based power quality conditioner	Completed (Submitted 21.06.2012)
2	Hasabe R.P.	Dr. A.P. Vaidya	01/07/2010	Development of a method to mitigate the Effects of STATCOM on the distance protection scheme using wavelet transform and neural network	2017



3	Thanekar S.J.	Dr.A.P.Vaidya (Co-Guide) Main Guide: Dr. W.Z. Gandhare	01/07/2010	Study of Voltage Stability of a Transmission System By Phasor Measurement Unit	Unkown
4	Wankhade C.M. (Registered at Amravati Univ.)	Dr. A.P. Vaidya	15/01/2010	A study for application of genetic algorithm based optimal power flow algorithm for congestion management in deregulated Indian power industry	Thesis submitted to Amravati Univ.
5	Saoji B.P. (Registered at Amravati Univ.)	Dr. A.P. Vaidya	15/01/2010	A comparative study for the reliability evaluation of composite electric power systems incorporating thyristor controlled series capacitor (tcsc)	Thesis corrections in progress
6	Shri L. S. Patil	Dr. A. P. Vaidya	01.07.2010	A study for application of wavelets and neural networks to identify and locate the faults in ehv transmission lines	Ongoing
7	Modak Amit Jayant	Dr. H.P. Inamdar	10/09/2013	Ann based simulation model for the detection of unbalance in stator current of cage Rotor induction motor drive caused by the degradation of insulation of stator winding, Using park's vector approach	Ongoing
8	Thombare R.D.	Dr. D.S. More, Dr. A.P. Vaidya	15.07.2013	Design, Analysis and control of Bidirectional power converter for hybrid Ac/Dc Microgrid system	Ongoing

#### 4) Electronics Engineering Department

SN	Name of Student	Name of Guide	Date of Registration	Title of the Thesis	Status: Ongoing/ Completed on
1	B. G. Patil	Dr. Shaila Subaraman	2005	Human feature vector and classifier through iris pattern recognition	June 2015
2	Mrs. Lalita Admuthe	Dr. Mrs. S. D. Apte	2006	An Intelligent optimization model for cotton mixes yarn spinney	2012
3	Mrs. Manasi Patil	Dr. A. R. Yardi	2009	ANN based diagrams of neurodegenerative diseases	2013
4	Prasad Khandekar	Dr. Mrs. S. Subbaraman	2007	Low power digital design using energy recovery adiabatic logic	Jan. 2013
5	Mrs. Sheetal Bhandar	Dr. Mrs. S. Subbaraman	2008	Performance enhancement using reconfigurable device for real time computation intensive application	March 2013
6	Mrs. Jayashri Vaddil	Dr. Mrs. S. Subbaraman	28 Dec 2007	Weaved fabric defect detection using & image processing techniques	Completed on Sept. 2013
7	Mrs. Manisi R. Dixit	Dr. Mrs.S.D. Apte	1 July 2006	A generalized framework for speech enhancement An recognition with special focus on patients with speech disorders	2014 (Submitted 21 July 2012)
8	D.V. Kodavade	Dr. Mrs.S.D. Apte		Object oriented concurrent fault diagnostic systems For microprocessor configuration.	2014
9	Mrs. Badrayani Angha Khedkar	Dr. Mrs. S. Subbaraman	28 Dec 2007	Effect of variations in genetic operators and proposed ovel operator on the performance of genetic algorithm	Completed on Dec 2014

11	Vinayak V. Sulakhe	Dr. Mrs.S.D. Apte	1 Jan 2006	Development of efficient routing protocols for Application specific wireless sensor networks	April 2016
12	K. Shirdhar	Dr. Mrs.S.D. Apte		New signal processing techniques for hearing aids	Submitted 23 Dec 2011
14	Mrs. Jaysree Rudaji	Dr. Mrs. S. Subbaraman	2007	Low power COR D/C processor for DCT and ICDT	Submitted
15	W.T. Gundale	Dr. A.R. Yaradi	July 2000	Study simulation and analysis of some of the design issues related to binds 1) congestion control 2) bandwidth on demand simulation of mpeg traffic binds 3) issued related to satellite based binds	
16	R.N. Patil	Dr. Mrs. S. Subbaraman	28 Dec 2007	Power efficient pipeline and parallel architecture for High through put digital system	Ongoing
17	Manish Patil	Dr. Mrs. S. Subbaraman	2008	Development of Complete Design Environment for Implementing Speed and Area Efficient Single Chip Process Controller using Programmable Logic Devices with Ladder Diagram Description	Ongoing
18	Mrs. S. S. Sankpal	Dr. Mrs. S. S. Deshpande	2012	Under water image processing	Ongoing
19	Mrs. Anjali Ramesh Patil	Dr. Mrs. S. Subbaraman	1 Mar 2012	Spatiotemporal vision based view and illumination Invariant hand gesture recognition approach	Ongoing
20	Ms. Sonali Desai	Dr. Y.V. Joshi	3 Mar 2012	Image enhancement and colour correction of Underwater optical images	
21	Ravi Khamitkar	Dr. Mrs. Shaila Subbaraman	01 July 2012	Design and performance evaluation of on chip Antenna for wireless network on chip	Ongoing
23	Mrs. Deepali Loni	Dr. Mrs. Shaila Subbaraman	01 July 2012	Analysis /synthesis of acoustic features of singing Voice using in wavelet transform with special Reference to singer identification	Ongoing
24	Rajan Devi	Dr. Mrs. Shaila Subbaraman	01 July 2012	Development of hierarchical control for micro-grid And its performance evaluation	Ongoing
25	Saurabh R. Prasad	Dr. Y.V. Joshi	14 Sept 2012	Improved LMS algorithm for signal processing Applications	Ongoing
26	Mrs. Jadhav Tejaswi Mahaling	Dr. Mrs. S. S. Deshpande	2014	Antenna Design (Area of Study)	Ongoing
27	Sandip Kasar	Dr. S. D Ruikar	1 Jan 2014 UoP	Effective DE mosaicking for Video Reconstruction	Ongoing
28	C.A. Ghuge	Dr. S. D Ruikar	1 Jan 2014 UoP	Design and Development of technique for video object retrieval using Spatiotemporal based trajectory identification.	Ongoing
29	Sajed Mulla	Dr. Mrs. S. S. Deshpande	1 Aug 2015	Design of Miniaturized Micro strip Antenna for Efficient Multiband Mobile Communication	Ongoing
30	Ms Mrunmayi Dethankar	Dr. S. D. Ruikar	2018	Development of Video super resolution algorithm in wavelet domain using neural network	In progress

## 5) CSE and IT Engineering Department

SN	Name of Student	Name of Guide	Date of Registration	Title of the Thesis	Status
1	Shri. Sirbi Kotrappa	Dr. P. J. Kulkarni	June 2006	Investigation into the evolutionary expects object-oriented programming (opp)	Completed on 25.08.2015

2	Mr.Kulkarni M V	Prof.Dr.D.B.Kulkarni	22-02-2010	Fractal video Coding on Multicore	Ongoing
3	Mr.Nozir Tarapore	Prof.Dr.D.B.Kulkarni	02-03-2011	Intrusion Detection System	Ongoing
4	Sandeep A Thorat	Dr. P. J. Kulkarni	27/02/2012	Techniques for improvements in magnet data Routing protocols.	Completed
5	Manwade Karveer Bhairu	Dr. D B. Kulkarni	27/02/2012	Improving performance of MPI application Through optimal placement of processes	Ongoing
6	Uday Appaso Nuli	Dr. B.F. Momin	27/02/2012	Parallelization of sequential code for Distributed heterogeneous architecture	Ongoing
7	Kulkarni Rupali Deepak	Dr. B.F. Momin	27/02/2012	Advanced skyline computation in distributed environment.	Ongoing
8	Tanveer I. Bagban	Dr. P. J. Kulkarni	27/02/2012	Design and analysis of a system for template Based clustering of web pages.	Ongoing
9	Abhyankar Parag Prabhakar	Dr. B.F. Momin	27/02/2012	Characterization of non- vigilance of individual Or mass Ounce in monotonous environment	Ongoing
10	Mrs. Mamata Sachin Kalas	Dr. B.F. Momin	27/02/2012	Study and implementation of advanced Neuro-imaging techniques.	Ongoing
11	Mrs. Medha A Shah	Dr. D B. Kulkarni	27/02/2012	Design and performance evaluation of parallel scalable event processing system.	Completed
12	Mrs. Sheetal A. Takale	Dr. P. J. Kulkarni	27/02/2012	Web content mining in the framework of soft computing.	Completed
13	Bhagate Suhas	Dr. P. J. Kulkarni	27/02/2012	Development of secret sharing scheme using Extended visual cryptography.	Ongoing
14	Mrs. Chaitali A. Laulkar	Dr. P. J. Kulkarni	25/02/2013	An improved classification algorithm for Image data	Ongoing
15	Chavan Umesh Balkrishna	Dr. D B. Kulkarni	25/02/2013	Design & performance issues in parallel Scalable facial expression recognition system	Ongoing
16	Ms. Gitanjali S. Salunkhe	Dr. D B. Kulkarni	25/02/2013	Benchmark validation and profiling of Heterogeneous HPC platform.”	Ongoing
17	Ms. Deepali D. Akolkar	Dr. D B. Kulkarni	25/02/2013	Predictive analysis of very large unstructured data on parallel platform	Ongoing
18	Prashant Maruti Yelmar	Dr. B.F. Momin	25/02/2013	Development of computational framework for Social network analysis & mining	Ongoing
19	Shri. Ajit S. Patil	Dr. P. J. Kulkarni	17/7/2013	Use of social relations in delay tolerant networks	Ongoing
20	Sayyad Suhel Shabbirhusain	Dr. D B. Kulkarni	11/02/2014	Design And Development Of Secure Neural Network Learning System On Many Enabled Hpc In Cloud	Ongoing
21	Mrs. A.P.Kale	Dr. S.P. Sonavane	2014-15	Image Processing and Cellular Automata	Ongoing

22	Mr. S.S.Patil	Dr. S.P. Sonavane	2014-15	Big Data	Ongoing
23	Mr.A.R.Babhulgaonkar	Dr. S.P. Sonavane	2015-16	Human Computer Interaction	Ongoing
24	Mrs.Arifa Tamboli	Dr. S.P. Sonavane	2015-16	Network Security	Ongoing
25	Mr. B. S. Yelure	Dr. S.P. Sonavane	June 2017	ADHoc N/w	Ongoing
26	Mrs. S. B. Nemade	Dr. S.P. Sonavane	June 2017	Computer Vision	Ongoing

## 6) Maths Department

SN	Name of Student	Name of Guide	Date of Registration	Title of the Thesis	Status
1	Shelake Girish D.	Dr S.B.Joshi	01-07-2010	Study of subclasses of harmonic univalent and related functions	Ongoing
2	Thorat S.P	Dr S.B.Joshi	01-07-2011	Study of univalent and related functions	Ongoing
3	Yadav P.P	Dr S.B.Joshi	01-07-2013	Study of certain subclasses of analytic functions	Ongoing
4	Pawar H.H	Dr S.B.Joshi	01-07-2013	The study of subclasses of univalent functions	Ongoing
5	Mrs. V.B. Gigoankar	Dr. Santosh Joshi	07-01-2018	Study of certain subclasses of Analytic and biunivalent functions	Ongoing

### Details of QIP Candidates Working at WCE:

Walchand College of Engineering, Sangli is selected as QIP Minor Research Centre from June 2013.

SN	Name of Student	Department	Name of Guide, Branch	Date of Registration/Uni	Title of the Thesis	Status: Ongoing/ Completed on
1	Ajit Samagonda Patil	Computer Science & Engineering	Prof. Dr. P. J. Kulkarni	15th July 2013	Design and Development of Routing Algorithm for Delay Tolerant Networks	On-going
2	Sunil S. Karidkar	Mechanical Engineering	Prof. Dr. U. A. Dabade	15th July 2013	Experimental Investigation on Effect of Process Parameters on Performance Measures in Wire Electrical Discharge Machining	On-going
3	Raosaheb D. Thombare	Electrical Engineering	Prof. Dr. A. P. Vaidya	16th July 2013	Design Analysis and Control of Bidirectional AC/DC Power Converter for Hybrid Microgrid System	On-going
4	Sammer Bhagwan Kumbhar	Mechanical Engineering	Prof. Dr. S. P. Chavan	1st July 2014	Design Development and Analysis of MAGNATO-RHEOLOGICAL Elastomer-Shape Memory Alloy Composite as a Vibration Absorber	On-going
6	Archana Pritam Kale	Computer Science & Engineering	Dr. Mrs. S. P. Sonavane	1st July 2015	Implementation of Neural Network Base for Pattern Classification by Identifying Subsets in Feature Selection Techniques	On-going

5	Sachin S. Patil	Computer Science & Engineering	Dr. Mrs. S. P. Sonavane	1st July 2015	Design and Development of Improved Techniques for Handling Imbalanced Big Data Streams	On-going
7	Sajeed S. Mulla	Electronics Engineering	Prof. Dr. Mrs. S. S. Deshpande	1st July 2015	Design of Miniaturized Micro Strip Antenna for Efficient Multi Band Mobile Communications	On-going
8	Shikalgar Arifa Javid	Computer Science & Engineering	Dr. Mrs. S. P. Sonavane	18th July 2016	Design and Development of Deep Learning Computational Model for Dimensionally Reduction of Heterogeneous Data	On-going
9	Bhabhulgaonkar Arun Ramrao	Computer Science & Engineering	Dr. Mrs. S. P. Sonavane	18th July 2016	Optimizing Statistical Machine Translation Using Linguistic Teahre Learning	On-going
10	Valabha Sachin Patil	Electronics Engineering	Prof. Dr. Mrs. S. S. Deshpande	18th July 2016	Design of Control Mechanism for Power Saving with Configurable Architect	On-going
11	Supriya R. Kulkarni	Electronics Engineering	Prof. Dr. Mrs. S. S. Deshpande	18th July 2016	Development of NMPC Algorithm of FPGA Using Pso for Nonlinear Fast Dynamic Systems.	On-going
12	Bhushan Sukumar Yelure	Computer Science & Engineering	Dr. Mrs. S. P. Sonavane	24th July 2017	To Develop Adaptive Secure Position Based Routing Protocol in Vehicular Ad-Hoc Network	On-going
13	Sangita Balkrishna Nemade	Computer Science & Engineering	Dr. Mrs. S. P. Sonavane	24th July 2017	Generation of Image Region Annotation Using Deep Learning	On-going
14	Nangare Sudhir Pandurang	Mechanical Engineering	Prof. Dr. B. S. Gawali	24th July 2017	Oil Free Compressors Used in Cryogenics for Pulse Tube Cryocoolers	On-going
15	Satyawan Ramchandra Jagtap	Electrical Engineering	Prof. Dr. D. S. More	24th July 2017	Fault Diagnosis and Fault Tolerant Control for Switching Power Converters	On-going

## 2.2 IPR and Patents: Granted, Filed and Licensed:

### Patents Awarded

Title of Patent	Name of Faculty	Patent No.	Date of Award
Technique for generating a mother wavelet from the Speech signal for evaluation of wavelet transform to capture time variations in speech signal Indian Patent	Dr. Mrs. S. D. Apte	123/MUM/2002/3402	25-08-2006
Method and device for regulating and changing the compression ratio, valve timing of an internal combustion engine	Mr. D. D. Ladi (UG Student) & Dr.S.P.Chavan	565/MUM/2006	04-10-2007

### Patents Filed

Title of Patent	Name of Faculty	Patent No.	Date of File
Integrated Hierarchical Process For Fault Detection And	Dr.R.G.Chougule and	20090295559	03-12-2009

Isolation	others		
Automatic solar tracking system for collector dish without use of electricity	Dr. S.P. Chavan	1859/MUM/2011	28-06-2011
Pass Transistor Adiabatic Logic Circuit with Standby Mode (PAL2NSM)	Mrs. Dr. S. Subbaraman	2315/MUM/2011	17-08-2011
Design and Development of 1 TR Vapour Adsorption Air Cooling System for Truck Cabin using Heat from Engine Exhaust	Dr. G.V. Parishwad & Mr. Harish Tiwari	2752/MUM/2011	29-09-2011
Method and apparatus for analysis of roughness quality of flat metal surface by image processing	Dr. K.H. Inamdar	2752/MUM/2011	09-03-2012
Method and apparatus for analysis of roughness quality of flat metal surface by image processing	Dr. K.H. Inamdar	624/MUM/2012	09-03-2012
Cryptography and steganography	Dr. Mrs. S.P. Sonavane	1120/MUM/2012	15-03-2012
An Instant Potable and Compact Cooling System working on Multiple Heat Sources	Dr. G.V. Parishwad, & Mr. Harish Tiwari	768/MUM/2012	22-03-2012
Process for Image Authorization, Authentication and Integrity check	Dr. Mrs. S.P. Sonavane	1120/MUM/2012	09-04-2012
Method And Apparatus For Analysis Of Roughness Quality Of Flat Metal Surface By Image Processing	Dr.K.H.Inamdar	624/MUM/2012	04-05-2012
A System and Method for Detecting Unbalance in a rigid rotor Using a Dynamic Balancing Machine	Dr. Y. V. Joshi & Mr. N.G. Apte	300MUM/2013	02-02-2013
An innovative method for Heating water by using PTFE coat or the like	Mr. S.V. Ramchandre	1521/MUM/2014	01-05-2014
A System for Turning Vehicle with Minimum Turning Radios	Dr. S.P. Chavan	3250/MUM/2014	13-10-2014
A System and A Method For Faster Reorganization Of Iris Pattern On Distributed Systems	Mr. A.J. Umbarkar	R201621004648	09-02-2016
Process for image authorization authentication and integrity check	Dr. Mrs. S.P. Sonavane	R20162007239	09-03-2016
online fraud detection for electronic voting under AICTE RPS	Dr.S.P.Sonavane	201621008275	15-03-2016
A System and a Method for Treating Domestic Wastewater	Dr.P.G.Sonavane, Dr.G.R.Munavalli	02806342803201650032	27-03-2016

## 2.3 Footprint of Projects and Professional Practices (Testing and Consultancy):

### Research Grants Received

Grants Received (Rs. In Lacs)					
Agency/Year	2014-15	2015-16	2016-17	2017-18	2018-19
AICTE	-	-	26.80	-	19.8
DST	-	18.00	25.65	9.83	-
MPCB	4.90	7.75	8.51	5.01	8.34
CDTP	8.00	8.00	8.00	-	12.0
TEQIP-II, III	250.00	200.00	250.00	46.55	222.04
John Deere	-	-	-	22.99	-
<b>Total</b>	<b>262.90</b>	<b>248.75</b>	<b>318.96</b>	<b>84.38</b>	<b>262.11</b>

- **TEQIP Phase-I** (2004-08)– A world bank project with a funding of **Rs.8.65 Crore.**
- Progressing well **TEQIP Phase-II** (2012-16) with **Rs. 12.5 Crores** of Funding.
- NPIU released **additional Rs.5.00 Crore** funds based on performance.

### Details of Testing and Consultancy:

Testing and Consultancy (Rs. In Lacs)					
Department/Year	2014-15	2015-16	2016-17	2017-18	2018-19
<b>Civil</b>	29.20	5.92	6.32	16.66	40.71
<b>Mechanical</b>	13.50	9.90	9.65	6.52	8.87
<b>Applied Mechanics</b>	20.59	26.05	23.23	32.49	40.68
<b>Electrical Engineering</b>	0.70	0.52	3.46	2.49	7.48
<b>Computer Sci. &amp; Engg.</b>	0.00	3.86	0.00	0.00	0.00
<b>Information Technology</b>	1.00	0.00	0.00	0.07	0.00
<b>Public Health</b>	0.00	0.00	21.64	9.87	3.84
<b>CCF</b>	0.00	0.00	0.00	0.00	0.20
<b>Total</b>	<b>64.99</b>	<b>46.14</b>	<b>64.32</b>	<b>69.01</b>	<b>102.14</b>

## Research Projects Completed by the faculty in the last four years

Year wise	Name of the project	Funding agency/Industry	Grant Received Rs. Lakhs
<b>A. College Funded Minor Projects</b>			
2013-14	Design & Development of Parallel evolutionary algorithm for Function Optimization NVIDIA (1 Lac GPGPU card donated) &	TEQIP	2.50
2013-14	Design of Robust Protocol for relaying scheme in co-operative communication	TEQIP-II	3.25
2013-14	Implementing RFID for college	TEQIP-II	0.60
<b>B. Other agencies - National and International (Major Projects)</b>			
2011-13	Study on Water Quality and Treatment of Harvested Rooftop Rainwater	AICTE	10
2010-11	Design and development of a flexure bearing for miniature linear compressor- Dr. M.M. Khot.	DST, N. Delhi	14.04
2012-13	Research in electro discharge machining	AICTE, N. Delhi	18.20
2012-13	Machining of MMCs- Dr.U.A.Dabade	DST, N. Delhi	23.50
2010-11	Location management in Wireless Sensor Networks with Mobility	RPS-AICTE	10.35
2009-12	Development of Problem Solving Environment (PSE) for scalable HPC.	AICTE RPS	3.45
2010-12	Development of Problem Solving Environment (PSE) for scalable HPC	NRB-DRDO	46.64
2010-13	Exploring Image Analysis Techniques for Detection and Classification of Malignant Breast Lesions Dr. S. H. Bhandari	DST	8.88
2011-13	Development of Neuro-fuzzy system for HCI applications based on eye-gaze tracking.	AICTE RPS	9.20

## Ongoing Research Projects

Year wise	Name of the project	Funding agency/ Industry	Grant (Rs. Lakh)
<b>A. College Funded Minor Projects</b>			
2013-16	Wastewater treatment by aerobic and anaerobic SBR	Seed fund under TEQIP-II	3.00
2013-15	Characterization of Burnt Clay Bricks of Maharashtra	Seed fund under TEQIP-II	1.15
2013-15	Improving performance of existing rapid sand filters in urban water treatment plants and trying appropriate water purification alternative for rural area	Seed fund under TEQIP-II	1.70
2013-15	Food Waste Management	Seed fund under TEQIP-II	1.70
2013-15	Indoor air quality investigation in school buildings situated in Sangli District	Seed fund under TEQIP-II	1.97



Year wise	Name of the project	Funding agency/ Industry	Grant (Rs. Lakh)
<b>B. Other agencies - National and International Minor Projects</b>			
2013-15	Design of PLL Based Frequency Synthesizer For Airborne Systems	IIT Bombay	-
2013-15	Hardware Realization of Stereo Camera & Associated Emb. System	IIT Hyderabad	-
2013-15	FPGA Implementation of Kalman Filter	IIT Bombay	-
<b>B. Other agencies - National and International Major Projects</b>			
2013-14	Studies on utilization of Water Treatment sludge in the verification of Burnt clay Bricks for Buildings-Dr. K. S. Gumaste	RPS - AICTE	16.30
2012-13	Package Treatment for Domestic Wastewater-Dr. P. G. Sonavane	RPS- AICTE	22.50
2013-14	Study of Static & Dynamic Behavior of Helical Compression Spring with continuously varying Coil Diameter - Mr. A.P. Patil and Dr.S.P. Chavan	RPS- AICTE	8.80
2013-14	Development of Automated Inspection Method for Metal Castings using Image Processing Techniques - Dr. K.H. Inamdar	RPS- AICTE	8.80
2013-14	Development of new machine topology	RPS- AICTE	15.30
	Performance comparison of Wavelet, Neural and Time domain- Mrs. S. P. Diwan		14.40
2011-12	Raisin making process and techno-logy development-Dr. S.P. Chavan and Mr. B.N. Naik	BARC	25.0
2012-13	FPGA implementation of MPC	RPS-AICTE	16.0
2013-16	Design and Implementation of Surveillance Mining System - Dr. B. F. Momin Mining System	RPS-AICTE	15.50
2012-15	Implementation of Cellular Automata for Multi-share Cryptography Security- Dr. Mrs. S. P. Sonavane	RPS-AICTE	8.00
2016-18	intelligent Cognitive Vision Support for an Independent Lifestyle of Elderly People - Dr. S. H. Bhandari	DST, N. Delhi	16.00
<b>C. Industry sponsored Minor Projects</b>			
2013-15	Test Automation Using Virtual Environment	John Deere	4.50
2013-15	Automation of Machine and Control System to Optimize Level Car Parking	PARI Automation	-
2013-15	Tire Pressure Monitoring System(TPMS)	Hella Electronics	-

Year wise	Name of the project	Funding agency/ Industry	Grant (Rs. Lakh)
2013-15	Marvell's Motherboard Layout Design for Vector Signal Generator	Marvel Semiconductor	-
<b>C. Industry sponsored Major Projects</b>			
2008 onwards	Air Monitoring	MPCB	16.67 per annum

## Interdisciplinary & Collaborative Research

Department	Collaboration with	Area of Research
Civil Engg	Maharashtra Pollution Control Board, Mumbai	Air quality and noise monitoring in Sangli
Mechanical Engg	BARC, Mumbai, Danfoss	Rasin making process and technology development
Electronics	John Deere	Agricultural & Automotive Research
CS & Engg	IIT, Bombay	High Power Computing
Info. Technology	NVidia, Bangalore	Image and Video processing
Mathematics	University of Central Florida, Orlando, USA	Complex Analysis

## Transferring Research to Community

Research Work	Application
Roof top <b>rainwater harvesting</b> system and development of package inline treatment	Implemented in college campus
<b>Treatment for domestic wastewater</b>	Implemented in staff quarter
Low cost and <b>Energy Efficient Building Designs</b>	Application of Filler slabs, Stabilized Mud Blocks, Composite Beam-panels roofs for residential buildings in and around Sangli
Research on <b>black cotton soil</b> towards reduction of flooring distortions	Flooring distortion minimizing on GF when plinth filling is done on BC soil available at site
<b>Embedded System Design</b>	Automotive and agricultural applications
<b>High Performance Computing</b>	Platform for algorithm testing

## Faculty Achievements

### Research Awards Received by the WCE Faculty

Name of faculty	Prize/Award received	Organization/ Institute	Year
<b>Civil Engineering</b>			
Prof. Dr. S. N. Tande	Suchit Kumar Ghosh Memorial Prize	The Institution of Engineers	2007
	The Dr. Jai Krishna Prize		2009
	Leading Scientist of the World 2012	Int. Biography Centre, Cambridge,	2012
	The Cambridge Certificate		2013
Shri. S.B. Kadam	Young Scientist Award under the discipline of "Engineering science and Technology	Uttarakhand State Council for S&T Nov 2011.	2011
Dr. G. R. Munavalli	S.V. Patwardhan prize for best paper published	Journal of Indian Water Works Association	2014
<b>Electrical Engineering</b>			
Dr. D. S. More	Best research paper award	(NPEC-2011), held at Bengal Engg and Science Uni. Shibpur,	2011
<b>Mechanical Engineering</b>			
Dr. M.Y. Khire	Best Teacher Award	Maharashtra State Govt.	2005
<b>Dr. M.M. Khot</b>	<b>Young Scientist Award</b>	<b>DST, N. Delhi, India</b>	<b>2010</b>
Dr. U. A. Dabade	DST- FAST TRACK Young Scientist Award	DST, N. Delhi, India	2012
Dr. B S Gawali	Consistent Contribution in HVAC	ASHRAE	2012
<b>Electronics Engineering</b>			
Dr. Mrs. S. Subbaraman	Pillars of Indian Society	Asian Chamber of Commerce, Mumbai	2017
Dr. Mrs. S. Subbaraman	AICTE Adjunct Faculty	AICTE	2017
Dr. S. N. Kore	Dr. Abdul Kalam life Time Achivement National Award	International Institute for Social and Economic Reforms For teaching, research and publications	2017
<b>Information Technology</b>			
<b>Dr.(Mrs.) S.P. Sonawane</b>	<b>Young Scientist Award</b>	<b>DST, N. Delhi, India</b>	<b>2007</b>

A. J. Umbarkar	Best Paper Award High performance GPGPU – Titan card of Rs. 1 Lakh N-Vidia research on Evolutionary algorithm.	BVCON 2009 N-Vidia, Pune	2011
<b>Computer Science &amp; Engineering</b>			
Dr. P. J. Kulkarni	Best Teacher Award,	Maharashtra State Govt.	2012
Mrs. M.A. Shah	Received best presentation award at Doctoral Symposium of DEBS 2014.	IIT, Mumbai	2014
Dr. S.H. Bhandari	Research fellowship under Woman Scientist Scheme	DST, N. Delhi, India	2006
Dr.(Mrs.) S.H. Bhandari	Young Scientist Award	DST, N. Delhi, India	2010
Dr. P. J. Kulkarni	Recognition in Who's Who for excellence in Academics	-	2011
Mrs. M. A. Shah	Received sponsorship of US\$ 400Best presentation award at Doctoral Symposium of DEBS at IIT, Mumbai	IIT, Mumbai	2013
Mrs. M.A. Shah	Received sponsorship of US\$ 200 for IPDPS Conference	Association of computing machinery, New York	2014
M.K. Chavan	Research fellowship at IISc Bangalore in Supercomputer Education Research Centre (SERC)	SERC, DST, N. Delhi, India	2013
<b>Mathematics</b>			
Dr. S.B. Joshi	Young Scientist Award	DST, N. Delhi, India	1999

### Institute Level Best Practices

- **Solar street lighting** facility throughout the campus
- **Rain water harvesting**
- Decentralized **waste water treatment plant** based on natural principles
- **Water for gardening** derived from above.
- **Natural lighting** arrangement in Badminton hall and few labs
- **Training programs for weaker section of the society** and rural population in Sangli District through community service to enable them for self-employment
- Academic flexibility
  - **Interdisciplinary Open/institute electives**
  - **Internship** UG (SPAI), sponsored projects for PG
- **Emphasis on ICT** for all academic and administrative activities
  - Use of LCDs, interactive boards, eLearning material, on-line assignments/examinations, simulation tools etc.
  - Use of **virtual labs** for teaching both theory and practical sessions of few courses as per IITB

methodology (DIP, Animation Techniques)

- Few curricular courses **blended with IITB** course material, **NPTEL videos**, and lecturer's material
- Transparent Examination process
- Academic monitoring
- 25% UG and PG **projects** related with **societal concerns**
- **Research paper publication** for PG students is mandatory
- Few students getting stipend of **Rs 10000/- p.m.** for a period of six months for projects under **TIFAC**
- Excellent **TPO** activity
- 30% students get **internship in IT** related companies and most of them get absorbed in same companies.
- **24 x 7 lab facility** available administered by student club members
- Industrial and field **visits**

### 3. GRADUATION OUTCOME

#### 3.1 Student Mentoring and Support

In order to improve the performance of the students various methods of Mentoring and support are followed in the Institute which are as follows:

- **Counseling System**
  - Counseling to students with poor attendance and academic performance by class teacher/course teacher.
- **Economically Weak Students**
  - Support through endowments and scholarships
  - Earn and Learn support through Library
- **Encouragement** to participate in co-curricular activities viz. paper presentation, debates, project competitions etc.
- **Soft skill development training**, Career guidance and Placement through Training & Placement cell.
- **Financial Assistance**
  - 50% UG (State Govt) and 100% PG students (Central Govt.)
- Support for **physically challenged** students
  - **Preference** is given for **hostel** / in campus accommodation.
  - **Lecture** and Examination **halls** are provided at the **ground floor**.
  - **Ramps** are provided at various places in the campus
  - **Extra time** is given for examination of theory paper and labs **for PH students**.
  - Administrative support to avail **concessional travel** to attend conferences, seminars, industrial visits etc. from state and central government agencies.
- Support to **SC/ST** students
  - **Book bank** scheme
  - **Facilities of Social welfare** Department, GoM passed on to the category students
- Support to **slow learners**
  - Course faculty provides learning material, interacts for solving problems and clarifies the doubts and **summer term**
- Exposure to students of other academic institutes, corporate, business houses
  - **Participation** in paper presentation, project competition, quiz contest organized by other institutes
  - **Student transfer** programme
  - **Industrial visits**
  - Virtual tour of industry during company presentation (**campus placement**)
- Support for GATE examination
  - **Software** for Solving Question Paper for **GATE**
  - For attempting mock GATE examination
- Support for sportspersons
  - **Exemption from attendance** requirement
  - **Provision** for sports kits, dress, diet etc.

Following student support cells are in place.

- **Training and placement cell**
  - Personality development and soft skill training programs organized through TPO

- **Registered Alumni Association**
  - Donations from alumni
- **Student Grievance cell**
- **Sexual harassment committee, Anti-ragging committee**

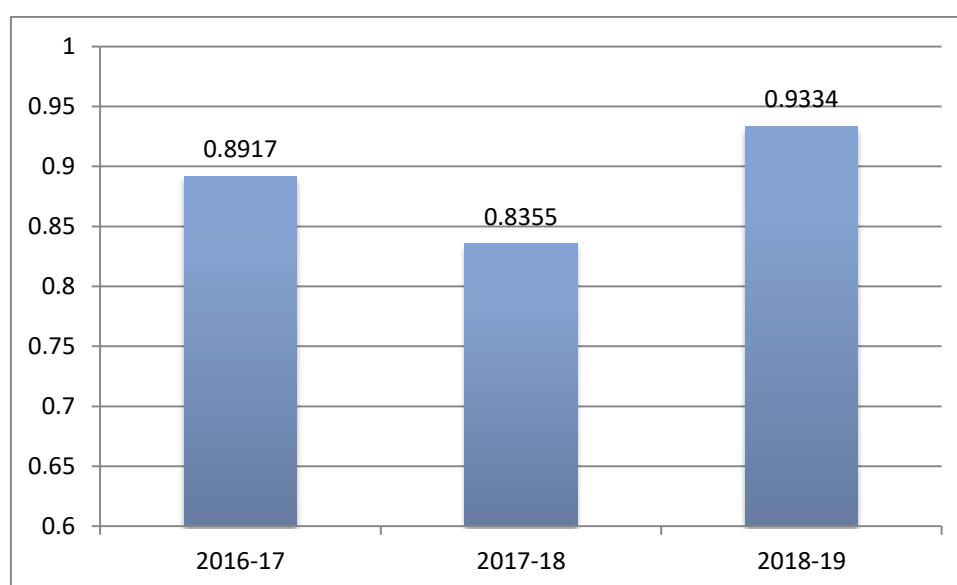
### 3.2 Combined Performance in Public and University:

**Result of 2018-19:**

Class	Department	Total	Pass	ATKT	Fail	% of Passing
First Year B.Tech.	Civil	76	52	11	13	82.89
First Year B.Tech.	CSE	113	90	12	11	90.27
First Year B.Tech.	Electrical	67	55	5	7	89.55
First Year B.Tech.	Electronics	71	51	11	9	87.32
First Year B.Tech.	IT	69	57	7	5	92.75
First Year B.Tech.	Mechanical	67	52	10	5	92.54
Second Year B.Tech.	Civil	76	72	2	2	97.37
Second Year B.Tech.	CSE	118	104	7	7	94.07
Second Year B.Tech.	Electrical	83	59	17	7	91.57
Second Year B.Tech.	Electronics	81	55	17	9	88.89
Second Year B.Tech.	IT	80	69	7	4	95.00
Second Year B.Tech.	Mechanical	81	59	18	4	95.06
Third Year B. Tech.	Civil	78	66	10	2	97.44
Third Year B. Tech.	CSE	119	95	16	8	93.28
Third Year B. Tech.	Electrical	82	48	26	8	90.24
Third Year B. Tech.	Electronics	67	45	17	5	92.54
Third Year B. Tech.	IT	72	57	8	7	90.28
Third Year B. Tech.	Mechanical	78	70	7	1	98.72
Final Year B. Tech.	Civil	70	70		0	100.00
Final Year B. Tech.	CSE	116	115		1	99.14
Final Year B. Tech.	Electrical	75	70		5	93.33
Final Year B. Tech.	Electronics	73	72		1	98.63
Final Year B. Tech.	IT	76	73		3	96.05
Final Year B. Tech.	Mechanical	80	79		1	98.75
First Year M.Tech.	Civil EV	18	13	5		100.00

First Year M.Tech.	Civil ST	30	26	2	2	93.33
First Year M.Tech.	CSE	30	24	3	3	90.00
First Year M.Tech.	CSE(IT)	3	3			100.00
First Year M.Tech.	ELE CS	14	10	3	1	92.86
First Year M.Tech.	ELE PS	18	11	4	3	83.33
First Year M.Tech.	ELN	28	19	6	3	89.29
First Year M.Tech.	Mech DE	30	29		1	96.67
First Year M.Tech.	Mech HP	18	18			100.00
First Year M.Tech.	Mech PR	25	25			100.00
Second Year M.Tech.	Civil EV	18	18			100.00
Second Year M.Tech.	Civil ST	26	24		2	92.31
Second Year M.Tech.	CSE	30	29		1	96.67
Second Year M.Tech.	CSE(IT)	14	14			100.00
Second Year M.Tech.	ELE CS	19	18		1	94.74
Second Year M.Tech.	ELE PS	18	16		2	88.89
Second Year M.Tech.	ELN	28	21		7	75.00
Second Year M.Tech.	Mech DE	29	28		1	96.55
Second Year M.Tech.	Mech HP	19	19			100.00
Second Year M.Tech.	Mech PR	28	27		1	96.43
	<b>Grand Total</b>	<b>2401</b>	<b>2010</b>	<b>231</b>	<b>160</b>	<b>93.34</b>

### Completion Index





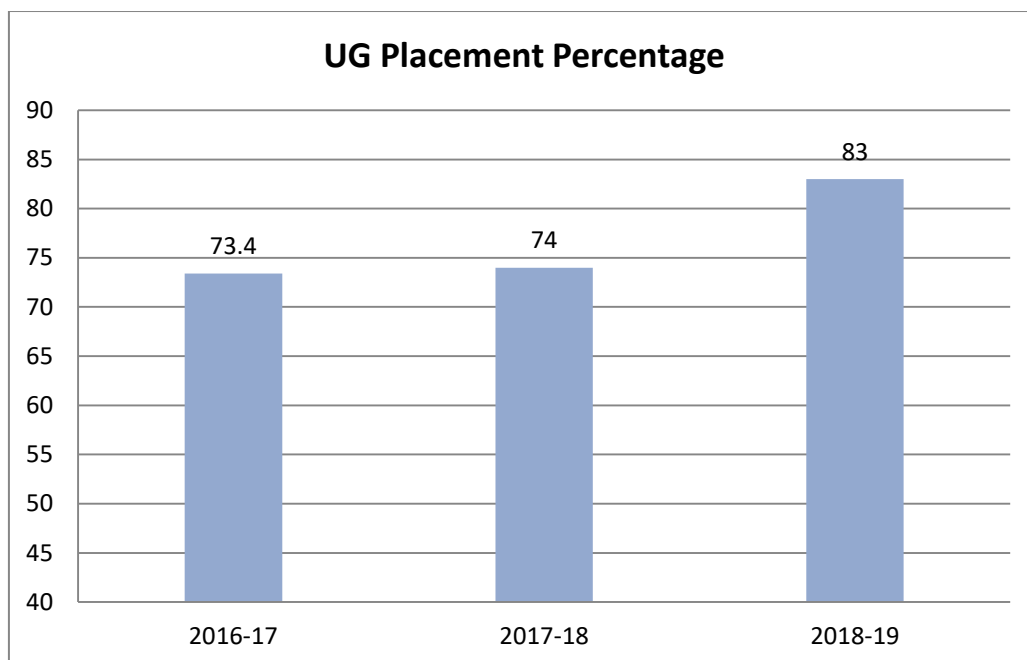
Some of the successful Students are as follows:

Sr. No.	Name of the Student	Branch	Batch	AIR
1	Ajay Kulkarni	CSE	2019	57
2	Shubham Mashere	Electrical	2019	1527
3	Shravan Shailesh Nahar	Civil	2019	2346
4	Vaishnavi Anand Koli	Civil	2019	2765
5	Shubham Babarao Ingole	IT	2019	3527

### 3.3 Combined Percentage for Placement, Higher Studies and Entrepreneurships:

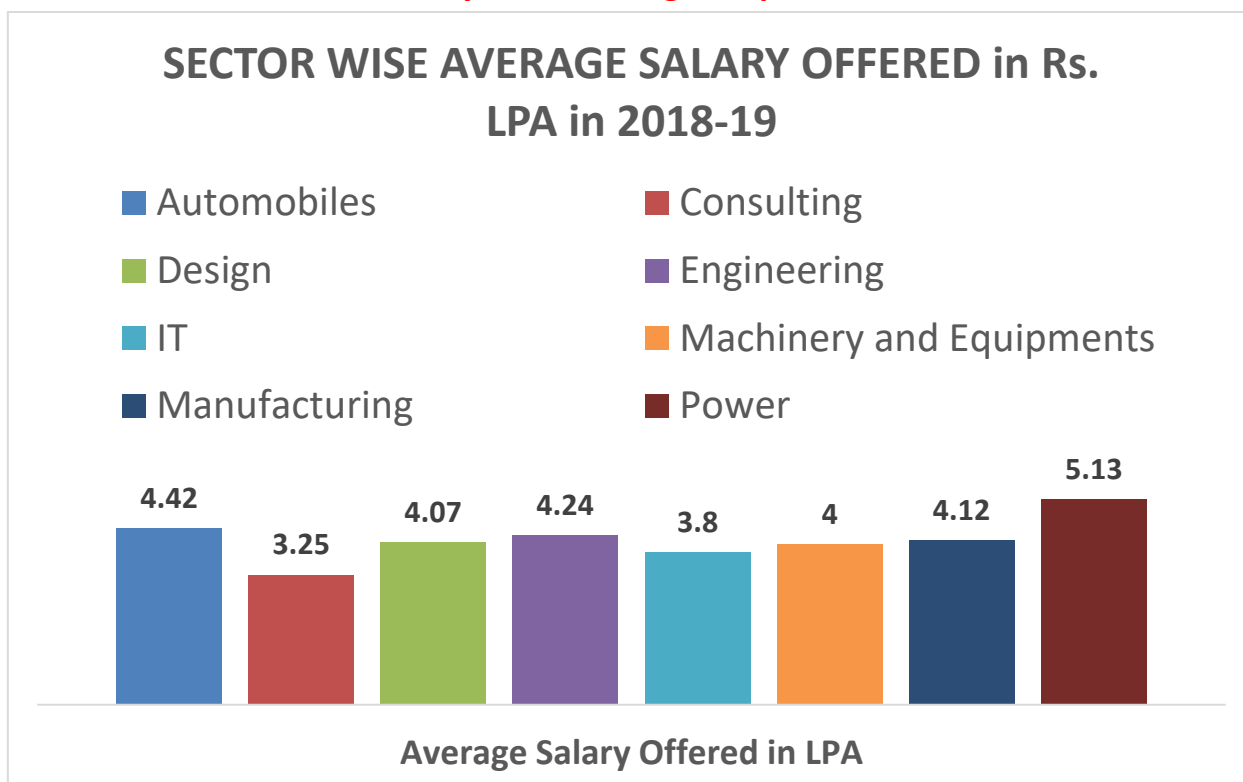
#### WCE, Sangli Placement for last Three Years

	UG % Placement			PG % Placement		
Branches	2016-17	2017-18	2018-19	2016-17	2017-18	2018-19
Civil	49.1	43.2	51.1	20.0	31.4	37.1
Mechanical	82.1	76.5	87.3	23.1	27.7	29.4
Electrical	65.6	62.7	66.1	9.9	37.5	36.4
Electronics	76.9	64.7	86.9	50.0	44.4	28.6
CSE	84.5	89.5	96.2	46.4	37.0	40.7
IT	70.8	84.5	91.0	50.0	42.9	45.5
Total	73.4	74.0	83.0	30.4	34.2	34.0
No. of Companies	80	77	87	<ul style="list-style-type: none"> <li>Placement for PG students in Companies is increasing.</li> <li>Rest get off-campus placement mostly as teachers</li> </ul>		
Average Salary Rs Lacs	5.17	5.07	5.13			
Max Salary Rs. Lacs	14.1	37	37			
Dream Offers	214	160	144			



Year	Enrolled	Placed	% Placed
2016-17	433	321	74.13
2017-18	416	308	74.0
2018-19	399	331	83.0
Average	416	320	77.0

### Sector wise Placement Analysis of Visiting Companies



### Placement of UG Students: 2018-19:

Branch	Enrolled	Placed	% Placement
CIVIL	47	24	51.1
MECHANICAL	63	55	87.3
ELECTRICAL	56	37	66.1
ELECTRONICS	61	53	86.9
COMPUTER SCIENCE	105	101	96.2
IT	67	61	91.0
<b>Total</b>	<b>399</b>	<b>331</b>	<b>83.0</b>

### Placement of PG Students: 2018-19:

Branch	Enrolled	Placed	% Placement
CIVIL	35	15	37.1
MECHANICAL	68	20	29.4
ELECTRICAL	22	8	36.4
ELECTRONICS	28	8	28.6
COMPUTER SCIENCE	27	11	40.7
IT	11	5	45.5
<b>Total</b>	<b>191</b>	<b>65</b>	<b>34.0</b>

TOP FIVE Companies on the basis of salary and number of students placed in 2018-19.

Sr. No.	Company Name (On the Basis of Salary)	Average INR/Annum	Sr. No.	Company Name (On the basis of number of students placed)	Number of students placed
1	Linkedin	37	1	TCS ( Ninja)	83
2	Rakuten Software ( Japan)	33.58	2	Infosys	77
3	Amazon	28	3	Accenture	39
4	A & B IT Services Japan	24	4	EATON Corporation	20
5	Symantec Corporation*	11.3	5	TCS Digital	15

## Detailed Placement of 2018-19:

This year, 87 companies visited the campus for placement. The following table gives the details of the companies visited along with the salary and no. of jobs offered.

Sr. No	Company	Salary in LPA	Total Offers	Dream Offers	No. of students Placed											
					Civil		Mechanical		Electrical		Electronics		Computer		IT	
					B.Tech	M.Tech	B.Tech	M.Tech	B.Tech	M.Tech	B.Tech	M.Tech	B.Tech	M.Tech	B.Tech	M.Tech
1	Linkedin	37	1	1									1			
2	Rakuten Software ( Japan)	33.58	3	3									3			
3	Amazon	28	1	1									1			
4	A & B IT Services Japan	24	1	1											1	
5	Symantec Corporation*	11.3	2										1	0	1	
7	Dell	10	7	4										5	1	1
6	TCS ( TRTDC )*	9	8	5							0	0	6	1	1	0
8	SEAGATE	8.5	2	2							2		0			
	SAHAJ Software Solutions	8.5														
9	MuSigma	8.4	1	1					1							
10	Pubmatic Software	8.3	6	5									3	0	3	0
11	Hindustan Unilever	8.2	1	1			1									
12	Infosys (Power)	8	3	0									3			
13	ThoughtWorks	7.6	10										8	0	2	0
14	General Electric	7.5	2											1		1
15	TCS Digital	7.2	15	3			0	0	0		1	0	11	0	3	
16	Siemens PLM	7	9	2			0		0		0	0	8		1	
17	HSBC	7	1	1											1	
18	TOM TOM International	6.93	6	6									4		2	
19	Atlas Copco	6.8	5				3		2							
20	Josh Software Ltd	6.8	6								0	0	3	0	3	
21	NICE Systems	6.6	13										9		4	
22	L & T ( ECC)	6.52	1		1											
23	Dassault Systems	6.5	9				4	3					2	0		
24	HCL	6.5	1										1			
25	John Deere	6.46	2									2				
26	EATON Corporation	6.25	20	1			9				2		5		4	
27	Mercedes Benz	6	1	1							1					
28	Cummins	6.5	3	1					2		1					
29	Pricipal Global Financial Services Ltd	6	9	1	0		0		1		1		5		2	
30	Govt Job(MPSC)	6	1							1						
31	Persistent	6	14	8									11		3	
32	FIAT	6	2	1			2									
33	L & T (Heavy Engineering)	6	2	2			1				1					
34	Siemens (Core)	5.5	4	1					2		2					
35	Godrej & Boyce	5.5	4	3			4									
36	DISCOM	5.5	1	1						1						
37	Spectrum Technoconsultants	5.4	1			1										
38	GS Lab	5.25	12	10									8		4	
39	LODHA GROUP	5.1	8	1	3		2		3							
40	Jaro Education	5.1	1				1									
41	TAVISCA	5.04	3	0									2		1	
42	Raja Software Labs	5	6								0	0	3	0	3	0
43	JECOB Consultant	5	3		2	1										
44	Dar Al Handsah	5	3						2		1					
45	American Beuro of Shipping Corporation	5	15	9							4		7		4	
46	TOYO Engineering Limited	4.87	2				2									
47	Town Planning	4.8	1			1										
48	Kokan Railway	4.8	1			1										
49	National Highway Authoritu of India	4.8	1			1										
50	Nagravikas (City Engineer)	4.14	1			1										
51	Kirloskar Brotthers Ltd.	4.5	2	1			1		1							
52	Xoriant	4.5	2												2	
53	ICERTIS Solutions	4.5	5	2									4		1	
54	Tata Technology	4.5	5	5									4		1	
55	Tata Consulting Engineers	4.5	12	3	9		2		1							
56	Johson & Johnson	4.5	1				1									
57	Quest Global Design	4.5	2					2								

58	KSB Pumps	4.5														
59	Merkle Sokrati	4.4	2	2			1		1							
60	CYIENT Technology	4.2	1					1								
61	Agreeta Solutions	4.2	1								1					
62	L & T Infotech (LTI)	4.18	7	7							2		4		1	
63	JFE Engineering	4	0				0		0							
64	ACC Ltd	4	2		1				1							
65	Sujan Cooper Continental	4	3	1				3								
66	Globant Technology	4														
67	KyaZoonga software	3.75	6									4			2	
68	Sciative Solutions	3.75	1	1								1				
69	Accenture	3.75	39	24							15		13		11	
70	Shapoorji Pallonji	3.75	7	1	3				4							
71	Infosys	3.6	77	7	4		14	11	13	4	9	3	8	4	3	4
72	AlgoAnalytics Pvt. Ltd*	3.6	1	1									1			
73	Crane India	3.5	3				3									
74	VMS Structural Consultant	3.4	2			2										
75	TCS ( Ninja)	3.36	83	1	0		6	1	8	0	30	2	20	1	14	1
76	MindeTree Technology	3.25	1								1					
77	WIPRO Technology	3.25	0													
78	Hindustan Construction Company Ltd.	3.25	5	1	5											
79	Aquatech Systems Pvt.Ltd	3.2	1			1										
80	FISERV.	3.2	7								3		2		2	
81	Bridgestone India Pvt.Ltd	3	1	1			1									
82	ADVIK HI TECH Pvt Ltd	3	4	2			2		2							
83	SCOPE TNM	3	7	3					1	2	1	3				
84	Alfa laval	3	5	3			5									

## Labs Set-up through Collaborations

Sr. No.	Industry/ Organization	Centre	Department
1	John Deere	Research centre in embedded system	Electronics Engg,
2	IBM	Centre of Excellence	Computer Science & Engg
3	MPCB	Air quality monitoring Lab.	Civil Engg
4	DRDO	High Performance Computing	Information Technology
5	Danfoss	Refrigeration and Air Conditioning	Mechanical Engg
6	3DPLM	Product Innovation Lab	Mechanical Engg

## Our Proud Alumni

SN	Alumni	Position
1	Prof. A. V. Patki	Ex Director, ISRO, Bangalore
2	Dr. R. A. Katti	Ex Head, Thermal Systems, ISRO Bangalore
3	Dr. S. D. Awale	Ex-VC, Dr Ambedkar Tech. Univ., Lonere
4	Dr. P. A. Kulkarni	Ex-VC, Sikkim-Manipal Univ., Sikkim
5	Shri. V. S. Prabhu	Vice Chairman, BSES, Mumbai

6	Shri. Adi Engineer	Vice Chairman, Tata Power, Mumbai
7	Shri. Alim Chandani	Chairman, Stup Consultant, Mumbai
8	Shri. Rajas Doshi	CMD, Indian Hume Pipes Ltd., Mumbai
9	Dr. S.G. Joshi	Joshi Technologies Inc, Columbia, USA
10	Shri. M. N. Navale	Founder Trustee, Sinhgad Tech. Ed. Soc.
11	Shri. Vishwas Sapkal	Indian Ambassador to Armenia, High commissioner at Fiji
12	Shri. B. Raheja	Eminent Builder, Mumbai.
13	Deepak Shikarpurkar	President, Computer Society of India
14	Mr. B.V. Aradhye	Ex Director, ISRO Ahmadabad
15	Shri B.R. Lanka	CEO, 3dPLM Division

### 3.4 Extra-Curricular Activities and other Achievements

#### Participation in National Competition

**E-BAJA competition** held on 22<sup>nd</sup> to 29<sup>th</sup> January 2019 at Natrax, Pithampur, Madhya Pradesh, Out of 71 teams, only 14 teams were qualified through Technical Inspection for dynamic events. Our team successfully completed all the evaluations. Our team (25 member team) bagged following awards, appreciations and success:

- i. Within top 5 teams in Design Evaluation
- ii. Second position in Rock crawl



Electric System Check



Vehicle on Track



During Technical Inspection @ Event site



CAE Evaluation



Design Evaluation



**M-BAJA competition** started in April 2018 and ended with participation in final event during 6th to 12th March 2019 at IIT Ropar Chandigarh. Out of 80 teams, only 46 teams were qualified through Technical Inspection for dynamic events. Our team successfully completed all the evaluations and completed all the dynamic events also. There were only approx. 20 teams who completed all the tests. Our team bagged following awards/success:

- i. Fourth position in Cost Evaluation
- ii. Within top 6 teams in Design Evaluation

### Design Evaluation



**Vehicle at Event Site**



**Technical Inspection**



**Go Kart:** WCE had participated in the competition- **ISIE-Indian Karting Race Season 4.0** organized at Galgotias University and Buddha International Circuit, Gr. Noida from 6<sup>th</sup> Feb 2019 to 10<sup>th</sup> Feb 2019 by ISIE. There were 18 participants in a team. Our team bagged following awards/success:

- i. Overall Runner-up - Engine Category
- li. Best Design- Engine Category
- iii. Total cash prizes worth Rs. 40,000/-



During Technical Inspection @ Event site



Vehicle on Track



Prize Distribution

## Electronics Engineering Students' Associations (ELESA)



As a state level competition ELECTROVERT event was promoted all over the Maharashtra through campaigning and newspaper. Held on 8th and 9th September 2018, it witnessed both, the organizers and the participants, experience thrilling technological and managerial obstacles.

*"To shine like a sun, you first need to burn like a sun"*

These great words by Late Dr. APJ Kalam were the premiere principles which were evident from the way everyone completed their responsibilities. With absolutely no concern about any other thing, ELESA channelized its entire workforce to reap good fruits. Campaigning schedules, financial track of all transactions, decorations were all a part of the golden times that the ELESAites spent together to collectively make the event a grand success. No single ELESAite showed any indication of fatigue throughout the event. This being the reason we proudly call ourselves, an "ELESAite". So, the entire ELESA fraternity, hand in hand; came up, worked tirelessly round the clock, which calls for a huge amount of appreciation.

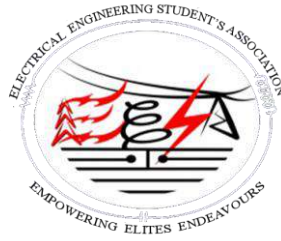
Our organizing committee members campaigned for the event in total 16 colleges across 'Shivaji University' including 'Walchand College of Engineering, Sangli'. More than 1000 participants from around 550 teams participated in ELECTROVERT 2K18.

Electrovert 2K18, being a two day event comprised of 7 competitions conducted on either of the two days. The committees were divided equally for smooth functioning of each and every event. With well-coordinated assignment of tasks, every aspect of the Electrovert 2K18 was taken care of.





## Electrical Engineering Students' Association (EESA)



EESA is a students' organization pioneered in technical activities, founded by Dr. U Gudar. It is the first technical club established at WCE, Sangli. It is active since 1976, with the concept of founder, guidance of staff advisor, under the leadership of final year students, executive row of third year students with full-fledged support of second and first year students together enhances the power of EESA.

EESA helps students pursue their technical interests thereby increasing their engineering expertise along with imparting soft skills. Since its inception, EESA is striving hard to meet its motto "To enhance technical comprehension, soft skills and managerial dexterity" of students pursuing electrical engineering in Walchand college of Engineering Sangli. EESA conducts club service on every Monday. Besides this, outdoor club services are conducted to help the members apply their theoretical knowledge.

### **TECHNOCRAT: Annual Technical Symposium organized on 29<sup>th</sup> & 30<sup>th</sup> of September 2018.**

Instead of keeping our activities limited to only our college, we aim at giving a common platform to students from various colleges to showcase their skills and also facilitate the sharing of knowledge and new technologies. This facilitates to improve the competitive spirit of students and helps them to develop at par with the constantly moving world. This is the sole purpose of organizing TECHNOCRAT. The number of footsteps visiting this event has been increasing year by year.



**Students Association of Information Technology  
(SAIT)**



Since its inception in 2007, SAIT is working as departmental club of IT department. It is an organization created by the students and for the students. SAIT organize two mega events every year. And there are weekly meet-ups on every Monday to promote learning of different technical and soft skills aspects of IT Profession.

In year SAIT organized Tech-Nex 2k19

TECHNOWIZARD was workshop organized by SAIT and Lab Admin Committee of Department of Information Technology in first semester of respective academic year. This workshop was held on 7th and 8th October 2017. Tech-Nex was organized by SAIT in the second semester of respective academic year. In this event various technical and non-technical competitions were arranged. It was held on 30<sup>th</sup> and 31<sup>st</sup> March 2019.





ASSOCIATION OF COMPUTER SCIENCE  
AND ENGINEERING STUDENTS

**ACSES**

logically shifting the world >

Techumen is a national level technical symposium organized by ACSES (Association of Computer Science and Engineering Students) of Walchand College of Engineering, Sangli. Being national level competition, it has achieved a different level among many events held by colleges of Maharashtra.

There was a great rise of approximately 60% in number of entries considering the count of TECHUMEN 2k18 and 2k19. The event experienced increase this year too. The event in-charge was Mr. Vaibhav Thombre and mentors were Mr. Shivam Dhanadhya (President, TECHUMEN'18) and Mr. Prafull Desai (President, TECHUMEN'19). The event was successfully conducted under excellent guidance of staff advisor Prof. A. R. Surve and Head of Department Dr. B. F. Momin. There were many noteworthy innovations this year.

Members of ACSES have themselves created a coding platform. And one of the competitions – CodeWizard was successfully conducted on the same. It compiled over 700 codes and was a great event. Besides, we had a new event – REPUBLICA. This event had a background of administration and management and focused mainly on UPSC/MPSC and management aspirants. For the same event, we had Wing Commander Sanjay Patil as a chief guest. In this way TECHUMEN this year focused on all round development of an individual.



**Mechanical Engineering Students' Association-Mechanical Engineering Students' Chapter**  
**MESA-MESC**



**Mechanical Engineering Students' Association-Mechanical Engineering Students' Chapter (MESAMESC)** is one of the leading departmental associations in Walchand College of Engineering, Sangli. It is a student activity where students from Mechanical Department organize themselves to develop and improve various skills including technical knowledge, aptitude, communication skills, presentation skills, general awareness etc. which is essential for an engineer when he goes to face the challenges in professional world. Its main objective is overall personality development of students of mechanical engineering. Various activities are carried out under MESA-MESC which targets all the students of Mechanical Engineering Department.

In academic year 2018-19, MESA-MESC had organized following events:-

- Weekly Club Services: soft skill development activities. Group discussions, extempore, management games, etc.
- VERTEX 2K17: The State Level Technical symposium organized on 13<sup>th</sup> and 14<sup>th</sup> of October, 2018
- Alumni Meet: Every year on second Sunday this event is organized by MESA-MESC.
- Interviews for selection of board members and Board handover



## **Gymkhana Activities**

### **Zonal / Inter-Zonal / Inter-University Sports Activities**

- 131 students (Boys and Girls) have participated in various sports activities conducted by the Shivaji University (Zonal / Inter zonal) at various games like Cricket, Basketball(M/W), Football, Chess(M/W), Volleyball (B), Badminton(M/W), Table Tennis, Lawn Tennis, kabaddi, etc.
- 30+ students out of 131 were qualified for Inter- Zonal Tournaments.

#### **Zonal tournament:**

##### **1. Swimming (Men & Women)**

Sangli zonal swimming tournament was held at district sports complex swimming tank Miraj on 13th and 14th August, 2018. 10 student teams of college participated in zonal swimming (men & women) tournaments. Walchand College of Engineering team won runner-ups in overall zonal. WCE students took 30 medals in total. Tej Kulkarni own individual championship with 18 medals.

WCE team was runner-ups overall with 82 points.

- 1) Tej Sushant Kulkarni (T.Y. B.Tech. civil)

Took 18 medals, 15 Gold and 2 silver, 1 bronze

- 2) Vaibhav Vishwasrao Thombre (T.Y. B.Tech. CSE)

Took 4 medals, 2 silver and 2 bronze

- 3) WCE team took silver medals in 4\*100 medley relay. Players in relay team

All students qualified for Shivaji University Inter-zonal Swimming (men & women) Tournament at A.R.P. Kanya College, Ichalkaranji, Kolhapur.

Shakshi Kendale was selected for University Women's Team: Jain Univ. Bangalore, Oct 28-31/2018

##### **2. Chess (Men & Women)**

Sangli zonal Chess tournament was held at Smt. M.G Kanya Mahavidyalay Sangli on 13 and 14th Aug., 2018. 27 college's teams participated in zonal Chess (men & women) tournament. Walchand college of Engineering team got runners-up in overall.

WCE team was runners-up overall with 19.5 points. Two Men & Two Women were selected for Inter Zonal Tournament was held at M.B.S.K.K.M Kadegaon.

##### **3. Badminton (Men)**

Sangli zonal badminton tournament was held at R.R. College Jath dated 24th and 25th Aug, 2018. A team of 05 students represented Walchand college of Engineering. Nearly 17 colleges participated in the competition. Walchand college of Engineering men team gets winner-ups in overall.

Boys' team qualified for Shivaji University Inter-zonal badminton tournament was held in September at Rajarambapu indoor hall Sakhrule.

##### **4. Badminton (Women)**

Sangli zonal badminton tournament was held at R.R. College Jath dated 24th and 25th Aug, 2018. 10 college's teams participated in zonal badminton women tournament.

##### **5. Basketball (Men)**

Sangli zonal Basketball tournament was held at R.I.T. Sakharale dated 29 and 30th Sept., 2018. In zonal Basketball (men) tournaments our team lost 2nd round match.

## 6. Cricket (Men)

Sangli zonal Cricket men tournament Organized by Cintamanrao college of commerce Sangli. Sangli zonal Cricket men tournament was held at Walchand College ground and Chintamanrao College ground Sangli from 29th Oct. to 02nd Nov. 2018. 23 teams participated in cricket tournament. Walchand college of Engineering Sangli men's cricket team lost quarter final match.

## 7. Athletics

Sangli Zonal Athletics Meet Organized by Shivraj College, Gadhinglaj at Shivaji University, Kolhapur 13th, 14th Oct., 2018. All colleges under Shivaji University participated in athletics meet. It is called One time one Zone. 10 Students (M/W) participated in these games.

### Inter-Zonal tournament:

#### Basketball (Women)

Shivaji university Inter-zonal Basketball women tournament was held at Atpadi college Atpadi 03,04 oct 2018, 13 college's teams participated in Inter-zonal Basketball women tournament, Our college team get 3rd place in this Tournament.

Astha Bhatt was selected for University team. University Basketball matches Organized by L.N.I.P.E, Gwalior.

Bhatt Astha Girish (FY Electronics) is selected in Shivaji University basketball women team. She played at West zone inter university Basketball (women) tournaments at I. L.N.P.E. University, Gwalior, M.P.





## 4. OUTREACH AND INCLUSIVITY

### 4.1 FDP/Training Program/Guest Lecture organized by Faculty and Staff:

#### Activity Conducted:

Name of Event	Details of Event	Name of Event Coordinator	Date of Event
Day workshop on IOT	Organized by CSE department in collaboration with IT	Mr. A.R.Surve, Ms.P.D. Mundada	Feb 2018
IET , PATW Competition	Presentation Skills	Mrs. A.A. Kulkarni	09 Feb 2018
EBC scrutiny work	Organised	K.V. Madhale	13-20 Mar 2018
Art of Living for staff	Organised	K.V. Madhale	13 Apr 2018
Adarsh institute of technology, Vita	Subject Expert	B.N.Jamadar	13 Apr 2018
ARC work	admission	B.N.Jamadar	02-30 June 2018
3rd National Conference on Recent Trends in Mechanical Engineering (NCRTME-2018)	Two days National Conference at WCE Sangli	Prof. Dr. U. A. Dabade, Prof. Dr. B. S. Gawali, Prof. A.S.Bhandare And Prof. V.V. Dhende	21 - 22 June 2018
Electromagnetic, Microwave, RF and Antenna Design using Ansys HFSS Tool flow	Entuple Technologies Pvt. Ltd. Bangalore	Dr. S. D. Ruikar	9 - 14 July 2018
Embedding Intelligence in IOT edge	IEEE event	Dr. V. B. Dharmadhikari, Mrs. M. R. Khare	28, 29 July 2018
Embedding Intelligence in IoT Edge	The workshop aims to cover basics of IOT in Embedded system design with tensor flow	Mr. M. G. Rathi	28th, 29th July, 2018
Introduction to LATEX for dissertation report writing	S.Y.M.Tech. (Electrical Power & Control System) at WCE, Sangli	Mr. R. G. Datar	Aug 2018
Orientation Program	Welcome function	K.V. Madhale	02 - 17 Aug 2018
One day STTP on "Hands on Training of ION-CUDOS Software."	ION-CUDOS is the software purchased by Institute for the preparation of Coursebook, CO and PO attainment calculation etc. The training for faculty of each Department is organized to give them the first-hand experience of using the software. Each faculty will prepare a sample coursebook using the software in the workshop.	Mr. Anmol Magdum ,Mr.B.R.kavathekar	18 Aug 2018
Two days' workshop on "Application of Scheduling Techniques using MS Project Tool"	. This training provides an overview of how the features of Project relate to the job of the project manager. Explains how to create a new project and establish the basic constraints that Microsoft Project 2016 will use for its calculations.	Mr. Anmol Magdum, Mr. B.R. Kavathekar	7, 8 Sep 2018
New Age learning through 3D Experience Platform	Two Days Workshop at PIL Lab, WCE Sangli, Under TEQIP-III	Dr. S. U. Sapkal	28, 29 Sep 2018
Visit by Dr.Pratap Wagh	Organised	K.V Madhale	Oct 18

John Deere Quiz	Quiz	Dr. V. B. Dharmadhikari	Oct 18
Finite Element Analysis	Two Days Workshop	Prof A. U. Panjape	01, 02 Oct 2018
Research Methodology	Two days National Level Workshop	Prof S. M.Ranade	02, 03 Oct 2018
Introduction to AI and ML for Developing IoT Applications	The workshop aims to cover basics in python programming for Raspberry Pi and interfacing concepts	Mr. A. A. Urunkar	6th Oct to 7th Oct 2018
Embedded Linux	IET Event with TEQIP	Mrs. M. R. Khare	26, 27 Oct 2018
Agile Software Development through various paradigm	Agile development workshop for UG students	Mr. M. G. Rathi	27 and 28 Oct 2018
National level research symposium on computing	Organized by CSE and IT department	Dr.Mrs.M.A.Shah	20 - 22 Dec 2018
Android Application Development	The workshop aims to create awareness among faculty and students about various concepts and applications of Android Application Development.	Mr. M. G. Rathi	12 and 13 January 2019
Mi-power software	Three Day Workshop on Power System Analysis Using MiPower 9.1	Dr. R. P Hasbe	18 - 20 Jan 2019
Power System Analysis using MiPower 9.1	3-days Industrial Training for PG students	Dr. A. P. Vaidya& Mr. S.R. Devne	18 - 20 Jan 2019
Course Management and Technology based Teaching	AICTE Margadarshan	Dr. V. B. Dharmadhikari	21 - 25 Jan 2019
Opal RT	Two Day Workshop on OPAL-RT Real Time Digital Simulator	Dr. R. P Hasbe	4, 5 Feb 2019
Field aspects of Total Station Surveying	The Field aspects of Total Station Surveying are organized under activity of TEQIP-III by Department of Civil Engineering. This program is specifically Designed in order to provide a practical learning experience of a total station This workshop includes discussions and presentations on case studies, Hands on training field applications of total station	Dr. P.G. Sonavane	9 Feb 2019
One day workshop on curriculum development	organized by CSE	Dr .Mrs. M.A. Shah	16 Mar 2019
Hackathon National level coding compition	Organized by CSE	Dr. Mrs. M.A. Shah and Dr. B.F. Momin	16, 17 Mar 2019
One day workshop on Cloud computing	Organized by CSE	Dr. Mrs. M.A. Shah	1 Apr 2019
One week TEQIP-III sponsored workshop on PLC and SCADA	One week TEQIP-III sponsored workshop on "PLC and SCADA" for students of F.Y.M.Tech. (Power and Control System) organized by Electrical Engineering Department, WCE, Sangli in Collaboration with JEC, Jabalpur	Mr. S. S. Karvekar (Coordinator), Mr. R. G. Datar (Co-coordinator)	8 - 12 Apr 2019
Applications of window based Total station and Demonstration of DGPS GNSS receiver in Land Surveying.	The objectives of the workshop are To develop an ability to employ site pertinent procedure analyze topographical features. To promote different innovation techniques and discuss future innovations.	Dr. P.G. Sonavane	25, 26 Apr 2019
Laser diffraction particle size analysis of	The objectives of the workshop are	Mr. A.K. Mali and	8 May 2019

fine construction material using Particle size analyse	1. To introduce measuring particle size using laser diffraction technique 2. To give hands on experience particle size analyzer for analysis of particle size	Mr. A.A. Magdum	
BoS meeting for curriculum design	Organized by CSE	Dr.Mrs.M.A.Shah	14 May 2019
5 Days FDP on High Performance Computing	Organized by WCE in collaboration with CDAC under the aegis of National Supercomputing Mission with NVIDIA	Dr. D. B. Kulkarni, Dr. N. K. Pikle, Prof. U. B. Chavan	15 - 19 Jul 2019

### Guest Lecture Organized by Faculty:

Name of Faculty	Place	Subject	Date of Lecture
Mr. Kavathekar Bhushan R.	WCE Sangli	Guest Lecture on "Use of EPANET, WaterGEMS and SewerGEMS for Design of Water Distribution and Drainage System" under TEQIP-III at WCE, Sangli	08 Jul 18
Prof. K.V. Madhale	WCE, Sangli	How to Control Mind	6 Sep 2018
Dr. N. K. Pikle	WCE, Sangli	Object Oriented Modeling and Design	19 Oct 2018
Mrs. M.M. Tamhankar, Mrs. A.A. Dhamangaonkar	WCE, Sangli	Wiring, Electrical Installation and components of LT switchgear	14 Nov 2018
Prof. K.V. Madhale	WCE, Sangli	Guest lecture on Nanotechnology	19, 20 Nov 2018
Prof. P. A. Mane	WCE Sangli	Special Purpose Machines FEM Project Execution, N.P.P. in India by Mr. Manmohan V. Soman, Associate Vice President Tata Consulting Engineer TCE Mumbai.	07 Feb 19
Mrs. A.A. Dhamangaonkar, R.G Datar, K A Mhaskar	WCE, Sangli	Wiring, Electrical Installation and components of LT switchgear Mr. Kedar Kulkarni (Assistant Engineer, MSEDCL, Sangli)	20 Apr 2019

### FDPs/Conference/Workshop Attended by Faculty, Staff:

#### Events Attended by Faculty:

Name of Event	Details of Event	Name of Faculty	Date of Event
IOT and embedded systems	FDP	Ms.P.D.Mundada	Mar 2018
VLSI Design :Basic to Advanced	IIT Bombay	Mr. R. G. Mevekari	13 - 17 Mar 2018
Recent Trends in Machine Learning	WCE, Sangli	Mr. S. R. Khedkar	5 - 9 Jun 2018
Recent Trends in Machine Learning	WCE Sangli	Mrs. M. R. Khare	5 - 9 Jun 2018
Microwave RF and Antenna Design using ANSYS HFSS Tool	WCE, Sangli	Mr. S. K. Parchandekar	9 - 14 Jul 2018
Applications and Challenges in Multi-Channel Megawatt Power Electronic Systems	Organised at IIT Roorkee	Dr. R. P Hasbe	16 - 20 Jul 2018
International Conference on "Robotics and smart Manufacturing"	International Conference at IIIT, Kanchipuram Chennai under TEQIP-III	Prof. R.M.Chanmanwar	19 - 21 Jul 2018
Natural Language Processing	WCE, Sangli	Mr. S. R. Khedkar	20, 21 Jul 2018
Natural Language Processing	WCE, Sangli	Ms S U Patil	20, 21 Jul 2018
Modeling Analysis & Simulations	two days NAFEMS Engineering Contest 2018 , Bangalore	Dr. S. U. Sapkal	20, 21 Jul 2018
Embedding Intelligence in IOT Edge	WCE Sangli	Ms S U Patil	28, 29 Jul 2018

NPTEL Online (Swayam) From Aug -Oct 2018 (Successfully Completed)	Advanced Linear Continuous Control Systems: Applications with MATLAB Programming and Simulink	Dr. A. P. Vaidya	Aug - Oct 2018
NPTEL Online (Swayam) From Aug -Oct 2018 (Successfully Completed)	Nonlinear and Adaptive Control	Dr. A. P. Vaidya	Aug - Sep 2018
Induction Training Programme	Held at WCE, Sangli	Prof. Kiran Madhale	2 - 17 Aug 2018
ISHRAE REFCON Conference Refrigeration and Cold Storage System	Conference organised by ISHRAE Pune Chapter & Kolhapur Sangli Sub Chapter at Hotel Sayaji Kolhapur	Dr. B.S. Gawali	21 Aug 18
Conference on Two Wheeler and Three Wheeler"	Two days conference at Symbiosis Skills and Open University (SSOU)	Prof. A. U. Paranjpe & Prof. S.D. Jagtap	30, 31 Aug 2018
Thirteenth International Conference on Computational Structures Technology 2018., Barcelona, Spain, 3-5 Sept. 2018.	Research Paper presentation in International conf. in Spain on civil engineering research from 3-5 sept 2018	Dr. Desai R S	3 - 5 Sep 2018
WOSA 2018	At Delhi	Dr. V. B. Dharmadhikari	7 -9 Sep 2018
WOSA 2018	At Delhi	Dr. Mrs S Subbaraman	7 - 9 Sep 2018
WOSA 2018	At Delhi	Dr. B. G. Patil	7 -9 Sep 2018
Professional Development Training (PDT)	Five day training program under TEQIP-III at Indian Institute of Management Kashipur	Prof. S. V. Gaikwad	24 - 28 Sep 2018
Network technologies for smart applications	FDP	Mr S S Sontakke	27 Sep - 1 Oct 2018
Network technologies for smart applications	FDP	Ms. P.D. Mundada	27 Sep - 1 Oct 2018
Recent Trends in Communication Engg.	WCE, Sangli	Ms S U Patil	6 Oct 2018
Recent Trends in Communication Engg.	WCE, Sangli	Mr. S. R. Khedkar	6 Oct 2018
SAE NIS Efficycle-2018	SAE Contest at Lovely Professional University , Jalandhar, Punjab	Prof. A. U. Paranjpe	08 - 14 Oct 2018
Symposium on Appropriate Automation in Indian Context	Symposium at IMTMA PUNE Under TEQIP-III	Dr. U.A. Dabade & Prof. A.S. Bhandare, Prof. P.B. Chougule, Prof. P.D. Maskar	23 Nov 18
Winter School on Optimization And Optimal Control: A Data Based Approach	Workshop	Mrs. Hetal V. Gandhi	03 - 07 Dec 2018
One day Regional Seminar on Innovation, Startups and Entrepreneurs - 2018	One day Regional Seminar on Innovation, Startups and Entrepreneurs - 2018	Dr. G.R. Munavalli	08 Dec 2018
International conf. On Advances In Science & Technology Of Concrete Technology	Research Paper presentation in 3rd R N Raikar Memorial International Conference & Gettu-Kodur International Symposium Advances in Science & Technology Of Concrete Technology 2018, Mumbai (India), 14-15 Dec 2018.	Dr. Desai R S	14, 15 Dec 2018
International conference on 'Techno societal 2018-2nd international	Research Paper presentation in International conference on	Dr. Desai R S	15, 16 Dec 2018

conference on advanced Technologies for societal application	'Techno societal 2018-2nd international conference on advanced Technologies for societal application, Pandharpur, India,		
International Winter Academia - 2018	One day seminar Under TEQIP-III at Govt./ College of Engg., Karad	Dr. S.U. Sapkal	17 Dec 18
Third National Research Symposium on Computing	Symposium	Mrs. Hetal V. Gandhi	20 - 22 Dec 2018
Third National Research Symposium on Computing	Symposium	Ms. A. S. Pawar	20 - 22 Dec 2018
Third National Research Symposium on Computing	Symposium	Mr S S Sontakke	20 - 22 Dec 2018
Third National Research Symposium on Computing	Symposium	Ms. Ankita V. Terkhedkar	20 - 22 Dec 2018
Third National Research Symposium on Computing	Symposium	Ms. P.D. Mundada	20 - 22 Dec 2018
IEEE International Conference on circuits and Digital technology	Kottayam, Kerala	Prof. K.V. Madhale Prof Bashir Jamadar	21, 22 Dec 2018
Finite Element Modelling and its Engineering Applications	Five day Short Term Training Program at D.Y. Patil COE, Kolhapur.	Prof. P. A. Mane	24 - 29 Dec 2018
Novel Modelling Techniques in Biomedical Engg.	MS Sheshgiri College of Engg., Belgavi	Mrs. M. R. Khare	1 - 6 Jan 2019
NPTEL Online (Swayam) From Aug -Oct 2018 (Successfully Completed)	Microprocessors and Microcontrollers	Dr. A. P. Vaidya	Jan - Apr 2019
Cryogenics & Super Conductivity	Four day National Symposium at IIT Mumbai	Dr. M.M. Khot Prof. A.S. Bhandare Prof. P.B. Chougule	15 - 18 Jan 2019
Three day Workshop on Mi- Power	Three Day Workshop on Power System Analysis Using MiPower 9.1	Mrs. A. A. Dhamangaokar	18 - 20 Jan 2019
Course management and technology based teaching	Course management and technology based teaching	Dr. G.R. Munavalli & Dr. K .S. Gumaste	21 - 25 Jan 2019
Course Management and Technology based Teaching	WCE, Sangli	Ms S U Patil	21 - 25 Jan 2019
Course Management and Technology based Teaching	WCE, Sangli	Mrs. M. R. Khare	21 - 25 Jan 2019
Course Management and Technology based Teaching	One Week Workshop at WCE, Sangli.	Dr. D. S More	21 - 25 Jan 2019
Fundamentals of Robotics and AI	Various fields of Robotics in concern with the AI application.	Dr. S. P. Sonavane, Mr. A. A. Urunkar, Ms. A. M. Khot	4 - 8 Feb 2019
Fundamentals of Robotics and Artificial Intelligence	Subject was AI and its scope in Robotics, held at IIT Guwahati	Ms. P.D. Mundada	4 - 8 Feb 2019
National Seminar on communication Recent Developments in Science	Institute of Science, Mumbai	Prof. K.V. Madhale	27, 28 Feb 2019
Attended BoS meeting at SGU Kolhapur	Meeting	Dr P J Kulkarni	20 Mar 2019
Electromagnetics, Microwave, RF and Antenna Design Using Ansys HFSS Tool flow	WCE, Sangli	Mr. S. R. Khedkar	9 – 14 Mar 2019
One Week Workshop on PLC and SCADA using TIA	One Week Workshop at WCE, Sangli.	Mrs. M.M. Tamhankar	8 - 12 Apr 2019
One Week Workshop on PLC and SCADA using TIA	One Week Workshop at WCE, Sangli.	Dr. D. S More	8 - 12 Apr 2019

Applied Deep Learning using Python, Keras & Tensorflow	Hands-on sessions	Mrs. Hetal V. Gandhi	19 - 21 Apr 2019
IIT Roorkee	Simulation of Power Electronic Converters serving to Hydropower plants	Dr. R. P Hasbe	20 - 24 May 2019
Short Term program on Basics of Property Documentation	A short-term Training program was organized by Daulatrao Aher College of Engineering, Banwadi, Karad. The main objective of STTP was to give brief knowledge about different land documents and procedures involved in different land related activities like buy, sell or lease, tendering as well as NA plotting and valuation.	Mr. Magdum Anmol, Mr. Bhosale Gopal, Mr. Mujawar Irfan.	3 - 7 Jun 2019
two week ISTE approved STTP on "Revit Architecture" at Ashta	Two week ISTE approved STTP on "Revit Architecture" at Ashta	Dr. Gumaste K. S.	3 - 13 Jun 2019
Induction Training Programme	Training at IISER,Pune	Miss. Yadav P.P.	6 - 8 Jun 2019
Faculty Development Program on Universal Human Values and Professional Ethics	NIT, Hamirpur	Dr. S.B. Joshi	22 - 28 Jun 2019
FDP Program on Student Induction	IIT, Mandi	Mr.Bashir Jamadar	30-6 Jul 2019
FDP Program on Student Induction	IIT, Mandi	Mr. Kiran Madhale	30-6 Jul 2019
FDP Program on Student Induction	IIT, Mandi	Mr. Anil Powar	30-6 Jul 2019
High Performance Computing	FDP	Ms. A. S. Pawar	15 -19 Jul 2019

### Guest Lecture Delivered by faculty

Name of Faculty	Place	Subject	Date of Lecture
Mr. Kavathekar Bhushan R.	PWD Sangli	Rain Water Harvesting	06 Apr 2018
Mr. A. K. Mali	PWD Sangli	Mix Design of Concrete	06 Apr 2018
Dr. V.D. Salkar	PWD Sangli	Reinforcement Detailing	06 Apr 2018
Dr. G.R. Munavalli	Govt., College of Engg. ,Jabalpur	NBA training Jabalpur	23 - 25 May 2018
Prof. Dr. U. A. Dabade	VJTI, Mumbai	Literature review and Paper writing" at "AICTE QIP FDP on RM for Engineers and management" in Mechanical Engg. VJTI Mumbai.	09 Jul 2018
Dr. G.R. Munavalli	KIT's college of Engg., Kolhapur	One day workshop on Outcome based education	14 Jul 2018
Dr. G.R. Munavalli	KIT's college of Engg., Kolhapur	One NBA mock exercise in Biotechnology Department	4 Aug 2018
Dr. G.R. Munavalli	Willingdon College, Sangli	Environmental science; Scope and Significance" in One week DST-INSPIRE 2018 science camp	29 Aug 2018
Dr. A. P. Vaidya	SGGS-COE, Nanded(As Adjunct Faculty)	H.V. Engineering (7 hrs)	Sep 2018
Dr. A. P. Vaidya	SGGS-COE, Nanded(As Adjunct Faculty)	Microprocessor (2 hrs)	Sep 2018
Dr. D. S More	SGGS-COE, Nanded	Industrial Drives and Control	Sep 2018
Dr. D. S More	SBGI Miraj	AC Machines	Sep 2018

Prof. Dr. B. S. Gawali	Nagesh Karajgi ORCHID COE Solapur	Recent Trends & Cryogenics	15 Sep 2018.
Prof. Dr. B. S. Gawali	Sanjay Bhokare COE Miraj.	Advanced Concept on Refrigeration & Cryogenics	21 Sep 2018.
Dr. A. P. Vaidya	SGGS-COE, Nanded(As Adjunct Faculty)	H.V. Engineering (7 hrs)	Oct 18
Prof P. A. Mane	Daulatrao Aher COE Karad.	Fluid Mechanics	03 Oct 18
Dr. G.R. Munavalli	Govt., polytechnic, Aurangabad	One day workshop on NBA SAR for Diploma programme	17 Nov 2018
Dr. G.R. Munavalli	KIT's college of Engg., Kolhapur	Two week certification course on "Global and national perspective of sustainable sanitation approaches and Technology interventions" 26th Nov., to 8th Dec., 2018 On Low cost water treatment and Decentralized sewage treatment	4 Dec 2018
Dr. G.R. Munavalli	SDM College of Engineering and Technology, Dharwad	Leachate management for the Continuing education programme on Solid waste management for the Karnataka state PWD/Irrigation Engineers	20 Dec 2018
Dr P J Kulkarni	Sanjay Ghodawat University	Recent Advanorithmsces in Alg	21 Dec 2018
Dr P J Kulkarni	VVP Institute Solapur	Evaluation Guidelines NBA	28 Dec 2018
Dr. G.R. Munavalli	WCE Sangli	Create/Update syllabus	21 Jan 2019
Dr. D. S More	Modern Engg college Pune	Converters, IM Modeling and Vector control of IM	Feb 2019
Dr. D. S More	SBGI Miraj	Induction Motor Drives	Feb 2019
Mr. R. G. Datar	WCE, Sangli	System Identification	Feb 2019
Dr. S.U. Sapkal	JEC Jabalpur	Quality control and SQC under Industrial Engg.	18 Feb 2019
Dr. D. S More	SGGI atigre	Industrial Drive	19 Mar 2019
Dr. G.R. Munavalli	SGBIT, Belagavi	Mock NBA inspection	10 May 2019
Dr. D. S More	RIT Sakhrle	Grid integration of Wind Energy	19 May 2019
Mr. A. K. Mali	JEC Jabalpur	'Mix Design of Concrete'	03 Jun 2019
Mr.Kavathekar Bhushan R.	JEC Jabalpur	'Design of Water Distribution System'	03 June 2019
Mr. A. K. Mali	JEC Jabalpur	'Concrete Technology (Acceptance Criteria and Sampling)	03 Jul 2019
Mr.Kavathekar Bhushan R.	JEC Jabalpur	'Career Opportunities in Environmental Engineering'	03 Jul 2019
Mr.A.A.Magdum	JEC Jabalpur	'Construction Project Management'	03 Jul 2019
Dr. N. K. Pikle	WCE Sangli	Importance of GPU in Deep Learning Applications in workshop "Advances and opportunities in Machine Learning"	26 Jul 2019
Dr. N. K. Pikle	Sanjay Ghodawat University	Parallel Computing	27 Jul 2019
Dr. N. K. Pikle	Sanjay Ghodawat University	Parallel Computing	27 Jul 2019

## 4.2 Number of Students from Reservation Categories

### Reservation in UG 2018-19

Admission Category	SC		ST		OBC		Other		Branch Wise Total		Total
Branch	M	F	M	F	M	F	M	F	M	F	
CIVIL	23	11	11	4	42	23	115	52	191	90	281
MECH	28	8	16	1	49	16	133	44	226	69	295
ELECT	21	12	10	6	50	16	116	49	197	83	280
ELN	24	17	7	0	36	21	91	75	158	113	271
CSE	28	24	16	4	56	33	185	97	285	158	443
IT	19	13	10	3	45	24	111	57	185	97	282
Institute Level Total	143	85	70	18	278	133	751	374	1242	610	1852
	228		88		411		1125		1852		

### Reservation in PG 2018-19

Admission Category	SC		ST		OBC		Other		Branch Wise Total		Total
Branch	M	F	M	F	M	F	M	F	M	F	
CIVIL (ENV)	2	2	0	0	2	5	17	6	21	13	34
CIVIL (STR)	4	3	2	1	8	4	32	2	46	10	56
MECH (HP)	5	0	0	0	4	1	25	1	34	2	36
MECH (PR)	6	0	0	0	8	2	33	4	47	6	53
MECH (DSG)	8	1	0	0	14	2	32	2	54	5	59
ELECT ( PS)	6	2	0	0	5	5	15	3	26	10	36
ELECT ( CS)	2	4	0	0	3	6	6	10	11	20	31
ELN	5	5	0	0	8	10	12	17	25	32	57
CSE	8	10	1	0	3	8	16	15	28	33	61
CSE ( IT )	1	2	0	0	0	0	3	8	4	10	14
Institute Level Total	47	29	3	1	55	43	191	68	296	141	437
	76		4		98		259		437		

## 4.3 Interaction with outside world

### Industrial Visits:

Place of Industrial Visit	Coordinator of Industrial Visit	Total Participants	Date of Visit
Educational Visit to Kolhapur Sewage Treatment Plant, Kagal Common Effluent Treatment Plant and Kagal Waste to Energy Plant	Mr. B.R. Kavathekar	18	31 Mar 2018
HAL Nashik	Prof. Dr.U.A.Dabade	1	30 Jun - 02 Jul 2018
JCB India Pvt. Ltd., Talegaon, Tata Motors, ISMT Ahmednagar, & Parason Machinery Pvt. Ltd., Aurangabad	Prof. Dr. U.A. Dabade	26	26 - 28 Jul 2018
Warna Dairy and Manugraph Pvt. Ltd., Kolhapur.	Dr B.S.Gawali	71	31 Aug 2018
Warna Sahakari Dudh Utpadak Sangh Ltd., Dist. Sangli	Dr B.S.Gawali	71	01 Sep 2018



Bharat Steel Industries Sangli.	Prof. J. M. Dabir	65	05 Sep 2018
Rajdhani Refinery & Wire Formers	Prof. J. M. Dabir & Prof. Dr. U.A. Dabade	65	08 Sep 2018
Dhanlaxmi Metal Industries & Tade Power Tech Pvt. Ltd. MIDC Kupwad	Prof. J. M. Dabir	71	06 Oct 2018
Jagdish Iron & Steel & Dattatray Industries, MIDC Miraj	Prof. J. M. Dabir	71	12 Oct 2018
Accurate Engg. Co. Pune & Accurage Guageing, Pune.	Prof. S.U.Sapkal, Prof. S.V. Gaikkwad	77	19 Oct 2018
Automotive Research Association of India, Pune	Prof. P.D. Maskar	31	20 Oct 2018
Budhale & Budhale, Kolhapur	Prof. J. M. Dabir	71	21 Oct 2018
Maresh Forge, GokulShirgaon , Kolhapur	Prof. J. M. Dabir	71	21 Oct 2018
Kudachi and Gokak	Dr. R.S. Desai	33	27 Oct 2018
Bashko Engg. Pvt. Ltd., MIDC, Kupwad.	Prof. Dr. U.A. Dabade & Prof. P.B.Chougule	64	29 Oct 2018
Industrial Visit To Koyana Dam	Mr. C.H. Wagh	125	31 Oct 2018
Finolex Industries Ltd., Ratnagiri, Marine Syndicate, Jaigad, Ratnagiri.	Prof. Dr. U.A. Dabade & Prof. J.M .Dabir	15	16, 17 Nov 2018
‘Visit to Part of Garhwal Himalaya, Uttarakhand’	Mr. P.K. Deshpande	06	25 Dec 2018 – 6 Jan 2019
Kolhapur Oxygen and Acetelyne Pvt. Ltd., Kolhapur.	Prof. Dr. U.A. Dabade	71	27 Dec 18
Goa Engineering College, Farmagudi, Goa	Dr. D S More	10	4, 5 Jan 2019
U R Rao satellite centre Bangalore, Mysore	Mr. R. G. Mevekari	54	14 - 17 Jan 2019
Vikram Sarabhai Space Centre Thiruvananthapuram	Mr. Y. B. Mane	19	19 - 29 Jan 2019
IMTEX 2019, Hindustan Aeronautics Ltd, & Vishweshwarya Technological Museum Bangalore	Prof. Dr. U.A. Dabade, Prof. A. S. Bhandare, Prof. P.B. Chougule	27	22 - 27 Jan 2019
Bangalore (Thoughtworks, TCS, NOKIA, CDAC and Technotree)	Mr. S. S. Sontakke	91	28 Jan - 1 Feb 2019
Rajarambapu Patil Sugar Factory Ltd., KarandwadiAshta Dist. Sangli.	Prof. V.V. Dhende, & Prof. P.D. Maskar. Prof. A.S. Bhandare	29	15 Mar 2019

## TIFAC Details 2018-19

### Students-Internship under TIFAC-RGSTC Grant

Walchand College of Engineering has been selected for the implementation of the prestigious scheme of Rajiv Gandhi Science & Technology Commission (RGSTC) and Technology Information, Forecasting and Assessment Council (TIFAC), Department of Science & Technology, Government of India for providing technical support to the Micro, Small and Medium Enterprises (MSMEs) by leveraging the capabilities of students and faculty of engineering & technical institutions.

This ongoing scheme has enhanced the involvement of students and faculty of the college with industries. Through this scheme the students and faculty are providing technical support to the otherwise technologically deficient MSMEs. More importantly, such a process is able to nurture an innovation ecosystem which is benefiting both the MSMEs as well as the technical institutions.

The objectives of the scheme are:

- Creation of a platform for establishing interaction between academia and MSME industries on a mutually win-win basis

- Establishing a platform for the MSME cluster industries to access R&D and technical support leveraging the knowledge base of faculty and knowledgeable human resource in the form of students.
- Providing hands on engagement and practical experience to the students and faculty on existing technical challenges in the industry and,
- Nurturing an innovation ecosystem that benefits both the industry as well as the technical institution. The students are paid stipend for working on the industry problems under the scheme. "The scheme is successfully running for the session 2017-18. This scheme is already sanctioned for the session 2018-19"

### About TIFAC

Technology Information, Forecasting and Assessment Council (TIFAC) is an autonomous organization set up in 1988 under the Department of Science & Technology to look ahead in technologies, assess the technology trajectories, and support technology innovation by network actions in select technology areas of national importance. In 1993, TIFAC embarked upon the major task of formulating a Technology Vision for the country in various emerging technology areas and prepared the Technology Vision 2020 for technology development of the country by leveraging technology innovation through sustained and concerted programmes in close association with academia and industry.

### About RGSTC

For the advancement, propagation and promotion of applications of science and technology to the various problems faced by the society and to the developmental work, Government of Maharashtra has formed Rajiv Gandhi Science & Technology Commission.

UG students get scholarship of Rs. 5000/- pm for Summer-Internship and shortlisted students Rs. 10000/- pm for doing project in Small and Medium Scale Industries

RGSTC-TIFAC-MSME Internship Scheme for providing technical support to the Micro Small and Medium Enterprises

**1st Stage-** Duration: 2 months; 30 Students undergone internship in 13 MSMEs

**2nd Stage-** Variable Project Based Technology Development Support; Project Duration: 6 months; Total 3 projects selected

### Students-Internship under TIFAC-RGSTC Grant

Details of Industry and Students RGSTC-TIFAC Scheme Phase-I 2018-19				
Sr No	Industry Name	Project Title	Student Name	Branch
1	A Plus Electricals, Sangli	Solar Based Artificial Egg Hatching Incubator	Sayali Hansraj Dabhade	Electronics
			Vaishnavi Vishnu Patil	Electronics
			Gadade Akash Mayappa	Electrical
2	A Plus Electricals, Sangli	Solar Based Fire Detection And Extinguisher	Tejshree Sanjay Ghogale	Electronics
			Priya Rajesh Bhosale	Electronics
			Vaishnavi Dattatray Avhad	Electronics
3	Epiphany P Ltd, Sangli	Health Monitoring Of Old Railway Bridges	Shubham Santosh Kalyankar	IT
			Jagdale Pragati Baburao	Electronics
			Chavan Mrunali Sanjay	Electronics
			Gubyab Snehal Shrishail	Electronics
			Komal Satishkumar Chandak	Electronics
4	Fine Spavy Pvt. Ltd, Miraj	Xylon Coating For Corrosion Resistance	Rushikesh Shamrao Kabadi	Mechanical
			Vaibhav Dnyaneshwar Wankhade	Mechanical
			Arjit Banerjee	Mechanical
5	HEM Electronics, Miraj	Intelligent Object Locator	Disha Dinkar Nikam	Electronics
			Sumit Kailas Shinde	Electronics

6	Prasaditi Equipments, Miraj	Design And Development Of Evaporative Water Cooler	Prasanna Pramod Karche	Mechanical
			Makarand Godbole	Mechanical
7	Praxis Infotech Pvt. Ltd, Sangli	Chatdoc	Kautubh Joshi	IT
			Vatsala Satpal Singh	IT
			Krishna Kabra	IT
8	Praxis Infotech Pvt. Ltd, Sangli	Doc Doc Go	Rahul Joshi	IT
			Yash Arvind Singh	IT
			Harikrishna Chippa	IT
9	Systems & Controls Pvt. Ltd, Miraj	Design Of Passive Harmonic Filter	Anuradaha Lipare	Electrical
			Sushmita Chavare	Electrical
			Tejaswini Chavan	Electrical
10	Unity Engg, Pvt. Ltd, Kolhapur	Design Of MAHASOLAR App	Anees Wahid Salati	Electrical
			Siddhesh Kasbekar	Electrical
			Chinmay Atul Alamvar	IT

Details of Students and Industries for TIFAC Phase 2 - Scheme 2018-19.			
Sr. No.	Name	Industry Name	Project Name
1	Prasanna Karache	M/s Mechsun Industries, Sangli	Design and Development of Evaporative water cooler
2	Makarand Godbole		
3	Akash Gadade	A Plus Electrical Solution	Design and Development of Egg Hatching Incubator
4	Vaishnavi Avhad		
5	Sayali Dabhade		
6	Pragati Jagdale	Epiphany P Ltd, Sangli	Health Monitoring of Old Railway Bridges
7	Mrunali Chavan		

### Evaluation Meeting at WCE Sangli





Following projects were selected for presentation

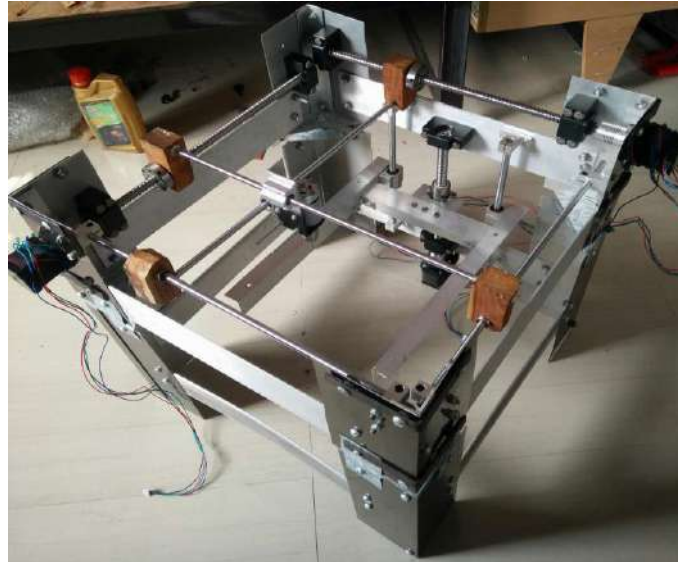
### Retrofitting of Old Stone Masonry bridges



### Temperature monitoring system



### Multipurpose CNC Machine



### MoU's Signed with Industries and Institutes

In order to increase the interaction with Industries and other renowned Institutes many MoUs were signed by the institute. The details of these MoUs are given below:

#### Academic

1. Bharati Vidyapeeth Deemed Uni., Medical College & Hospital, Sangli (01.01.2016)
2. Government Engineering College, Jabalpur (21.07.2017)
3. Government College of Engineering, Karad (12.08.2017)
4. ABVP & Srijan Trust-Sangli-(29.01.2018)
5. The Organizing Committee of ICCET-2019, BATU Lonere (10.07.2018)
6. Rajaram Institute of Technology, Rajaramnagar (04.09.2018)
7. Annasaheb Dange college of Engg, Ashta (01.10.2018)
8. Adarsh Institute of technology and research Centre, Vita (01.10.2018)
9. Dr. J.J. Magdum College of Engg, Jaysingpur (01.10.2018)
10. N.K. Orchid College of Engineering and Technology, Solapur (01.10.2018)
11. Padmabhooshan Vasantraodada Patil Institute of Technology, Budhgaon (01.10.2018)
12. Sanjeevan Engineering and Technology Institute, Panhala (01.10.2018)
13. Sanjay Bhokare group of Institutes, Miraj (01.10.2018)
14. Sharad Institute of Technology College of Engg, Yadrav (01.10.2018)
15. Tatyasaheb Kore Institute of Engg and Technology, Warananagar (01.10.2018)
16. Shri Vithal Education and Research Institute's college of Engg, Pandharpur (01.10.2018)
17. Vishveshwaraya Technical campus, Patgaon, Miraj (01.10.2018)
18. Ashokrao Mane group of institution, Vathar (01.10.2018)

#### Industry:

1. Reliance Infrastructure Ltd., Dahanu (24.06.2016)
2. MSETCL/Mahatransco-Hatkanagale-(6.10.2016)
3. Perfect Consultancy Kolhapur-(13.12.2016)
4. Robocart.com, Tech enclave Mumbai (04.03.2017)
5. Samruddhi TBI Foundation, Sangli (30.06.2017)
6. 3D PLM Software Solutions Ltd., Pune (28.07.2017)
7. Eduvance, Vanmat Technologies Pvt. Ltd., Mumbai (18.11.2017)

8. Wadia-Tecno-Engg, Mumbai (14.05.2018)
9. Innovative Infocom & IT Parks Pvt. Ltd., Navi Mumbai (04.08.2018)
10. Rathi Tech services Pvt. Ltd., Pune (06.10.2018)
11. Red Hat India Pvt. Ltd, Mumbai (24.10.2018)
12. Tata Consultancy Services, Ltd., Pune (23.11.2018)
13. RGSTC-TIFAC, Mumbai (12-12-2018)
14. Structwell Designers and Consultants Pvt. Ltd., Mumbai (13-12-2018)

Most of these MOU's with Industries are aimed at increasing interaction with our Institute. Industry People will participate in the BOS to help in curriculum development. A few of these industries such as John Deere, Danfoss, Mentor Graphics have helped in development of Laboratories by donating hardware and software to the Institute, Industry Internship, Live Project, Project competitions for our students, Financial support during various Students events. Instituting Awards for the best performing students such as Best Project Award and Best Student of the Year by TCS. Organizing Students and Faculty Training Programs. Placement for our students, Participation as Judges in Technical Events or in Oral Viva Examinations of the students. etc.

### **UG Internship in the Industry:**

Final Year UG students were placed in different Industry for 5 Months. During this period they carried out their Project and Thesis work in the Industry and gave one subject on self-study mode. Their progress seminars and final Viva was conducted in the Institute.



## 5. DIPLOMA WING ANNUAL ACTIVITIES

### 5.1 Admission Details 2019-20:

Polytechnic Wing of Walchand College of Engineering is one of Top Institutes in all Polytechnic Colleges in Maharashtra as per the Admission Cut off every year are concerned.

Comparative Cut-Off Marks For Round-I

Sr. No.	Branch (Intake)	W.C.E Sangli	G.P Pune	G.P Karad	G.P Miraj	G.P Mumbai	G.P Kolhapur
1	Civil Engg (46)	90.0	87.40	86.40	80.80	78.40	84.60
2	Mechanical Engg (69)	88.88	90.20	84.80	82.20	84.00	84.40
3	Electrical Engg (69)	91.40	85.60	90.00	-	82.00	86.80
4	Ind. Electronics (46)	89.00	-	-	-	-	77.00

### 5.2 Faculty Details:

	Sanctioned	Regular	Ad-hoc	Total
Vice Principal	1	0	0	0
HOD	4	2	0	2
Lecturer	34	21	0	21
System Analyst	1	0	0	0
Total Faculty	40	23	0	23

### Regular Diploma Faculties as on June 2019:

Sr.	Name of Faculty	Age	Designation	Qualifications	Experience
	<b>Mechanical Engineering Department</b>				
1	Kamble Ashok Vishnu	52	I/c HOD Mechanical Engg	M.E. Mechanical	29
2	Urunkar Deepak Baburao	51	Lecturer in Mechanical Engg.	M.E. Mechanical	26
3	Anuse Bhargawaram Aganu	51	Lecturer in Mechanical Engg.	M.E. Mechanical	27
4	Tikekar Hemant Narayan	53	Lecturer in Mechanical Engg.	M.E. Mechanical	29
	<b>Civil Engineering Department</b>				
5	Kulkarni Harshad Purushottam	47	HOD civil Engg	M.E. Civil	22
6	Kadam Kashinath Shankar	55	Lecturer in Civil Engg.	B.E. Civil	31
7	Kulkarni Sunil Narayan	57	Lecturer in Civil Engg.	M.E. Civil	31
8	Chikurde Sunil Vasant	53	Lecturer in Civil Engg.	M.E. Civil, DCS, DBM	24
9	Kamble Nitin Nivrutti	46	Lecturer in Civil Engg.	M.E. Civil	24
	<b>Applied Mechanics</b>				
10	Pophare Sanjiv Mahadeo	51	Lecturer in Applied Mechanics	M.E. Civil	22
	<b>Electrical Engineering Department</b>				
11	Rajendra Gangaram Bhosale	58	HOD Electrical Engg. I/c VP (PW)	B.E. Electrical	35
12	Mane Jayawant Yashwantrao	51	Lecturer in Electrical Engg.	B.E. Electrical	29
13	More Adikrao Shamrao	52	Lecturer in Electrical Engg.	M.E. Electrical	28
14	Dr. Apte Narayan Gangadhar	46	Lecturer in Electrical Engg.	M.E. Electrical, Ph.D.	22
15	Bhosale Akshay Rajendra	32	Lecturer in Electrical Engg.	M.Tech. Electrical	9
16	Kamble Sushant Subhash	29	Lecturer in Electrical Engg.	M. Tech. Electrical	5
	<b>Electronics Engineering Department</b>				
17	Dr. Agashe Anil Anant	51	Lecturer in Electronics Engg.	M.E. Electronics, Ph.D.	29
18	Patil Pradeep Bhausaheb	51	Lecturer in Electronics Engg.	M.E. Electronics	29
19	Dr. Sulakhe Vinayak Vishwanath	51	I/c HOD Electronics Engg	M.E. Electronics, Ph.D.	29

20	Narayankar Nitin Siddheshwar	35	Lecturer in Electronics Engg.	M.Tech. Electronics	12
21	Chavhan Sachin Ulhas	35	Lecturer in Electronics Engg.	M.E. Electronics	9
<b>Applied Science Department</b>					
22	Agnihotri Hemant Ramchandra	54	Lecturer in Physics	M.Sc. Physics, D.C.S.	33
23	Dr. Vhankhande Balasaheb Bhimarao	42	Lecturer in Physics	M.Sc. Physics, Ph.D.	21
<b>Average Age</b>		<b>48</b>	<b>Average Experience</b>		<b>24</b>

### 5.3 Faculty Activity Details:

#### Consultancy works:

Sr. No.	Name of work & Client	Types of work	Consultancy work (Fee) Rs.	Consultants	Remark
1	54 MLD capacity W T P at Ichalkaranji Municipal council by Ichalkaranji Municipality	Technical Audit & Inspection	4,49,275	S. N. Kulkarni & K.S. Kadam	Work in Process
2	Talimkhana W/S Rajapur Municipal Council	Technical Audit & Inspection	32922	S. N. Kulkarni & K.S. Kadam	Work completed
3	W/s Scheme for village Jambhulni Dist. Satara - E.E. R.W/S. Z. P. Satara	Technical Audit & Inspection	10,002	S. N. Kulkarni & K.S. Kadam	Partially Completed
4	W/s Scheme for four villages Dist. Satara E.E. R.R.W/S Z.P. Satara	Technical Audit & Inspection	1,30,156	S. N. Kulkarni & K.S. Kadam	Partially Completed
5	W/s Scheme for Two villages Dist. Satara E.E. R.R. W/s Z.P.	Technical Audit & Inspection	7,60,695	S. N. Kulkarni & K.S. Kadam	Partially Completed
6	W/s Scheme for Four villages Dist. Satara E.E. R.R. W/s Z.P.	Technical Audit & Inspection	3,09,199	S. N. Kulkarni & K.S. Kadam	Partially Completed
7	W/s Scheme for Eleven villages Dist. Satara E.E. R.R. W/s Z.P.	Technical Audit & Inspection	11,35,000	S. N. Kulkarni & K.S. Kadam	Partially Completed
8	Dudhali 17 MLD Sewage Treatment Plant and other Civil works as per Tender Documents	Technical Audit & Inspection	8,68,761	S. N. Kulkarni & K.S. Kadam	Completed
9	Development and Renovation of Kalamba Lake at Kalamba Lake Parisar, Kolhapur	Technical Audit & Inspection	3,04,216	S. N. Kulkarni & K.S. Kadam	Completed
10	W/s Scheme for Randullabad & Kolki villages Dist. Satara E.E. R.R. W/s Z.P. Satara	Technical Audit & Inspection	9,06,621	S. N. Kulkarni & K.S. Kadam	Completed
<b>Total Consultancy Amount in Rs.</b>			<b>47,24,847</b>		

#### Number of co-curricular activities performed

SN	Nature of Activity	Department			
		Civil Engineering	Electrical Engineering	Mechanical Engineering	Industrial Electronics
1	Industrial Visits	11	7	10	4
2	Industry Expert Lectures	6	9	6	6
3	Industry Based Projects	2	1	0	2
4	Learning Resources Development	3	25	10	0
5	Industrial Trainings Deputations	10	74	0	0



6	Faculty Trainings Deputations	5	6	3	5
7	Faculty Trainings Organized	2	1	1	0
8	No. of faculty deputed for/ completed improvement of academic qualification	2	1	4	0
9	Project paper presentation	4	22	4	1
10	Technical Quiz participation	4	14	10	4
11	Career fair	0	1	0	0
12	Project institute	0	4	0	2
13	Curriculum development	1	4	0	0
14	CEP activities	1	2	3	2
15	Programmes conducted for personality development	3	5	2	12
16	Participation in sports (IDSSA)	19	35	42	4
17	MOUs with for participation in academic development of institute	2	4	4	0
18	Organisation of technical quiz/ seminar/ paper presentation competition events	2	2	4	0
19	Social activities like blood donation camp/ tree plantation etc.	2	3	2	2
20	Industry sponsored final year projects of students	2	1	0	2
21	Application oriented final year projects of students	6	2	16	10
22	Study based final year projects of students	2	5	0	0
23	Vacation training organized for students	40	2	70	20

#### Ph.D. details of Regular WCE Diploma Faculty

S N	Name of Faculty	Name of Guide, Branch	Date of Registration /University	Title of the Thesis	Completed on
1	Dr. N. G. Apte	Dr. V.N. Bapat, Electrical	JUNE 2006 SUK	Design analysis and implementation of Voltage source inverter based power quality conditioner	Jan. 2014
2	Dr. A.A. Agashe	Smt. Dr. R.S. Patil Electronics	30 June 2006 SUK	Studies on localization algorithms in wireless Networks: A special reference to sensor network.	March 2015
3	Dr. V.V. Sulakhe	Mrs. Dr. S. D. Apte Electronics	01 Jan 2006 SUK	Development of efficient routing protocols for Application specific wireless sensor networks	April 2016

4	Dr. B.B. Vhankhande	Mrs. Dr. Vijaya Puri-Physics	30 June 2000 SUK	Investigations on the microwave transmission and reflection of polyaniline thin films and it's overlay effects on micro-strip components	July 2007
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### Regular Diploma Faculty Ongoing Ph.D. details

Sr. No.	Name of Faculty	Name of Guide/ Branch	Date of Registration/Univ.	Title of the Thesis
1	S. M. Pophare	Dr. S. H. Jadhav, Civil Engineering	Feb. 2015 R.I.T., Islampur Shivaji Univ. Kolhapur	Elasto-Plastic Behavior of doubly curved thin shells
2	S.V. Chikurde	Dr. V V. Karjini	Aug 2019 Shivaji Univ. Kolhapur	A study for developing IoT enabled solid waste management for smart city
3	N.N. Kamble	Dr. P.S. Patil	Aug. 2018 Shivaji Univ. Kolhapur	Investigation on stone dust stabilized block masonry using manufactured sand as fine aggregate in cement mortar.
4	B. A. Anuse	Dr. S.P. Chavan, Mechanical Engineering	Feb. 2012 WCE, Sangli Shivaji Uni. Kolhapur	Design and Development of a Bagasse Dryer to Increase Thermal Efficiency of sugar cane Power Plant

- Patent is filed by Dr. N.G. Apte, Electrical Dept.: "A System And Method For Detecting Unbalance Of A Rigid Rotor Using A Dynamic Balancing Machine" Application No.300/MUM/2013/A

### 5.4 Result Analysis of Diploma Examinations 2018-19:

First Year								
Branch	Total	% 90+	% Dist.	% First	% Second	% ATKT	% Fail	% Pass
Civil Engineering	40	2.5	50	35	2.5	12.5	0	100
<b>Mechanical Engineering</b>	<b>63</b>	<b>4.76</b>	<b>52.38</b>	<b>33.33</b>	<b>3.17</b>	<b>6.36</b>	<b>0</b>	<b>93.65</b>
Electrical Engineering	61	6.55	63.93	21.31	0	11.49	3.27	96.73
Industrial Electronics	41	0	51.21	21.95	4.87	12.19	7.31	92.68
<b>Total/%Average</b>	<b>205</b>	<b>3.45</b>	<b>54.38</b>	<b>27.90</b>	<b>2.64</b>	<b>10.64</b>	<b>2.65</b>	<b>95.77</b>
Second Year								
Branch	Total	% 90+	% Dist.	% First	% Second	% ATKT	% Fail	% Pass
Civil Engineering	51	0	35.3	27.45	13.72	9.8	13.72	86.27
<b>Mechanical Engineering</b>	<b>73</b>	<b>0</b>	<b>50.68</b>	<b>36.98</b>	<b>0</b>	<b>8.21</b>	<b>4.1</b>	<b>87.67</b>
Electrical Engineering	75	24	61.33	25.33	10.66	2.68	0	100
Industrial Electronics	45	16.66	58.33	25	2.08	0	12.5	95.55
<b>Total/%Average</b>	<b>205</b>	<b>10.17</b>	<b>51.41</b>	<b>28.69</b>	<b>6.62</b>	<b>5.17</b>	<b>7.58</b>	<b>92.37</b>
Third Year								
Branch	Total	% 90+	% Dist.	% First	% Second	% ATKT	% Fail	% Pass
Civil Engineering	49	12.24	79.6	10.2	0	0	10.2	89.79
<b>Mechanical Engineering</b>	<b>73</b>	<b>19.18</b>	<b>57.33</b>	<b>15.07</b>	<b>0</b>	<b>0</b>	<b>8.22</b>	<b>91.78</b>

Electrical Engineering	72	43.05	81.94	6.95	0	0	11.11	88.89
Industrial Electronics	41	27.27	77.27	14.63	0	0	6.81	93.18
<b>Total/%Average</b>	<b>205</b>	<b>25.44</b>	<b>74.04</b>	<b>11.71</b>	<b>-</b>	<b>-</b>	<b>9.09</b>	<b>90.91</b>

## List of Toppers

Rank	FY		SY		TY	
	Name	% Marks	Name	% Marks	Name	% Marks
<b>Civil Engineering</b>						
1	Patil Prachi Ulhas	91.16	Bhagat Rohan Rajaram	87.25	Khandekar Priya Sanjay	92.48
2	Ankalkhope Samruddhi Rajendra	85.79	Chavan Rohit Sambhaji	86.38	Pise Mahesh Anant	91.58
3	Patil Anushka Mansing	85.47	Mali Kunal Chakravarti	86	Vadgave Aditya Deepak	90.91
4	Mahajan Yash Umesh	85.37	Kate Shruti Sanjay	85	MIrasdar Sayali Rajesh	90.67
5	Kadam Aadya Satish	84.84	Zambare Namrata Nandakumar	84.13	Koli Rohit Sudam	90.30
<b>Mechanical Engineering</b>						
1	Jadhav Dhairyashil Vitthal	92.7	Bele Rohit Sanjay	87.49	Kadam Sankat Deepak	95.47
2	Janawekar Omkar Ravindra	91.37	Koshti Nikhil Vasant	86.20	Sutar Nilesh Rajendra	94.71
3	Mali Om Chandrashekhar	90.11	Desai Koustubh Keshav	85.94	Wangikar Akshay Pramod	94.24
4	Jadhav Suraj Sandeep	88.95	Kulkarni Mayur Ashok	85.66	/Pawar Sonali Hamnant	94.06
5	Patil Anuj Sunil	88.95	Bodagire Prajwal Raghunath	85.62	Sutar Yasin Munna	93.82
<b>Electrical Engineering</b>						
1	Borigidde Pranali Rajendra	93.13	Magdum Vijayalaxmi Ramesh	93.07	Panhali Tarannum Riyajahamad	98.00
2	Mujawar Najrin Ramajan	92.75	Mali Shubham Rajaram	92.00	Mujawar Suhana Mahamadrafik	97.21
3	Gaganmale Nikita Ankush	92.00	Sawant Shruti Shrikant	91.73	Vishwakarma Achal Nandlal	96.67
4	Khade Vaishnavi Pandit	91.25	Patil Dhanashree Manikrao	91.47	Koshti Swarupa Rajendra	96.30
5	Kumbhar Rutuja Vijaykumar	91.00	Kulkarni Shambhavi Umesh	91.47	Yadav Siddhesha Prashant	96.0
<b>Industrial Electronics Engineering</b>						
1	Patil Aditi Hemantrao	85.93	Jamdade Sayali Subhash	93.48	Chadha Keeratkaur Satpal	95.77
2	Kulkarni Sakshi Sunil	84.13	Patil Dhanashree Ravindra	92.19	Misal Disha Digambar	95.08
3	Chinde Pranay Subhash	83.51	Kadam Anushka Bhimrao	92.12	Ingale Vaishnavi Moreswar	94.11
4	Wale Vaishnavi Ashutosh	82.82	Pawar Sayali Kumar	92.06	Masutage Poonam Abhaykumar	93.88
5	Madawan Arati Prakash	82.34	Patil Anushka Avinash	91.54	Dharangute Nikita Shantinath	93.42

M.S.B.T.E., Mumbai awards the top 3 ranker's in Maharashtra State. Every year our Diploma students are consistently ranker's of State Merit List and are awarded by M.S.B.T.E.

**1) Out of 3 State Ranker's of Ind. Eln. Branch, two are our college students.**

(1)Miss. K. S. Chadha - Award of Rs. 5,000/- for First Rank in Maharashtra.

(2)Miss. D. D. Misal - Award of Rs. 3,000/- for Second Rank in Maharashtra.

**2) Out of 3 State Ranker's of Electrical Branch, all the three are our college students.**

(1)Miss. T. R. Panhali - Award of Rs. 5,000/- for First Rank in Maharashtra.

(2)Miss. S. M. Mujawar - Award of Rs. 3,000/- for Second Rank in Maharashtra.

(3)Miss. A. N. Vishwakarma - Award of Rs. 2,000/- for Third Rank in Maharashtra.

**3) Out of 3 State Ranker's of Mechanical Branch, two are our college students.**

(1)Mr. S. D. Kadam - Award of Rs. 5,000/- for First Rank in Maharashtra.

(2)Mr. N. R. Sutar - Award of Rs. 3,000/- for Second Rank in Maharashtra.

## 5.5 Co-Curricular and Extra-Curricular Activities of the Students:

Students participated in most of the events at IDESSA and other sports events. Following is the Department wise Summary of the Sports Participation and the performance of students of our institute in IEDSSA – B<sub>2</sub> Zone Diploma Sports for 2018 –19:

### Student Extra-curricular Activities:

Sr. No	Type Of Activity And Details (Sports Drama/ Social/NSS Etc)	Date	Name Of Participating Students	Organising Body/Organising Institution	Award (Winner /Participant)	Level State/ National Etc
1	Sports (Shot-put)	Jan 2019	Poonam D Karande	IEDSSA M. S.	Runner Up	Inter Zonal
2	Sports (Disc Throw)	Jan 2019	Poonam D Karande	IEDSSA M. S.	Runner Up	Inter Zonal
3	Sports (Weight Lifting)	18/1/2019	Kunal C Mali	IEDSSA M. S.	Winner	Inter Zonal
4	Sports (Weight Lifting)	18/1/2019	Vaibhav A Kumbhar	IEDSSA M. S.	Winner	Inter Zonal
5	Sports (4x100 m Relay)	21/1/2019	Aditya P Sonawalkar	IEDSSA M. S.	Winner	Inter Zonal
6	Sports (Table Tennis)	Jan 2019	Shruti S Kate	IEDSSA M. S.	Runner Up	Zonal Sports
7	Sports (Kabaddi)	Jan 2019	WCE, Sangli (PW)	IEDSSA M. S.	Winner	Zonal Sports
8	Sports (Weight Lifting)	18/1/2019	Kunal C Mali	IEDSSA M. S.	Runner Up	Zonal

### Guest Lectures Organized

SN	Name of Speaker	Place	Subject	Date
1	Dr. S. R. Kulkarni	Mech. Dept., WCE Sangli	Total Quality Management	14-2-2019
2	Mr. Sanjay Ranade	Mech. Dept., WCE Sangli	Solar Applications	13-2-2019
3	Mr. Vinod Patwa	Mech. Dept., WCE Sangli	New Electrical Technologies for two wheelers	8/1/2019
4	Mr. A. A. Rajput	Mech. Dept., WCE Sangli	Electrical Safety	11/1/2019

	Mr. Tahir Bagwan			
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### Guest Lectures Delivered by the Faculty

SN	Name of Faculty	Place	Subject	Date
1	Dr. Vinayak V. Sulakhe	WCE, Sangli	Guidelines to Parents and Students on First and Second year Polytechnic Centralized Admission Process 2017	23 June 2017
2	Dr. Vinayak V. Sulakhe	WCE, Sangli	Orientation Program on 'I' Scheme for Polytechnics for Semester I & II	27 June 2017
3	Dr. Vinayak V. Sulakhe	Yashwantrao Chavan Polytechnic, Ichalkaranji, Kolhapur	Innovative Teaching Process, Assessment and Evaluation in 'I' Scheme	19 August 2017
4	Dr. Anil A. Agashe	Sanjay Ghodawat Polytechnic, Atigre, Kolhapur	Orientation Program on 'I' Scheme for Polytechnics for Semester III & IV	19 June 2018
5	Mr. Pradeep B. Patil	Shri. Siddeshwar Women's Polytechnic, Solapur	Orientation Program on 'I' Scheme for Polytechnics for Semester III & IV	22 June 2018
6	Dr. Vinayak V. Sulakhe	WCE, Sangli	Orientation Program on 'I' Scheme for Polytechnics for Semester III & IV	22 June 2018
7	Dr. Anil A. Agashe	WCE, Sangli	Orientation Program on 'I' Scheme for Polytechnics for Semester III & IV	22 June 2018
8	Mr. N. N. Kamble	PWD Sangli	Maintenance and Rehab of Structures	06 April 2018

SN	Subject	Location	Coordinator	Date
1	Professional Practices III	Ashirwad Developers Bhirangi Landmark Vishrambagh Sangli.	Miss T. G. Pawar	27/09/2018
2	Public Health Engineering	Bharati Hospital Sewage Treatment Plant, Miraj	Prof. S.V. Chikurde	01/10/2018
3	Public Health Engineering	Miraj Water Treatment Plant, SMKCC	Prof. S.V. Chikurde	24/09/2018
4	Civil engineering workshop	Vora Builders, Chetna petrol pump, Sangli	Miss. T.K.Rugge	1/02/2019
5	Civil engineering workshop	Vora Builders, chetna petrol pump, sangli	Miss. T.K.Rugge	1/02/2019
6	PROJECT	Ajanta Industries Nagaon	Prof. N.N. Kamble	17/01/2019
7	Irrigation	Radhanagari Dam, Radhanagari, Kolhapur	Prof.K.S.Kadam	08/02/2019
8	Highway Engg.	NHAI, Konkan Region	Prof. N.N. Kamble	09/02/2019

### Training Programs Attended by Faculty:

SN	Topic	Venue	Faculty	Duration/Date
1	Industrial Training	SITRAIN Siemens , Navi Mumbai	N S Narayankar	23-27 Sept 2019
2	Industrial Training	SITRAIN Siemens , Navi Mumbai	S V Chavan	23-27 Sept 2019
3	IOT	GP , Pune	N S Narayankar	11-15 Mar 2019

4	IOT	GP , Pune	S V Chavan	11-15 Mar 2019
1	FDP on NBA (DTE sponsored)	Government Polytechnic, Karad	Mr. H P Kulkarni	4 to 8-feb 2019
2	Content updation of Geospatial inputs for enabling Master plan formulation	Walchand College of Engineering Sangli	Mr. N N Kamble	23to 27 July 2018
3	Content updation of Network technologies in smart applications”	Walchand College of Engineering Sangli	Mr S V Chikurde	27/09/2018to 01/10/2018
4	Content updation “FEA in Geotechnical Engg. using Plaxis 2D”	Walchand College of Engineering Sangli	Mr. S N Kulkarni	20 to 24 Feb 2019
5	STTP on “Needs of Quality Education”	DKT’s YC Polytechnic, Ichalkaranji	Mr. S N Kulkarni	30 Jan to 2 Feb 2019
6	Solid Waste Management for Smart Cities.	GH Raisonni CoEM, Wagholi, Pune	Mr S V Chikurde	01-02 March 2019
7	M/S Bosch Company, Industrial Training Program	D.Y. Patil Inst. Ambi MIDC, Talegaon	Mr. H. N. Tikekar	9 <sup>th</sup> July to 13 <sup>th</sup> July 2018
8	Quality Assurance through Accreditation	G. P. Karad	Mr. D. B. Urunkar	4th Feb. to 8th Feb. 2019
9	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. A.V.Kamble	22 <sup>nd</sup> June 2018
10	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. B. A. Anuse	22 <sup>nd</sup> June 2018
11	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. D. B. Urunkar	22 <sup>nd</sup> June 2018
12	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. H. N. Tikekar	22 <sup>nd</sup> June 2018
13	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. S. P. Mulye	22 <sup>nd</sup> June 2018
14	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. M. S. Patil	22 <sup>nd</sup> June 2018
15	I – Scheme Curriculum Orientation Program	WCE SANGLI	Miss A. G. Londhe	22 <sup>nd</sup> June 2018
16	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. P. S. Yadav	22 <sup>nd</sup> June 2018
17	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. A. P. Borkar	22 <sup>nd</sup> June 2018
18	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. A. V. Walvekar	22 <sup>nd</sup> June 2018
19	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. R. G. Pujari	22 <sup>nd</sup> June 2018
20	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. S. B. Akiwate	22 <sup>nd</sup> June 2018
21	I – Scheme Curriculum Orientation Program	WCE SANGLI	Mr. N. V. Mate	22 <sup>nd</sup> June 2018
22	I – Scheme Curriculum	WCE SANGLI	Ms. A. V. Kamble	22 <sup>nd</sup> June 2018

	Orientation Program			
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## Placements:

Sr. No.	Name of Industry approached for Campus Interview	No. of Students Selected	Salary offered
1	Shapoorji Pallonji and Company Pvt. Ltd.	7	2.4 LPA
2	Larsen and Tourbo Ltd.	2	1.8 LPA

## 5.6 Other Departmental Activities

### A) Department of Civil Engineering



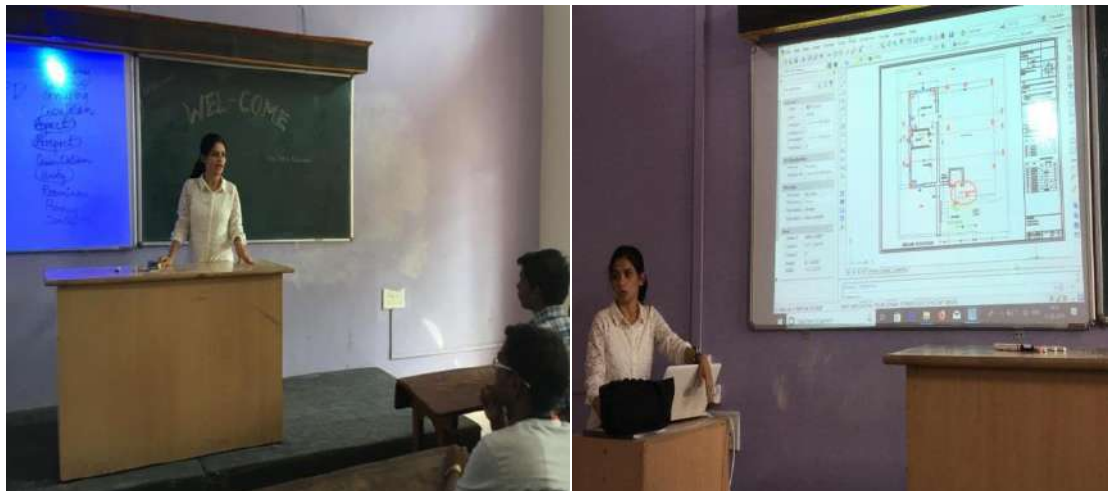
Title	Av. Area Sqm	Required Area Sqm
Administrative	3261.83	2160
Instructional	17028.26	12960
Amenities	5923.93	4320
Circulation	5973.70	5832
Total area	32187.72	25272

More than norms

Sr. No.	Name of the Laboratory/Workshop	Required Area (Sqm)	Carpet area available (Sqm)
1	Environmental	66.00	101
2	Survey	66.00	88.94
3	Geotechnical	66.00	167.28
4	Fluid mechanics	66.00	242
5	Transportation	66.00	215.19
6	Computer	66.00	81.42
7	Geology	66.00	121
8	Material Testing	66.00	80.00
9	Civil Drawing Hall	132.00	736.06
Total			1820.89



**Speaker: Mr. Mahaveer Chougule**  
Date: 28/08/2018 (for SY & TY Civil)



**Speaker: Ar. Smita Kulkarni**  
Date: 16/02/2019  
Subject: Building Planning and Drawing for SY Civil





**Speaker: Mr. Anant Khadkar**

Subject: Entrepreneurship

Date: 11/02/2019



Site: Bharati Hospital Sewage treatment plant (T.Y.Civil) Date:01/10/2018

## B) Department of Electrical Engineering

Laboratory Information			
Sr. No.	Name of Laboratory	No. of Major Equipment	Total cost of Equipment's and Furniture in the laboratory
1	Control Systems Laboratory	13	4429968
2	Electrical Computer Laboratory	19	5315395
3	Electrical Machines Lab	15	690040
4	Electrical Power Systems Laboratory	17	3582239
5	Microprocessor Laboratory	4	142931
6	Electrical Measurement Laboratory	10	263249

7	Power Electronics Laboratory	4	818235
8	Electrical and Electronics Circuit Laboratory	13	4429968
9	Power Quality and Harmonics Lab.	19	5315395
10	Instrumentation and Process Control Lab.	15	690040
11	Basic Electrical Lab.	17	3582239



## Expert Lectures

Sr. No.	Name of Guest	Topic
1	Dr. A.P. Vaidya	Switch gear and protection
2	Prolific systems and technology PVT LTD Pune	Industrial automation
3	A. B. Shikalgar (MSEB)	Effect of electric current on human body
4	Dr. D. G. Pawar (Medical officer)	Health is wealth
5	C.S. Kumbhar (Dy. EE. MSEB)	Electrical safety
6	Sandeep Gaikwad(Fire officer,SMKC,Sangli)	Fire safety
7	P. B.Wagh (Dy. EE.MSEB)	Earthing and its importance
8	Amit Kulkarni	Firefighting and disaster management



## Personality Development

Sr. No.	Speaker	Topic
1	Dr. Tara Bhawalkar	Social safety for Ladies
2	Shri Rajesh Chauhan	Personality Development
3	Mr & Mrs. Han (South Korea)	Healthy Bodies
4	Smt Swati Kotibhaskar	Awareness on our defenses services



## Industrial Visits

- Hydro Electric Power Plant, Chandoli, Dist. Sangli.
- JSW Thermal Power Plant, Jaygad Dist. , Ratnagiri.
- Sahyadri Starch Ltd, M.I.D.C Miraj.
- 33 KV Sub-Station, Miraj.
- H. V. Testing lab of M.S.E.B, Vishrambag, Sangli.

Distribution Transformer Sub Station, W.C.E, Sangli





C) Department of Industrial Electronics Engineering



Sr. No.	Name of Lab.	Major Equip.	Cost in Rs. Lakhs
1	Basic Electronics	12	4
2	Applied Electronics	11	6
3	Communication	16	19
4	Instrumentation And Control	21	9

5	Industrial Electronics	16	6
6	EDA	8	20
7	Microprocessor & Microcontroller Lab	6	10
8	Central Computing Facility	3	10
9	Industrial Drives	13	6
10	Industrial Automation Lab	6	14
11	Embedded System Laboratory	6	12
<b>Availability of equipment for conduct of expts/ jobs as per MSBTE Norms</b>			100 %

### Salient Features

- 1) One student secured direct admission to SE at Govt. College of Engg. Pune.
- 2) Four students secured direct admission to SE at Walchand College of Engg.
- 3) Two students secured direct admission to SE at Walchand College of Engg.
- 4) Twelve students from TY-DIE class scored above 90% in 2018-19.
- 5) Eight students got above 90 % in 2018-19.
- 6) Highest percentage for Sem-6 is 95.77% in IE6G.
- 7) PBP worked as Expert for Syllabus of 6th SEM of I scheme .
- 8) VVS worked as expert reviewer of Lab manual for Industrial Drive.
- 9) PBP, NSN, SUC worked for model answers of MSBTE W-2018 exam.
- 10) Classrooms and laboratories are refurbished recently.
- 11) All faculty members are actively involved in all MSBTE/DTE activities.
- 12) 5 staff members worked as question paper setter/ moderator work.
- 13) Deepali Butale madam has published the paper “Wavelet based Biomedical Image Denoising & Compression using DWT Method” in IJRAR.
- 14) Ashwini Patil madam has published “Segmentation of IRIS using Daugman’s Algorithm” at IJLTET.
- 15) Shreyasi Patil madam has published the paper “IOT based System Design for Smart City using RASPBERRY PI” in IJSART.

### D) Department of Mechanical Engineering

Sr. No.	Name of Laboratory	No of Major Equipment's	Total cost of Equipment's and Furniture in the laboratory
1	Power Engineering	10	1169065
2	Thermal Engineering	14	1928619
3	Industrial Fluid Power	9	214360
4	Hydraulic Machines	7	163014

5	Theory Of Machines	9	97700
6	Measurement And Control	10	107276
7	Metrology And Quality Control	15	2374896
8	CAD/CAM	5	905278
9	Refrigeration And Air Conditioning	12	877950
10	Foundry Shop	7	426261
11	Tin Smithy	9	116225
12	Machine Shop And Turning Shop	10	995174
13	Production, Tooling And CNC Machine Shop	18	6914910
14	Black Smithy	7	24351
15	Carpentry	10	32731
16	Fitting And Plumbing	6	38767
17	Welding Shop	11	181645
18	Automobile Engineering	10	388500
19	Metallurgy	13	1094805
20	Mechatronics	7	372320

#### Industrial visit to BOSCHO Engg. Pvt. Ltd.



The scheme Orientation Program for 3rd and 4th semesters held at Walchand College of Engineering, Sangli (Instt. Code 0009) on 22<sup>nd</sup> June 2018 between 10.00 am to 5.15 pm. Principals from 22 polytechnics and their HoDs (about 102) attended this I Scheme Orientation Program.





## Induction Program for Diploma Students



Name of Course	Course Code	Year of Commencement	Approved Intake
Civil Engineering	CE	1955	40
Electrical Engineering	EE	1955	60
Industrial Electronics	IE	1970	40
Mechanical Engineering	ME	1955	60
A.I.C.T.E. Approval No.	Western/1-3516241198/2018/EOA/Corrigendum-1 Dated 20 <sup>th</sup> June 2018		
Govt. of Maharashtra. Approval No.	Approval/2009/(314/09)/TE 5 Dated 30 <sup>th</sup> June 2009		
M.S.B.T.E. Affiliation No.	MSBTE/D-53/AC/2018/800 Dated 29 <sup>th</sup> June 2018		

Within Sangli, Miraj & Kupwad Municipal Corporation area  
at Vishrambag on 16.845735°N latitude, 74.601268 °E longitude  
College campus is located on about 90.5 acres of land on the southern side of Sangli - Miraj road.

INFRASTRUCTURE DATA	As per AICTE Norms		Actual Available	
Land Area	1.5 Acres		90.5 Acres	
Works	No.s	Area (m <sup>2</sup> )	No.s	Area (m <sup>2</sup> )
Instructional Area	44	3339	64	11790
Administrative Area	58	650	60	1528
Amenities Area	12	2450	15	5370

Built-up Area is much more than AICTE norms



Walchand College of Engineering, Vishrambag, Sangli through Google Map