



It gives me great pleasure to present an overall report of Computer Science and Engineering Department for the academic year 2020-21.

1) ACADEMIC PERFORMANCE:

The department achieved excellent results. SY, TY and final year B.Tech. results of academic year 2019-20 are as follows:

a) Class wise Results:

SY	: 100 %
TY	: 99 %
Final Year	: 100 %

b) Class wise rankers are as follows:

S.Y. B.Tech. CSE		
Rank	Name of Students	Percentage
1	Shirgani Rushikesh Chanmallapa	90
2	Harake Vinay Vijaykumar	89
3	Tukshetty Yashashree Gajanan	87
	Mergu Mayuri Netaji	
	Jadhav Ankita Shashikant	
	Chanshetti Rupa Shankar	

T.Y. B.Tech CSE		
Rank	Name of Students	Percentage
1	Molankal Aishwarya	95.00
	Boddhul Sonali Ganesh	
2	Bagwan Mahamadani Firoj	94.53
	Gaikwad Anand Sahebrao	
3	Dhotre Swapnali S	94.05
	Maindargi Yogesh R.	
	Moulavi Sobia A. A.	
	Tumma Rohan Ajay	

Final Year B.Tech CSE		
Rank	Name of Students	Percentage
1	Mhamane Nandini Prashant	88.61
2	Aaditya Pukale	86.3
3	Pulli Pravin Shrihari	83.76

c) Best Outgoing Student of The Department

I congratulate **Mr. Maindargi Yogesh Revansiddha** of B. Tech. CSE class for being “**Best Outgoing Student**” of our department for outgoing batch of 2020-21.

d) Faculty Achievements

On the occasion of Teachers’ day, Institute felicitates faculty members who have shown excellent performance throughout the Academic year. **Prof. M. B. Patil** was honored with “**Best Faculty Award**” from Department of Computer Science & Engineering for the Academic Year 2019-20.

e) 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 & Prof. M. B. Patil** "Smart Pilgrim Center: IOT Based Security System at Pilgrim Center" in scopus indexed multi disciplinary International journal Elementary education online EEO. 2021; 20(4): 2100-2105.

2) **Prof. M. B. Patil** Filed and received patent approval for “Feed forward Neural network combined with Extreme Machine Learning approach for large weather Data” at Government of Australia.

3) **Prof. M. B. Patil** Filed and Published a Patent for innovation entitled “Drought Predication from general circulation atmosphere model using Hybrid Data Mining Techniques” at Government of India.

4) **Prof. S. A. Shinde** CBCRC- Channel and Buffer Occupancy based congestion reduction in wireless cluster communication. published paper in an international journal of Shodh Nibandh Sangrah peer reviewed multi-disciplinary international journal in April 2021 ISSN 2231-4342

5) **Prof. M. B. Patil** "Location-Based Pomegranate Diseases Prediction Using GPS" in Springer Scopus indexed Innovations in Computer Science and Engineering Lecture Notes in Networks and Systems, 2021, pp. 375–383., doi:10.1007/978-981-33-4543-0_40.

6) **Prof. S. A. Hiremath** "SMART PARKING SYSTEM USING IOT" in IJSRD publication.

7) **Prof. S. A. Hiremath** "Dairy Management System" in IJSRD publication

2) STUDENTS PLACEMENTS

Prof. A. R. Chinchwade is working as T & P Coordinator for the department. One Hundred and Forty students from Academic year 2019-20 of CSE are placed in various companies till date. The details are as follows:

Sr. No.	Name of Company	Number of Students selected
1	Teachers Insurance and Annuity Association (TIAA)	10
2	Zensar Technologies	3
3	Persistent System Limited	4
4	TATA Consultancy Services	16
5	AXELOR India, Surat	5
6	Trifid Research, Indore	12
7	Sankey Solutions, Mumbai	1
8	Fiserv Technology	1
9	Wipro	4
10	Paramatrix Solutions, Mumbai	2
11	Xoriant	1
12	Hexaware	2
13	ATOS/SYNTTEL	6
14	CIALFOR, Pune	4
15	WebTech Developers, Pune	2
16	ADJ Infotech	4
17	GreyAtom	21
18	Cognizant	2
19	e-Zest	1
20	SilverLink Technology, Mumbai	11
21	Tech Mahindra	4
22	Eternus Solutions,Pune	1
23	Jaro Education	1
24	Qspiders, Pune	5
25	Capgemini, Pune	4
26	DXC Technology	8
27	Kemen Spring Pvt Ltd.	1
28	Deloitte pvt ltd pune	1
29	Nvidia Pvt Ltd	1
30	Accenture	1
31	HCL	1
Total		140

In current AY, 101 students from final year of CSE are placed in various companies till date. The details are as follows

Sr. No.	Name of Company	Number of Students selected
1	Teachers Insurance and Annuity Association (TIAA)	20

2	Persistent System Limited (PSL)	7
3	TCS Ninja offer through Codevita.	2
4	Evosys Solutions	1
5	Hexaware Technologies Limited	1
6	Infosys through InfyTQ	8
7	TCS	28
8	Webtech Developers Pvt Ltd	1
9	Sankey Solutions, Mumbai	1
10	MyBlind Co. Market Solution Pvt.	1
11	Eywa Solutions, solapur	2
12	Qspiders, Pune	9
13	Planet Spark	1
14	Simpli Learn, Bangalore	2
15	Bitwise, Pune	2
16	RK Infosystems, Hyderabad	4
17	CRMNext (Acidaes Solutions Pvt Ltd Mumbai)	2
18	Wipro Limited	1
19	Atos Syntel	2
20	Modak Analytics	6
Total		101

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. S. S. Jeurkar
		SY-B	Prof. M. S. Otari
		TY	Prof. G. N. Nadargi
		B.Tech Final-A	Prof. S. A. Yemul
		B.Tech Final -B	Prof. P. S. Kankal
3.	Prof. Shinde S. A.	1. AMC Coordinator 2. GATE Coordinator 3. Career Counselling Coordinator 4. Virtual Lab Coordinator 5. DSE Admission Committee 6. IOT Lab In Charge	
4.	Prof. Otari M. S.	Class Coordinator, NBA Coordinator	
5.	Prof. Yemul S. A.	1. Class Coordinator 2. Website Coordinator 3. NPTEL Coordinator 4. CPL-II Lab Incharge	
6.	Prof. Patil M. B.	1. PG Coordinator 2. Departmental R & D Coordinator 3. PG Admisison Coordinator 4. PG Lab Incharge	
7.	Prof. Shaikh Z. M.	1. Project Coordinator 2. Web Technology Lab Incharge 3.	

		Diploma Connect Coordinator 4. Proctor
8.	Prof. Damawale S. S.	1. Backward Connectivity 2. CPL-I Lab Incharge 3. FE Admission 4. Dept Magazine
9.	Prof. Binage V. B.	1. Database Lab Incharge. 2. NIRF Department Coordinator. 3. DSE Admission Committee 4. Mentor for Programming skill Enhancement
10.	Prof. Uttarkar R.D.	1. Internship Coordinator 2. Zensar Departmental Coordinator 3. Industry Visit Coordinator 4. OS Lab Incharge 5. Coding Course Coordinator -TECSE 6. CST on DB, Android, C, Java
11.	Prof. Jeurkar S.S.	1. Class Coordinator of both SE regular and DSE division (from admission to 15th May 2021) 2. N/W Lab incharge 3. DSE Admission Committee member
12.	Prof. Nadargi G.N.	1. CSESA Coordinator 2. Orchitech Coordinator 3. Dept. Library and Archive Coordinator 4. ERP Coordinator 5. Class Coordinator 6. CCF lab Incharge 7. Video Recording Coordinator 8. DSE Admission Committee member
13.	Prof. Kankal P.S.	Different Competitions by AICTE/Govt. Coordinator. 2. SD Lab Incharge. 3. DAB Incharge. 4. DSE Admission Committee member. 5. Instructor for C Language skills enhancement of SE students to crack TCS/Wipro/Infosys online tests for placements. 6. Class Coordinator
14.	Prof. Chinchawade A. R.	1. T&P Coordinator 2. Class Coordinator 3. Project lab Incharge
15.	Prof. Shinde R.U	1. Time table Co-ordinator
16.	Prof. Hiremath S. A.	1. Test Co-ordinator 2. P.O.E Co-ordinator 3. Remedial Exam co-ordinator

4) INDUSTRY - INTITUTE INTERACTION

Department is having strong industry institute interaction cell. Under that following activities were organized.

- Under Zensar Employability skill development Program 43 Students of TE CSE were trained on SQL, Java, Python and Soft skill.
- Global Talent Track, Pune trained 30 Students of TE CSE on Python programming and Soft skill.
- Mr. Chinmay Kulkarni- Persistent Systems Ltd Pune mentored final year B.Tech Projects.
- Similarly, Ms. Supriya Bhalerao, A4 Technology & Mr. Shubham Bahirappa, Saginga Digital Services, Pune mentored final year B.Tech Projects.

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 activities. The board members are senior academicians and experts and leaders in software industries. The members are as follows:

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

- Two DAB meetings were conducted online on 31/10/2020 & 29/05/2020.

4.2 Internship in industry and project by final year students

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

Sr. no.	Name of Company	Number of Students	Stipend
1	Bitwise	02	25000
2	Dassault Systems	01	15100
3	Persistent Systems	04	10000

4	Phoenixzone Technology	12	3500
5	MyBlindCo	01	2000
6	Virtual Galaxy Pvt Ltd	01	-
7	3B Auto Ltd	06	-
8	Kuck Bit	04	-
9	Eywa Solution	02	-
10	Giri Tech	03	-
11	Iping Data Lab	03	-
12	Earth Solutions	03	-
13	Bodhi Technology	28	-
14	ProError	08	-
15	Pysich Technology	12	-
16	Intech IT solutions	04	-
17	Bitwise Solutions	02	-
18	Asset Plus Consulting Noida	01	-
19	Driven4	01	-
20	Encure IT Systems Pvt. Ltd	01	-
21	Maxgen Technologies	03	-
22	Rudra Infotech	01	-
23	Sahir Projects	01	-
24	SGI solutions	01	-
25	Trilocode Technology	01	-
Total		106	

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. Our following faculty members have attended Workshop, Seminar and Short term training programs at various Institutes and organizations.

1. Prof. S. S. Damawale attended one week workshop on Digital Transformation & Pedagogies organised by Govt College of Engineering Karad & Sangali on 10 Aug – 14 Aug 2020.
2. Prof. S. S. Damawale, Completed IIT Bombay NPTEL Online Certification including 4-week Online Course Jan-Feb 2021, on “Design Learner- Centric MOOCs”.
3. Prof. M. B. Patil Completed Coursera Certification on Programming for Everybody & Python Data Structures.
4. Prof. M. B. Patil Completed IBM Coursera-Fundamentals of Scalable Data Science.
5. Prof. M. S. Otari, Prof. M. B. Patil, Prof. S. A. Yemul, Prof. A. R. Chinchwade, Prof. S. S. Jeurkar, Prof. Shinde S. A., Prof. G. N. Nadargi attended GuruCool Program by IBM India (6 Days Training on Emerging Technologies followed by a Project Build-a-Thon)

6. Prof. M. B. Patil attended TEQIP-III,DBATU LONERE Industrial IOTs, Industry 4.0 and Disruptive Technologies.
7. Prof. M. B. Patil & Prof. A.R. Chinchwade AICTE- ATAL Online FDP on IOT
8. Prof. M. B. Patil attended CMR Engineering College, Hyderabad-Artificial Intelligence FDP
9. Prof. M. B. Patil Attended FDP on Research technique and Challenges by Shivajirao S. Jondhle College of Engineering & Technology
10. Prof. M. B. Patil attended SPRINGER GURU NANK COLLEGE HYDERBAD-8th International Conference on Innovations in Computer Science and Engineering", ICICSE-2020-Virtual Conference, on 28th August 2020
11. Prof. M. B. Patil & Prof. A. R. Chinchwade attended AICTE-ATAL Online FDP on Data Sciences
12. Prof A. R. Chinchawade Completed GreyAtom One Month Course on "Python for Data Science".
13. Prof A. R. Chinchawade completed Course on Coursera 4-Week Online non-credit course "Front-End Web UI Frameworks and Tools: Bootstrap 4"
14. Prof. S. A. Yemul, Prof. G. N. Nadargi ,Prof. S. S. Jeurkar attended ATAL Online FDP on "Cyber Security" during 2020-12-7 to 2020-12-11.
15. Prof. S. A. Yemul, Prof. G. N. Nadargi, Prof. S. S. Jeurkar attended ATAL Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR)" during 2020-11-2 to 2020-11-6
16. Prof. S. A. Yemul, Prof. G. N. Nadargi, Prof. S.S. Jeurkar, Prof. S. A. Shinde, Prof. A. R. Chinchwade, Prof. V. B. Binage attended Dassult Session Connect Next Virtual Conference by La Fondation Dassault Systemes on 17/09/2021
17. Prof. Shinde S. A attended ATAL FDP on Blockchain from 2021-1-4 to 2021-1-8 at Noida Institute of Engineering & Technology, Greater Noida.
18. Prof. Shinde S. A attended ATAL FDP on IOT from 2020-10-12 to 2020-10-16 at Amity School of Engineering & Technology, Amity University, Noida.
19. Prof. Shinde S. A ATAL FDP on Robotics from 2020-12-8 to 2020-12-12 at KCG College of Technology

20. Prof. Shinde S. A ATAL FDP on Smart City from 2021-1-11 to 2021-1-15 at National Institute of Technology Silchar.
21. Prof. Shinde S. A Universal Human Values workshop of AICTE from 22 to 27 December, 2020
23. Prof. Binage V.B. attended Industrial Robotics and Future of Artificial Intelligence Workshop during 15th and 16th May 2021
24. Prof. Binage V.B attended webinar "How to Achieve Excellence in NIRF" on 14th May 2021 Organized by Sangameshwar College Solapur.
25. Prof. G. N. Nadargi attended ATAL Online FDP on "Gamification" during 2021-1-18 to 2021-1-22.
26. Prof. P. S. Kankal, Completed IIT Bombay NPTEL Online Certification including 4-week Online Course Jan-Feb 2021, on "Design Learner- Centric MOOCs".
27. All CSE Faculties attended Agile International Seminar on 16th and 17th May 2021

6) CO-CURRICULAR COURSES, WORKSHOPS AND INDUSTRIAL TRAINING:

a) A workshop on "Cloud Industry Applications", by Mr. Prabhakar Gadupudi, Sr. Team Lead, Xpansion Pvt. Ltd, Pune was organized on 21/11/2020 for BE CSE A & B div class. Prof. Damawale S. S. coordinated the activity.

b) Student Development Program on Full Stack Development Using Django Framework was conducted for students of DBATU affiliated colleges in Maharashtra under TEQIP funding. Dr. V. V. Bag was convener of program. Prof. M S. Otari and Prof. R. D. Uttarkar coordinated the program.

c) Guest Lecture on "Role of Technology in International Businesses Communication" was conducted for TE CSE students by Ms. Shubhangi Bhagwat, Manager, PSL Pune on 7/11/2020.

7) EXPERT LECTURES BY OUR FACULTY OUTSIDE THE INSTITUTE :

The institute motivates the 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. S. S. Damawale Conducted a virtual lab session for HSC students of Bharathi Vidyapeeth Jr. College, Solapur on 10/03/2021

b) Prof. S.A. Yemul, Prof. A.R. Chichawade, S.S. Jeurkar Conducted one day workshop on "Object Oriented Programming Using Python" for SY, TY CS/IT students of SVIT Solapur & Akkalkot Polytechnic on 12/05/2021

c) Prof. S. S. Damawale conducted a Guest Lecture on "Safety Management" for TY CSE & IT students of G. P. Hingoli on 15/05/2021

d) Prof. S. A. Shinde conducted a workshop on "Introduction to Virtual Labs on C Programming, Python Programming, Data Structures for T.Y. students of G. P. Osmanabad, on date 13/01/2021.

8) NPTEL COURSES

I am happy to mention here that our students are actively participating in many NPTEL courses. The participation details for academic year 2020-21 are as follows:

Sr. No.	NPTEL Course	No. of Students Registered
1	Deep Learning	160
2	Introduction to Industry 4.0 and Industrial Internet of Things	158
3	Compiler Design	48
4	Programming in Java	68
5	Programming in Python	58
Total		492

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 2020-21:

Mr. Shreyas Kulkarni (TY) – President

Mr. Onkar Madhekar (TY) – Vice President

Ms. Gunaja Ligade (SY) A - Secretary

Mr. Krishna Khandelwal (TY) - Treasurer

Mr. Yash Thakare (SY) A- Event Co-coordinator

Ms. Sayali Kurra (SY CSE) A -Joint Secretary

Mr. Bhargav Andhe (SY CSE) A – Event Admin

b) Activities conducted:

Sr. No.	Activities Conducted	Date
1.	Teacher's Day Celebration and CSESA Inauguration	05-07-2020
2.	Photography Competition	14/09/2020
3.	Art And Craft Game	14/09/2020

4.	Engineers Day Celebration	15/09/2020
5.	Idea Pitching	10-10-2020
6.	Vachan Prerana Divas	15/10/2020
7.	Mr. Ganesh Kadam, Kone Elevators as Configuration Owner has delivered an Expert Talk on “The Startup Fortnight”	17/10/2020
8.	Rangoli Competition	12-11-2020
9.	Food Plating	12-11-20
10.	Python Quiz	19/03/2021
11.	Expert guiding session by Prof. A. D. Joshi who is a Founder & President of Indian Model School, Solapur was organized on topic “My Goal My Way” to all CSE students.	25/03/2021

10) SOCIAL ACTIVITIES:

- 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, so that the students understand the importance of reading and are encouraged to develop it as a hobby.
- On 22nd December 2020, NKOCET had arranged a pledge taking ceremony “Not Zero-Net Zero”- pledge for carbon neutral campus.
- Buddhibal Prerana Divas - On the occasion of the 5th “International Chess Day” an online webinar session was organized on "Chess for Engineers", conducted by Prof. Rohit M. Pawar, our alumni student and International Fide rated player.
- Poster Presentation To achieve the objective of "Elimination of Single-Use Plastic, NSS unit organized the Poster Making competition on 12th April 2021.

11) ONLINE ACTIVITIES DURING LOCKDOWN

Despite pandemic and lockdown, we at Orchid continued our teaching learning process with new Orchid online education model. All the activities which we were conducting offline, were conducted online except sports. The features of the model are as follows:

- All theory lectures were engaged using the online platforms like MS-Teams, Zoom and Google meet.

b) The practical sessions were conducted online and Virtual Labs were used which are developed by IITs.

c) We have completed 100% syllabus and conducted various initiatives like online webinars, workshops, alumni meet & various students activities.

d) Our departments 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
3	Final Yr. B.Tech	Listed in above Point No-4	

e) Final year projects is key differentiator for the students when they appear for any placements 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. We have organized final online presentations of the projects in front of Principal, HOD & industry mentors to show case the work completed by students.

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

g) To be connected with parents “Online Parent Meets” were conducted and informed the parents about various activities and programs we are conducting day to day and the performance of their wards in these activities.

h) Even, our annual cultural program “Rainbow” was held online and students enthusiastically participated and enjoyed all the activities of cultural program.

i) We have published our annual magazine “Orchid Aura” online on our website.

We have ensured that pandemic and lockdown should not be hurdle for the students’ academic as well as overall development.

Regards.

(Dr. V.V. Bag)

Head, Department of Computer Science
and Engineering