

# ANNUAL REPORT

2018-2019



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# **SDM COLLEGE OF ENGINEERING AND TECHNOLOGY, DHARWAD**

## **ANNUAL REPORT 2018-2019**

SDMCET is an Autonomous Institution under VTU Belagavi, established in the year 1979 with just 03 branches and an intake of 90 students. Today, it has 07 UG programs, 06 M.Tech. programs and a MBA program with 3200 students on roll. It has total faculty strength of 175 and 261 supporting staff. All the 11 departments have been recognized as Research Centers for offering Ph.D. programs under VTU.

### **RECOGNITION:**

The University Grants Commission, New Delhi granted Extension of Autonomous Status till 2019-20. Visvesvaraya Technological University, Belagavi, granted Institutional Autonomy since 2016. Accordingly PG programs are also run under autonomy mode.

### **NBA ACCREDITATION:**

- Three UG programs viz. Mechanical Engineering, Electrical & Electronics Engineering and Chemical Engineering programs have been accredited for 3 years (June 2018 to June 2021).
- Four UG programs viz. Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering and Information Science & Engineering have cleared the pre-qualifier stage under Tier-I and Self Assessment Reports (SAR) have been submitted. NBA team is likely to visit our campus in August / September 2019.
- Academic audit was conducted by external experts in the Civil / ECE / CSE / ISE Depts.

### **COLLEGE RANKING**

As per leading magazines:

- 1) **'India Today'** magazine (May 2019 issue) -
  - 21<sup>st</sup> place among Top Private Engineering Colleges.
- 2) **'Careers 360'** magazine (April 2019 issue) -
  - Awarded **'AAA+'** among state wise private / affiliated colleges.
- 3) **'Education World'** magazine (May 2019 issue) -
  - 12<sup>th</sup> Place in Top Private Engineering Institutes in Karnataka.
  - 53<sup>rd</sup> among India's Top 100 Private Engineering Colleges.
- 4) **'The Week'** magazine [ June,2018 issue] -
  - 27<sup>th</sup> Place among Top Private Engineering Colleges- South Zone.

**STUDENTS ADMISSIONS:**

UG Programs (B.E.)	Nos.	Lateral Entry	PG Programs (M.Tech. / MBA)	Nos.
Civil Engg	94	19	Engineering Analysis & Design	07
Mechanical Engg.	124	26	Computer Aided Design of Structures	18
Electrical & Electronics Engg.	63	16	Digital Electronics	10
Electronics & Communication Engg.	126	28	Computer Science & Engg.	13
Computer Science & Engg.	126	24	Power System Engg.	18
Information Science & Engg.	63	11	Information Technology	01
Chemical Engg	31	00	MBA	60
<b>Total UG Programs (BE)</b>	<b>627</b>	<b>124</b>	<b>Total UG Programs (M.Tech./MBA)</b>	<b>127</b>

**ACADEMICS:**

The institution is using the academic autonomy in a befitting way while designing the contextually relevant curricula. The institution believes in strong teaching learning process suitably supported by the research activities. The following table summarizes the progress in academic related activities.

Journal Papers	49
Conference papers	53
Faculty attended conference /workshop /FDP/NPTEL etc.	183
Guest / expert lectures arranged	15
Faculties delivered invited talks	40
Book / Chapter published	01

**RESULTS:**

Results of Dec 2018 examinations:

Sl. No.	Program	Semester	Average Pass %
1	UG	I	66.51
2	UG	III	69.28
3	UG	V	81.52
4	UG	VII	92.97
5	PG	I	82.38
6	PG	III	93.94

**PLACEMENTS:****UG Programs**

Placement Year	No of Companies	No of Offers	Avg. Package (Rs. in lakhs)	Highest package (Rs. in lakhs)
2018-19	48	390	4.32	10.24

Department Wise Offers								
Dept.	CHEMICAL	CIVIL	ME	EEE	ISE	CSE	ECE	TOTAL
2018-19	8	7	21	33	64	141	116	390

**MBA**

- Out of 37 eligible students, 28 students have been placed till date in 15 companies through pooled campus recruitment.

**COMMUNITY SERVICE:**

- Total 33 programs have been conducted under “community services” for the adopted villages - Yarikoppa, Nayakana Hulikatti, Kanavi Honnapura, Harobelavadi, Kabbenur.
- Funds Rs.50000 (Rupees fifty thousand only) was received under Unnat Bharat Abhiyan.

**OTHER DETAILS :**

- Number of Training Programs arranged for students: 48
- Number of Internships arranged : 54
- Number of Students Publications: 40

**DETAILS OF MOUS & ACTIVITIES CARRIED OUT:**

Sl No	Organization	Objectives	Activities completed in 2018
1	Mindcraft	Project and Joint Research	<ul style="list-style-type: none"> <li>• 3 students' projects are taken-up.</li> </ul>
2.	HESCOM	Training and R&D	<ul style="list-style-type: none"> <li>• 14 PG &amp; UG students have undergone internship training for 2 weeks</li> <li>• 2 batches of students carrying out UG project</li> <li>• Organized national conference in 'Power System Engineering'.</li> </ul>
3	Bosch Rexroth	Training	<ul style="list-style-type: none"> <li>• Trained 296 UG students (ME, EEE &amp; ECE)</li> </ul>
4	SPICER India	Training	<ul style="list-style-type: none"> <li>• 9 UG ME students have undergone internship with financial support.</li> <li>• Coaching given to 100 SPICER India employees to take-up IIIE exams.</li> </ul>

5	IIT Mumbai	Distant learning FDP	<ul style="list-style-type: none"> <li>Five days 'College to corporate' program involving final year students as a part of remote training facility.</li> </ul>
6	TATA Technologies	Distance ready Engineer	<ul style="list-style-type: none"> <li>83 students of Mechanical Engg. were trained &amp; certificates were distributed.</li> </ul>
7	Karnataka Biotechnology and Information Technology Services, Bangalore	Incubation network in Engg.	<ul style="list-style-type: none"> <li>Idea competition – 01</li> <li>59 projects consisting of 166 UG students participated in idea presentation conducted by KBIT.</li> <li>Innovative ideas applied for funding to KBIT– 15</li> <li>Workshop hosted – 01</li> <li>Workshop attended – 03</li> <li>Nihal Revanakar, ME won Rs.15,00,000 for best student startup in Karnatak Teck Sammit at Bangalore</li> </ul>
8	ICT on 28.12.2018 (CSE)	Faculty training	<ul style="list-style-type: none"> <li>18 students uploaded technical videos on youth talk.</li> </ul>
9	M/s Nichrome Chemicals Pvt. Ltd., Dharwad on 7.8.2018 (Chemical Engg.Dept.)	Students training & guest lectures	<ul style="list-style-type: none"> <li>23 students have undergone 2 days training program.</li> <li>A guest lecture was arranged.</li> </ul>
10	University of Strathclyde, Scotland, UK	1) UG Fellowship/ Summer School programs for the students 2) PG admissions at University of Strathclyde 3) Faculty exchange programs	<ul style="list-style-type: none"> <li>MoU signed on 19.01.2019.</li> <li>3 students are visiting University of Strathclyde, Scotland, UK in June/July 2019.</li> </ul>

### SPONSORED PROJECTS SANCTIONED

Sl. No.	Name of the PI	Title of the Project	Funding Agency	Total Grant (In Lakhs)	Department
1	Dr. B. H. Vadavadagi	Hot deformation of austenitic stainless steel ASS-304 for hygienic applications in dairy industry	VGST	40	Mechanical Engg.

2	Dr. V. S. Yaliwal	FDP on Technical Education in India and skill development	VGST	2.27	Mechanical Engg.
3	Dr. M.N. Kalasad	Development of semiconductor alloy nano crystal hetero structures and devices	VGST	20	Physics Dept.
4	Dr. Hemalata V. Bhujle	Design and Development of optimized spectral techniques in hyper spectra mapping of crop and soil for precision agriculture	VGST	20	ECE Dept.

### DETAILS OF FACULTY ACHIEVEMENTS:

- Following faculty members were awarded Ph.D.:
  - Sri. Basavaraj S. Shalavadi, Dept. of E & E
  - Smt. Vidyagouri B. Hemadri, Dept. of CSE
  - Prof. Rashmi S. H., completed M.Sc. (Engg.) by Research + Ph.D. Integrated Dual degree on 29<sup>th</sup> September 2018 at Chemical Engineering of M.S. Ramaiah Institute of Technology, Bangalore.
  - Smt. Suprita M. Lagali, MBA Dept.
  - Ms. Anita Dixit, Dept. of ISE
  - Dr. Prakash H. S., Director, MBA received Ph.D. Convocation Certification on 12<sup>th</sup> April 2019 from Mangalore University.
- Smt. Jayashree Nidgundi, submitted Ph.D. thesis titled 'Study of performance acceptance of error control coding using VLSI techniques' under the guidance of Dr. Siddaram Patil, Professor, PDA College of Engineering, Kalburgi.
- Sri Raghavendra P. V. submitted Ph.D. thesis to KUD.
- Sri. Mahendra Dixit submitted the Ph.D. thesis.
- Ms. Deepa Bendigeri, Faculty, ISE completed comprehensive Viva-Voce for Ph.D. on 23.08.2018.
- Dr. R. L. Charasali has been selected as Chairman of The Institution of Engineers (India) Dharwad Local centre. on 28-10-2018.
- Dr. Vandana Bhat, Faculty, ISE received Best Teacher Award from Institute for exploring advances in Engineering for 2018 in recognition of her valuable contribution to the academic community of the students.
- Dr. Sunilkumar Honnunar special award for continuous innovative development of industrial Engineering in its operations and significant encouragement to the industries in India, on 29<sup>th</sup> September 2018.
- Dr. Jayaraj Kudariyavar got a best paper award in an International conference held at Hyderabad.
- Prof. G. M. Shivanagowda, attended Pre-submission Colloquium, 03.01.2019.

- Dr. S. G. Joshi, Dr. Prashant C, Dr. S. S. Kerur, Dr. Sunil Kumar Honnungar, Dr. K. N. Patil, Prof. S. G. Nayak, Prof. Rashmi Hiremath have been selected as Executive committee members of The Institution of Engineers (India) Dharwad Local centre.

## LIBRARY COLLECTIONS:

General Books	59183
Print Journals	121
CD/DVD's	2635
Bound Volumes	2028

### a. E-Resources

#### i. Online Journals & books (e-Journals & E-Books)

- IEEE - 273 Journals, 6514 Conf. Proc. & 3043 Standards,
- Springer - (680 e-Journals)
- Taylor & Francis (535 e-Journals)
- ASCE e Journals Package (34 e-Journals) (Back files Access- since 1983)
- Pro Quest Engineering - (3900 e- Journal) (Back issues from 2000)
- ASME e-journals package (32 e-Journals) (Back files Access- since 1983)
- Pro-quest Management - (2900 e-Journals) (Back issues from 2000)
- Net Analytiks' Sententia - is a formal writing assistant for students and professionals.
- Knimbus: Digital Library and Remote Access Solution presents a single search window to all subscribed resources.

#### E-Books

- Springer eBooks - (Engineering and Allied Subjects e-books)
- CRC Press Taylor & Francis eBooks - (Engineering and Allied Subjects Ebooks)
- Pearson eBooks - (153 e-Books)
- DELNET eBooks - (14000 e-books in engineering and Allied Subjects)
- Kopykitab VTU Virtual-Library -(1200 e-books in engineering and Allied Subjects)

#### ii. SDMCET Digital Library:

This facility helps to access all digital content. It also supports e-learning to the students.

Digital contents available are:

- TMH eBooks 187
- Previous Year Question Papers
- NPTEL Lecture Videos

These Resources are IP based and accessible within SDMCET campus & Remote Access is also made available to most of the E-resources.

### b. Institutional Membership

- Developing Library Network (DELNET), New Delhi
- Institute of Engineers of India (IEI)
- National Digital Library of India (NDL)

## **ACTIVITIES OF INCUBATION CENTRE**

1. Following two students projects participated in the workshop "Business Model Canvas for Startups" at SIT Tumkur, on 6<sup>th</sup> and 7<sup>th</sup> July 2018:
  - i) Density based traffic system
  - ii) Design and development of Dryer for agriculture products
2. Prof. V.K. Parvati and Sri. Shrinath Betageri attended workshop on Startup Awareness at K-tech Innovation Hub at NASSCOM, Bangalore on 11<sup>th</sup> & 12<sup>th</sup> October -2018 and visited NASSCOM, BBC, IBAB, IISc. and GKVK Incubation centers..
3. Conducted SPARKATHON 2018, more than 100 students from SDMCET, PDA Engg. College & Gogate Institute are participated on 13<sup>th</sup> and 14<sup>th</sup> November 2018. Mr.Jagannathan Sheshadri and Mr. Satish Kumar interacted the students.
4. Prof. V.K. Parvati, Dr. S. R. Biradar & Sri. Shrinath Betageri attended Startup Innovation zone Tech Summit at Bengaluru 2018, from November 29<sup>th</sup> to 1<sup>st</sup> December 2018 & Nihal Revanakar, won Rs.15,00,000/- for best student startup.

## **BOSCH REXROTH CENTRE:**

- 296 UG students of Mechanical Engg., Electrical & Electronics Engg. & Electronics and Communication Engg. Depts. have been trained.

## **DETAILS OF STUDENT ACHIEVEMENTS:**

- 1) Ms. Jorapur Sharayu Srinivas, student of Chemical Engineering got selected for MS (Engineering) at IIT, Madras, through GATE.
- 2) Varsha Kowdi and Team Participated in Tech Fest organized by IIT Bombay on 14<sup>th</sup> & 16<sup>th</sup> December 2018
- 3) Kumar Sanjay Sunkad, IV Sem Mechanical Engg., published a book "Come Fly with Me" published by Notion press.com
- 4) Ms. Ashwini Bharadwaj got selected as Sub-Lieutenant, Indian Naval Academy.
- 5) Roohina Banu, Srinidhi Joshi and Pavithra Raikar, II semester, MBA students awarded the Certificate of Achievement for the successful completion of the Fundamentals of Digital Marketing Certification Examination on 14.04.2019.
- 6) Apporaj K. and Keerthi P. students of ISE participated in BGIT, Belagavi in paper presentation event on 25<sup>th</sup> April 2019 and awarded First Prize.
- 7) Parth A. Punekar, student from ISE department participated in the 4<sup>th</sup> National level project competition organized by IEEE Student Branch and IEEE WIE Affinity Group, GSSSIETW in association with IEEE, Bangalore Section on 29.4.2019



## **STUDENT FUNDED PROJECTS SANCTIONED:**

### **KSCST Project Funds**

- 1) A Project titled 'Conducting Polymer Doped with Metal Oxide for Sensing Applications' in respect of students Ms. Anusha, Sharayu and Anupama, Department of Chemical Engineering secured KSCST Fund of Rs.7,000/-.
- 2) A Project titled 'Studies on Denitrification using spouted Bed Draft Tube Reactor and Scale Up' in respect of students Ms. Rakshita, Ambrin and Soumya, Department of Chemical Engineering secured KSCST Fund of Rs.5,000/-.
- 3) Student Project titled 'Development of Mobile Solar Water for Rural Application' from the department of Mechanical Engineering has been selected for Project Exhibition held at VTU Belagavi on 28.6.2018.
- 4) Project titled 'Water Supply and Sanitation Application to save Water : A Review' by VIII semester students, Mr. Kiran Hubli, Mr. Praveen Madiwalar and Mulla S.A, Department of Civil Engineering selected for Oral presentation at 5<sup>th</sup> National Conference on Water, Environment and Society held between 4<sup>th</sup> and 6<sup>th</sup> Jun 2018.

### **VTU Financial Support:**

- SDMCET, Dharwad received a sum of Rs. 70,000/- from VTU on account of financial support for 14 Under Graduate Projects (two projects in each Engineering Department).

## **OTHERS:**

- 'INSIGNIA-18' a national level technical and cultural fest was conducted on 25<sup>th</sup> & 26<sup>th</sup> March, 2019.

## **DETAILS OF SPORTS ACTIVITIES:**

1. Mr. Guruprasad M. of SDMCET participated in International Karate Championship-2018 and secured 2 silver medals, which was held at Shimoga on 18<sup>th</sup> and 19<sup>th</sup> August 2018.
2. Ms. Pallavi Angadi, III semester, MBA got selected for VTU Hockey South Zone University Tournament held at Algappa University, Karaidudi, TN from 28.11.18 to 3.12.18 and selected as **University Blue**.
3. **Following students are selected to represent VTU in Inter- University Tournaments:**
  - i. Mr. Mohan S. - VTU Cricket team
  - ii. Ms. Rani M. C. - VTU Football team
  - iii. Ms. Tejashwini Huddar, Muskan Khazi & Pallavi Angadi - VTU Hockey team
  - iv. Mr. Pawankumar Rawal & Veeresh Tegur - VTU Hockey team
  - v. Ms. Anusha P T & Madhu L - VTU Archery team
  - vi. Mr. Balanagouda Patil - VTU Archery team
  - vii. Ms. Rutwika Huddar - VTU Women's Cricket team

- viii. Ms Manisha C C. - VTU Cricket team
- ix. Mr. Vishwanath S G - VTU Cricket team
- x. Mr. Preetamkumar Hiroli - VTU Judo team

**4. VTU Intercollegiate tournaments**

- i. Badminton Men team - Secured 2<sup>nd</sup> place.
- ii. Badminton Women team - Secured 3<sup>rd</sup> place.
- iii. Table tennis Men team - Secured 3<sup>rd</sup> place.
- iv. Table tennis Women team - Secured 3<sup>rd</sup> place.
- v. Basketball Men team - Secured 2<sup>nd</sup> place.
- vi. Bharatesh K. - Secured 1<sup>st</sup> place ( Gold Medal)
- vii. Throwball Women's team - Secured 3<sup>rd</sup> place.

- 5. Preetam Hiroli secured 1<sup>st</sup> place (Gold Medal) in VTU Intercollegiate Judo Tournament which was held at SCE, Bangalore, on 15<sup>th</sup> to 17<sup>th</sup> October 2018.
- 6. The other Sports activities conducted for Students of SDMCET are as listed below.
  - i. VTU Handball Tournament
  - ii. VTU Hockey Tournament
  - iii. VTU Netball Coaching Camp for University Team
- 7. Swimming – A notice has been already displayed to become members of Swimming Club at concessional rates, so that both Students and Staff can avail the facility of Swimming pool located at SDM Dental College. Around 200 Students are already availing the facility.

**PRINCIPAL**