

**Annual Report of Computer Science and Engineering  
Department for the Academic Year 2022-23**



It gives me great pleasure to present an overall report of Computer Science and Engineering Department for the academic year 2022-23.

**1) ACADEMIC PERFORMANCE:**

The department achieved excellent results. SY, TY and Final year B.Tech results of academic year 2021-22 are as follows:

**a) Class wise Results:**

SY	: 100 %
TY	: 100 %
Final Year	: 85 %

**b) Student Achievements:**

1) Our final year B. Tech CSE students Mayur Mane, Shruti Potraj, Mahesh Kamble & Nikhil Anvekar (M.Tech) secured first prize at National Level Toycathon-2021 arranged by AICTE. The team mentor was Prof. Piyush Kankal.

2) The team from TE CSE participated in final competition of IBM Hack Challenge where they presented their project “Fashion Redefined with Virtual Grooming Assistant”. The team members were Ramanand Mohare, Pranoti Pawar, Rohit Shriram, Shruti Potraj and they are guided by Prof. S. A. Yemul.

3) The project “AI-Assisted Farming for Crop Recommendation & Farm Yield Prediction” received special IBM’s Jury’s Choice Award in IBM hack challenge. The team members were Prof. Shridhar Yemul (mentor), Onkar Charkupalli, Abhishek Dandi and Rohan Konkatti.

4) Our final year B.Tech CSE students Mr. Ujwal Mardkar got Microsoft Swag Kit from Microsoft office Redmond, Washington Area, United States of America.

**c) Faculty Achievements**

1) Prof. M. B. Patil has completed Ph.D. in Computer Science & Engineering from Vishveshwarya Technical University, Belagavi, Karnataka. The research topic was Design of Efficient Network Controlled Vertical Handoff Mechanism in Heterogeneous Wireless Network”.

2) Dr. M B Patil Published a Patent for innovation entitled “Mixed Mode Wireless Network Design Using Fuzzy-Network Control Handover Mechanism” at the Government of India with patent No- 202141051619 A.

**d) Faculty Publications**

Our Institute motivates Faculty members to publish their research in National and International Journals. The details of Publications are as follows.

1) Dr. V. V. Bag & Dr. M. B. Patil Published a Paper entitled “Real-Time Detection of Face Mask and Social Distancing” in Scopus indexed Springer Proceedings with DOI: 10.1007/978-981-19-2719-5\_33.

2) Prof. Mrs. S. C. Papade Published Paper Entitled “Analysis of Solar Dryer Using HTML” in Journal of Emerging Technologies and Innovative Research , Volume 9, Issue 3, Mar – 2022

3) Dr. M. B. Patil Published a Paper entitled “A Novel Hybrid Technique With Optimization For Enabling QoS For Network Controlled Vertical Handoff Mechanism In Heterogeneous Network” in Scopus indexed IET-IEEE Digital explorer DOI: 10.1049/icp.2022.0628.

4) Dr. M. B. Patil Published Paper entitled “Fuzzy Based Network Controlled Vertical Handover Mechanism for Heterogeneous Wireless Network” in Scopus indexed & Web of Science (WoS) International Journal of Elsevier Materials Today's DOI :<https://doi.org/10.1016/j.matpr.2021.06.364>

5) Dr. M. B. Patil Published a Book entitled “Operating Systems” in scientific international publishing House with ISBN:978-93-92992-82-7.

6) Dr. M. B. Patil worked as Technical Committee Member for the Second International Conference on Mobile Computing, Wireless Communications, and Networks held on September 24-26, 2021 in Dalian, China.

7) Dr. M. B. Patil was Active Reviewer for International Conference on Electronics, Communications and Networks 18 Nov 2021 – 21 Nov 2021 held at Beijing University, China

8) Dr. M. B. Patil Recognized as an active reviewer for the Scopus Indexed Journal of Electrical Engineering and Informatics (IJEI).

9) Dr. M. B. Patil is Recognized as reviewer of International Journal of Wireless Communication and Mobile Computing ISSN: 2230-1007 SCI publication group USA.

## 2) STUDENTS' PLACEMENT

Prof. Dudhanikar S.D is working as T & P Coordinator for the Computer Science & Engineering Department. One Hundred and fifty seven (157) offers are given to the students of Academic year 2020-21 from CSE by various companies till date.

Sr. No.	Name of Company	Number of Students selected
1	Teachers Insurance and Annuity Association (TIAA)	20
2	Persistent System Limited	9
3	TCS	33
4	Infosys	9
5	Webtech Developers Pvt Ltd	1
6	Sankey Solutions, Mumbai	1
7	MyBlind Co. Market Solution Pvt.	1
8	Eywa Solutions, solapur	1
9	Qspiders, Pune	9
10	Bitwise, Pune	2
11	RK Infosystems, Hyderabad	4
12	CRMNext Mumbai	1
13	CRMNext Mumbai	1
14	Wipro Limited	12
15	Atos Syntel	5
16	Modak Analytics LLP	6
17	BYJU'S	1
18	Accenture	7
19	FIS	3
20	Capgemini	2
21	Cyber Success	3
22	IDBI Intech	1
23	UGAm Solution	3
24	T-System	1
25	Cognizant	2
26	E-zest	1
27	Evosys Solutions	1
28	Hexaware Technologies Limited	1

29	Planet Spark	1
30	Simpli Learn, Bangalore	2
31	Dassault Systems Global Services	1
32	LTI	1
33	Driven-4	1
34	OpsFuse	1
35	Zensar	8
<b>Total</b>		<b>157</b>

In the current A.Y.-2021-22, 132 offers are given to our CSE students from various multinational companies till date. The details are as follows:

Sr. No.	Name of Company	Number of Students selected
1	TIAA	15
2	Infosys/InfyTQ	2
3	Persistent Systems LTD.	9
4	TCS	15
5	Evosys	5
6	Wipro	30
7	Tech Mahindra	3
8	Hexaware Technologies	4
9	Atos Syntel	2
10	Virtusa	8
11	Zensar	3
12	Pentagon Space	6
13	Vyom Lab	6
14	EYWA Solutions,	1
15	Qspider	4
16	Capgemini	8
17	Crave Infotech	1
18	Collabera	1
19	Infosys	1
20	Rockwell Mestech Unit	4
21	ITC Infotech	1
22	Whizible	3
<b>Total</b>		<b>132</b>

## 3) CONTRIBUTION OF FACULTY MEMBERS IN VARIOUS DEPT. & INSTITUTE ACTIVITIES:

Sr. No.	Portfolio	Faculty Name	
1.	HOD & Dean (Admin)	Dr. V. V. Bag	
2.	Class Coordinator	SY-A	Prof. P. D. Jawalkar
		SY-B	Prof. M. B. Patil
		TY-A	Prof. S. S. Damawale
		TY-B	Prof. M. S. Otari

		B.Tech	Prof. S. A. Shinde
3.	Prof. Shinde S. A.	1. Project Lab Incharge 2. Class Coordinator 3. AMC Coordinator 4. GATE Coordinator & Career Counseling Coordinator	
4.	Prof. Otari M. S.	1. Class Coordinator 2. NBA Coordinator & NAAC Coordinator 3. DAB Incharge 4. NIRF Department Coordinator 5. Proctor Coordinator	
5.	Prof. Patil M. B.	1. Class Coordinator 2. PG Coordinator 3. Departmental R & D Coordinator 4. PG Lab Incharge	
6.	Prof. Shaikh Z. M.	1. Project Coordinator 2. Web Programming Lab Incharge 3. IT Head 4. Hackathon / Project / Programming Competition Coordinator	
7.	Prof. S. C. Papade	1. Class Coordinator 2. CPL-I Lab Incharge 3. Virtual Lab Coordinator & Diploma Connect Coordinator 4. Time table Coordinator 5. Remedial Exam Coordinator	
8.	Prof. M. B. Rangdal	1. N/W Lab Incharge 2. Internship & Skill Development Coordinator 3. Dept Cultural Coordinator 4. Zensar Coordinator 5. Test & POE Coordinator	
9.	Prof. P. D. Jawalkar	1. Class Coordinator 2. CPL-II Lab Incharge 3. CSESA Coordinator	
10.	Prof. S. D. Dudhanikar	1. T & P Coordinator 2. IOT & CCF Lab Incharge	
11.	Prof. Adhatrao A.S.	1. Database Lab Incharge	

- Global Talent Track, Pune trained 30 Students of TE CSE on Python programming and Soft skill.
- Ms. Achal Patel, Eywa Solutions, Solapur mentored final year B. Tech Projects.
- Mr. Ujwal Maradkar- Google CloudReay Program Facilitator mentored entire college students who are interested in Google cloud.
- Prof. Z. M. Shaikh from CSE Dept. conducted corporate training for Zensar Employability skill developments to engineering colleges in Pune.

#### 4.1 Department Advisory Board

To improve the quality of teaching learning, projects, internship and placement, DAB i.e. Department Advisory Board is established for continuous guidance and improvement in various activities. The board members are senior academicians and experts and leaders in software industries. The DAB members are as follows:

Sr. No.	Name of DAB Member	Designation & Organization
1.	Dr. P. J. Kulkarni	Professor, WCE, Sangali
2.	Dr. R. B. Kulkarni	Associate Professor, GCOE, Karad
3.	Mr. Pratap Sanap	Associate Principal, Data Science L&T InfoTech, Pune
4.	Mrs. Achal Patel	CEO, Eywa Solutions
5.	Mr. Laxmikant Kathare	CIO, Improsys, Pune
6.	Mr. Shantanu Phatak	ESD Co-ordinator Zensar Technologies
7.	Mr. Amit Jambure	Staff Engineer, Nutonics Ltd
8.	Mr. Rohit Miragane	Sr. Software Developer, GS Lab

- Two DAB meetings were conducted online in the last academic year.

#### 4.2 Internship & Project in Industry by final year students

Our final year students completed full one semester internship in various industries. The details are as follows:

Sr. no.	Name of Company	Number of Students	Stipend
1	GAO Tek, Delware, USA	1	-
2	Rockwell Automation	1	15000

#### 4) INDUSTRY - INSTITUTE INTERACTION

Department is having strong Industry-Institute interaction cell. Under that following activities were organized.

- Under Zensar Employability Skill Development (ESD) Program 78 Students of TE CSE were trained on Advanced Java, Python programming & Database.

3	Hexaware Tech	2	15000
4	Evosys Pvt. Ltd. Ahmedabad	2	10000
5	Persistent System Private Limited	9	10000
6	Crave Infotech	1	8000
7	Product Dossier, Pune	1	8000
8	Vruuksh Ecosystem foundation, Nagpur	1	5000
9	Wipro	8	
10	Vedam Labs	4	
11	Virtusa	3	
12	Incentius	2	
13	Pisyst India Pvt. Ltd., Pune	1	
14	Qspider, Pune		
15	Aaryavarta Technologies	1	
16	Altoneus, Mumbai	1	
17	Bodhi Technologies, Pune	1	
18	Bodhi Technology, Solapur	1	
19	Corizo	1	
20	e-Earth Solutions Solapur	4	
21	Eywa Solutions	1	
22	Katare Infotech Solapur	3	
23	phonexzone technology	1	
24	Pro Market Solutions	1	
25	Vedam Labs Solapur	2	
26	VPACE TECHNOLOGIES	1	
	<b>Total</b>	<b>66</b>	

##### 5) SHORT TERM COURSES / CONFERENCES / WORKSHOPS ATTENDED BY FACULTY MEMBERS:

To bridge the gap between recent technologies used in industries and the syllabus which is framed in the curriculum there is need to upgrade knowledge of faculty members. Following faculty members have attended Workshop, Seminar and Short term training programs at various Institutes and organizations.

a) Prof. Mrs. S. C. Papade, attended one week ATAL Online FDP on "Designing Intelligent System" during 5th July 2021 to 9th July 2021.

b) Prof. Mrs. S. C. Papade, attended one week ATAL Online FDP on "Artificial intelligence" during 25th Oct 2021 to 29th Oct 2021. under Techsakhsham Program.

c) Prof. Mrs. S. C. Papade, attended one week STTP on "Artificial Intelligence Techniques in Solar Energy Applications(STTP AITSEA-21)" during 9th Aug 2021 to 14th Aug 2021. Organized by Suryodaya College of Engineering & Tech Nagpur.

d) Prof. Mrs. S. C. Papade attended one week Online FDP on "Inculcating universal Human Values in Technical Education" (English) during 13th sept 2021 to 17th Sept 2021 Organized by AICTE

e) Dr. M. B. Patil and Dr. V. V. Bag attended 4 days workshop on Artificial intelligence and Machine Learning conducted by RPG Foundation & Zensar Technologies, Pune in online mode.

f) Prof. Mrs. S. C. Papade, Completed 12 week NPTEL Online course on "Fundamentals of Artificial Intelligence".

g) All CSE Faculties attended Agile International Seminar on 16th and 17th May 2021 organized by Innovation Roots.

##### 6) CO-CURRICULAR COURSES, WORKSHOPS AND INDUSTRIAL TRAINING ARRANGED FOR STUDENTS:

a) A Hands on Workshop on Javascript Online was organized on 15<sup>th</sup> January 2022 for SE CSE A & B div by Prof. Mrs. S. C. Papade. The resource person was Miss. Shweta Swami, Software Engineer, Bajaj Finserv, Pune.

b) An online session of Prof. Andrew Thangaraj, IIT, Madras was organized on 7<sup>th</sup> July 2021 for B.Tech CSE Students. The topic was "Career in Data Science".

c) Prof. Shalini Chhabra, Marketing Google, Pune Conducted lecture on "My Journey To Google" for SE, TE & B. Tech CSE Students on 12/10/2021.

d) Miss. Achal Patel conducted a Guest Lecture on "Internship & Placement opportunities in Full Stack Development" for B. Tech CSE students on 17/11/2021.

e) Prof. I. I. Mujawar conducted motivational lecture on "Road Map to Academic Success" for SE & TE CSE Students on 18/3/2021.

f) Mr. Arnold Anthony, Mr. Sharath Nair & Mr. Rohit Singh from IDBI Intech Limited, Mumbai conducted workshop on 3<sup>rd</sup> & 4<sup>th</sup> June 2022 on "Java Technologies" for T.Y. CSE students.

##### 7) EXPERT LECTURES BY OUR FACULTY OUTSIDE THE INSTITUTE :

The institute motivates faculty members to deliver lectures outside the institution. Following lectures were delivered by our faculty members in various institutes in and around Solapur.

a) Prof. M. B. Patil delivered lecture on “Operating System” in Government Polytechnic, Solapur on 23/03/2022.

b) Prof. Z. M. Shaikh conducted one day workshop for Diploma faculty members organized by SSWP, Polytechnic & MSBTE, Maharashtra.

## 8) NPTEL COURSES PURSUED BY STUDENTS

I am happy to mention here that our students are actively participating in many NPTEL courses. The participation details for academic year 2021-22 are as follows:

Sr. No.	NPTEL Course	No. of Students Registered
1	Deep Learning	73 (B. Tech)
2	Introduction to Industry 4.0 and Industrial Internet of Things	73 (B. Tech)
<b>Total</b>		<b>146</b>

These students took credit transfer for above subject in their final year DBATU exam.

## 9) ACTIVITIES OF CSE STUDENT ASSOCIATION (CSESA)

a) **CSESA Committee:** Computer Science and Engineering Student Association (CSESA) is formed for co-curricular and extra-curricular development of students. Following students were nominated as office bearers of CSESA for the academic year 2021-22

Ms. Gunaja Ligade (TY- A) – President

Mr. Bhargav Andhe (TY- A) – Vice President

Ms. Sayali Kurra (TY- A) - Secretary

Ms. Snehal Shilwant (TY-A) - Joint- Secretary

Mr. Yash Thakare (TY- A- Treasurer

Mr. Onkar Charkupalli (TY-B) – Technical Coordinator

Ms. Ashwini Changale (TY -A) – Event Manager

b) **Activities conducted:**

Sr. No.	Activities Conducted	Date
1.	Teachers' Day	05/09/2021

2.	CSESA Inauguration	12/10/2021
3.	Vachan Prerna Diwas	18/10/2021
4.	Food Plating Photography Rangoli	2/11/2021
5.	The Sherlock Holmes Quiz	19/12/2021
6.	Think Out of the Box	17/02/2022
7.	Blind C	18/02/2022
8.	Turbofuture 2022	19/03/2022
9.	Freshers' Fest	09/04/2022
10.	Farewell to Final Year Students	02/07/2022

a) Institution of Engineers (IEI) Solapur Local chapter in association with Computer Society of India Solapur and NKOCET Solapur organized one day technical symposium for diploma students entitled as “TurboFuture 2022”. We have conducted “C Booster - C Programming Competition” & “Web Mania- Web Designing Competition”.

b) Vachan Prerana Divas- To honor the birth anniversary of our late President Dr. APJ Abdul Kalam Sir, “Vachan Prerana Divas” (Inspire to Read Day) is observed all over India on 15th October. This day is observed in NKOCET also that the students understand importance of reading and are encouraged to develop it as a hobby.

c) Food Plating Photography Rangoli competition was organized by CSE Dept. on 02/11/2022

d) Think out of the Box competition was organized by CSE Dept. on 17/02/2022

## 10) ONLINE ACTIVITIES

a) Our departments is continuously trying to improve the skills of the students which industry demands. Online internships were organized for the students of SY, TY and Final Year B.Tech with the help of industry trainers. Following internships were completed by CSE Dept. students.

Sr No	Class	Name of Internship	No. of Students Participants
1	S.Y B.Tech	C++ & Python	125
2	T.Y B.Tech	Java & SQL, PLSQL & Python	43
		GTT	30

b) Final year projects are key differentiator for the students when they appear for any placement drives. Also through projects students can show their innovations which can lead to startups. Hence final projects are taken very seriously in the department. Many of our final year projects are sponsored by industry and industry mentors are also guiding the students. Weekly review of the projects were taken by the respective guides.

c) Online preplacement workshop is conducted for Third year students which helped them in preparation for aptitude tests, technical tests, to improve programming skills, mock interviews etc.

I congratulate all the students of B. Tech final year for very good placement with multiple offers in multinational companies. This batch have created a benchmark for upcoming batches with a quantity and quality of placement.

I appeal to all the SY & TY students to make the efforts in right direction. I want to conclude with a beautiful quote;

**“THE BEST VIEW  
COMES AFTER THE  
HARDEST CLIMB”**

**(Dr. V.V. Bag)**

Head, Department of Computer Science  
and Engineering