

# Department Profile

**Name of the Department: Department of Computer Science**

**Year of Establishment: 1989**

## 1. From The Desk Of Head:

Established in 1989, the Department of Computer Science has a rich history of taking the lead in Teaching, Research & Development in frontier areas of Computer Science and allied domains. Department offers three postgraduate programmes namely MCA (Master of Computer Application) , MSc ( Computer Science), and PG Diploma in Data Science, and BCA (Bachelor of Computer application) under science faculty as undergraduate programme. This year (2024) department is starting BSc-MSc AI & ML five years integrated programme under PM-USHA scheme of Government of India. All programmes are designed as per NEP-2020 with multiple entry exit option. Here Main objective is to develop human resources with core competence in various thrust areas of Computer Science like generative AI, Artificial Intelligence, Cloud computing, Data science, Natural language processing and Machine Learning. Other modules include emerging programming, data analytics, software development, Computer networks, database design etc. Our programme focus on preparing students for innovation within major tech companies or entrepreneurship within start-up ventures. Guest lectures, case studies and presentations are organized from time to time to give an insight into the latest development and happenings in the industry. Its not only technical skills of the students but even soft skills of the students are developed with the focus on communication and personality development.

Department has ICT enabled classrooms and three Computer Labs with 200 high configuration computers. A specialized cyber security lab is also functioning to foster the cyber security research. A new Computer Science building is getting ready where BCA and BSc-MSc integrated programme will be hosted.

Experiential learning is imparted in the form of projects and internship. Students are motivated for self learning for the latest trends in Computer Science in the form of delivering the seminars. Workshops and expert lectures are organized to give wider exposure the students. Other than academics students are also encouraged to participate in sports activities and cultural events. We do have sports week as well as welcome, sendoff and traditional days celebrations.

Given the rapid rate of obsolescence of knowledge, especially in Computational Sciences, the department faculty strives their best to keep abreast with the technology. Department has all doctoral faculty to provide theoretical as well as practical knowledge to students. Almost all the faculties are PhD's in Computer Science and plays an important role to foster research activities of Department.

Department has a very strong alumni with a very good Alumni interaction, each weekend one of the alumni visits the department and guides students about the current technologies in the IT industry. Some of the alumnae are directors of the company; some are placed in reputed IT companies like Microsoft, Google, Intel etc. One of the alumni has started endowment lecture series, another has started a merit scholarship for MCA students who are from economically weaker section and there are many more. Alumni play an important role in placement activities of students.

Dr Kavita S. Oza,  
Head,  
Department of Computer Science,  
Shivaji University, Kolhapur

## 2. Brief History of the department along with present focus in academic & research



The Department of Computer Science was established in the year 1989. Academic programs offered by the department are: M.C.A, M.Sc, PGDDS, B. Sc.-M. Sc.-Integrated (AI & ML), B.C.A, M.Phil and Ph.D. The faculties have expertise in various fields of research like machine learning, data mining, mobile computing, soft computing, artificial neural network, Technology integration in pedagogy using LMS and cybersecurity. Department has signed MoUs with Google, C-DAC, Quick Heal

Foundation and have organized various workshops for the faculties to bridge the industry-academia gap. Currently the department is in forefront in conducting FDPs in Cyber Security and Data Science under the aegis of MHRD with grants in aid support of over Rs. 6 Crore.

Department of Computer Science adopts innovative teaching-learning methods that involve experiential learning with more focus on hands-on due to the inherent nature of the subject itself. This is further augmented by providing industrial exposure to the students by the way of “industry visits” and internship program with CDAC, Pune. Teaching-learning in the department is synergized with adoption of ICT more specifically using MOODLE and Google Classroom. Few courses in the department such as “web designing” are in great demand by the students from other departments under Choice Based Credit System.

The faculty uses open source tools such as Kahoot and MOODLE for evaluation of the students. The research conducted by the department faculty is applied in nature that addresses the prevalent issues of the society. Alumni of the department are well placed in MNCs and blue chip companies and they make it a point to give back to their alma mater by sharing their rich expertise with students and arranging the placement camps. One of the alumnus has contributed to start a lecture series on “Turing Awardees” which has become an annual affair strengthening the link between the present and past students of the department.

### 3. Vision

To impart training to analyze problems and develop human resources in order to produce computer Professionals, academics and researchers.

#### Mission

To train students for fundamental and advanced programming techniques right from essential mathematics and managerial science to high performance computing and soft computing.

#### Goals of the Department

1. To create a fine band of capable young researchers/ teachers /professionals with great thirst for new technologies, techniques and methodologies.
2. To produce technocrats to help society to cope up with challenges in new era of technologies.
3. To provide opportunities to young graduates of the university to reach his/her highest personnel and professional competence

#### Core Values

- To create a fine band of capable young researchers/ teachers /professionals with great thirst for new technologies, techniques and methodologies.
- To produce technocrats to help society to cope up with challenges in new era of technologies.
- To provide opportunities to young graduates of the university to reach his/her highest personnel and professional competence.
- To inculcate human values and professional ethics among students.

### 4. Academic Programmes offered with intake capacity :

Sr. No.	Programme	Year of Inception	Intake Capacity
1	M.C.A	1989	60
2	M.Sc.	2004	60
3	B.Sc.- M.Sc. AI & ML (five years integrated programme)	2024	30
4	BCA	2022	60
5	P.G. Diploma in Data Science(PGDDS)	2021	40
6	Ph.D.	2000	As per available vacancies

## 5. Programme Structure

### Structure in Accordance with National Education Policy - 2020

#### With Multiple Entry and Multiple Exit M.Sc. (Computer Science) Part – I (Level-6.0)

#### M.Sc. Part I - Semester I

	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures + Tutorial/ (Hours/ week)	Practical (Hours/ week)	Credit	Maximum Marks	Minimum Marks	Exam. Hours	Maximum Marks	Minimum Marks	Exam. Hours
<b>Semester-I</b>										
<b>Major Mandatory</b>	MMT-101	4	--	4	80	32	3	20	8	1
	MMT-102	4	--	4	80	32	3	20	8	1
	MMPR-103	--	8	4	80	32	3	20	8	1
	MMT-104	2	--	2	40	16	2	10	4	1
<b>Major Elective</b>	MET-105	4	--	4	80	32	3	20	8	1
	MET-106									
<b>Research Methodology</b>	RM-107	4	--	4	80	32	3	20	8	1
<b>Total</b>				22	440			110		
<b>Semester-II</b>										
<b>Major Mandatory</b>	MMT-201	4	--	4	80	32	3	20	8	1
	MMT-202	4	--	4	80	32	3	20	8	1
	MMPR - 203	--	8	4	80	32	3	20	8	1
	MMT-204	2	--	2	40	16	2	10	4	1
<b>Major Elective</b>	MET-205	4	--	4	80	32	3	20	8	1
	MET-206									
<b>OJT/FP</b>	OJT-207	--	--	4	*					
<b>Total</b>				22	440			110		
<b>Total (Sem I + Sem II)</b>				44						

<ul style="list-style-type: none"> <li>• MMT–Major Mandatory Theory</li> <li>• MMPR–Major Mandatory Practical</li> <li>• MET–Major Elective Theory</li> <li>• MEPR–Major Elective Practical</li> <li>• RM - Research Methodology</li> <li>• OJT/FP- On Job Training/ Field Project</li> </ul>	<ul style="list-style-type: none"> <li>• Total Marks for M.Sc.-I : <b>1100</b></li> <li>• Total Credits for M.Sc.-I (Semester I &amp; II) : 44</li> <li>• <b>Separate passing is mandatory for University and Internal Examinations</b></li> </ul>
*Evaluation scheme for OJT/FP shall be decided by concerned BOS	
• <b>Requirement for Entry at Level 6.0: Completion of Level 5.5</b>	
• <b>Requirement for Exit after Level 6.0: Students can exit after completion of Level 6.0 with Post Graduate Diploma in Computer Science</b>	
• <b>Requirement for Entry at Level 6.5: He/ She have completed MSc Part-I (Level 6.0)</b>	

**Structure in Accordance with National Education Policy - 2020 With Multiple Entry and Multiple Exit Options**

**M.Sc. (Computer Science) Part – II (Level-6.5)**

	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures + Tutorial (Per week)	Hours (Per week)	Credit	Maximum Marks	Minimum Marks	Exam. Hours	Maximum Marks	Minimum Marks	Exam. Hours
<b>Semester-III</b>										
<b>Major Mandatory</b>	MMT-301	4	--	4	80	32	3	20	8	1
	MMT-302	4	--	4	80	32	3	20	8	1
	MMPR-303	--	8	4	80	32	3	20	8	1
	MMT-304	2	--	2	40	16	2	10	4	1
<b>Major Elective</b>	MET-305	4	--	4	80	32	3	20	8	1
	MET-306									
<b>Research Project</b>	RP-307	--	--	4	80	32	--	20	8	--
<b>Total</b>				22	440			110		
<b>Semester-IV</b>										
<b>Major Mandatory</b>	MMT-401	4	--	4	80	32	3	20	8	1
	MMT-402	4	--	4	80	32	3	20	8	1
	MMPR-403	--	8	4	80	32	3	20	8	1
<b>Major Elective</b>	MET-404	4	--	4	80	32	3	20	8	1
	MET-405									
<b>Research Project</b>	RP-406	--	--	6	100	40	--	50	20	--
<b>Total</b>				22	420			130		
<b>Total (Sem III + Sem IV)</b>				44						

<ul style="list-style-type: none"> <li>• MMT–Major Mandatory Theory</li> <li>• MMPR–Major Mandatory Practical</li> <li>• MET–Major Elective Theory</li> <li>• MEPR–Major Elective Practical</li> <li>• RP- Research Project</li> </ul>	<ul style="list-style-type: none"> <li>• Total Marks for M.Sc.-II : <b>1100</b></li> </ul>
	<ul style="list-style-type: none"> <li>• Total Credits for M.Sc.-II (Semester III &amp; IV) : 44</li> </ul>
	<ul style="list-style-type: none"> <li>• <i>Separate passing is mandatory for University and Internal Examinations</i></li> </ul>
<p align="center"># Evaluation scheme for Research Project shall be decided by concerned BOS</p>	
<ul style="list-style-type: none"> <li>• <b>Requirement for Exit after Level 6.5:</b> Students can exit after completion of Level 6.5 with Master of Computer Science</li> </ul>	

## Course Codes

<b>M.Sc. Semester-I</b>		
Course Code	<b>Major Mandatory</b>	
MMT-101	Design and Analysis of Algorithms (4 credits)	<b>MSU0325MML99G1</b>
MMT-102	Advanced Database Management System (4 credits)	<b>MSU0325MML99G2</b>
MMPR-103	Practical-I (4 credits)	<b>MSU0325MMP99G1</b>
MMT-104	Web Design (2 credits)	<b>MSU0325MML99G3</b>
RM-107	Research Methodology (4 credits)	<b>MSU0325RML99G</b>
	<b>Major Elective</b>	
MET-105	Cyber Security (4 credits)	<b>MSU0325MEL99G1</b>
MET-106	Cloud Computing (4 credits)	<b>MSU0325MEL99G2</b>
<b>M.Sc. Semester-II</b>		
	<b>Major Mandatory</b>	
MMT-201	Advanced Java (4 credits)	<b>MSU0325MML99H1</b>
MMT-202	Artificial Intelligence (4 credits)	<b>MSU0325MML99H2</b>
MMPR-203	Practical-II (4 credits)	<b>MSU0325MMP99H1</b>
MMT-204	Angular JS (2 credits)	<b>MSU0325MML99H3</b>
OJT-207	Internship (4 credits)	<b>MSU0325OJ99H</b>
	<b>Major Elective</b>	
MET-205	Image Processing (4 credits)	<b>MSU0325MEL99H1</b>
MET-206	Block Chain Technology (4 credits)	<b>MSU0325MEL99H2</b>
<b>M.Sc. Semester-III</b>		
	<b>Major Mandatory</b>	
MMT-301	Advanced PHP (4 credits)	<b>MSU0325MML99I1</b>
MMT-302	Data Science (4 credits)	<b>MSU0325MML99I2</b>
MMPR-303	Practical-III (4 credits)	<b>MSU0325MMP99I1</b>
MMT-304	Data Engineering (2 credits)	<b>MSU0325MML99I3</b>
RP-307	Research Project (4 credits)	<b>MSU0325RP99I</b>
	<b>Major Elective</b>	
MET-305	Big Data Analytics (4 credits)	<b>MSU0325MEL99I1</b>
MET-306	Machine Learning (4 credits)	<b>MSU0325MEL99I2</b>
<b>M.Sc. Semester-IV</b>		
MMT-401	Mobile Application Development (4 credits)	<b>MSU0325MML99J1</b>
MMT-402	Full Stack Development (4 credits)	<b>MSU0325MML99J2</b>
MMPR-403	Practical-IV (4 credits)	<b>MSU0325MMP99J1</b>
RP-406	Research Project (6 credits)	<b>MSU0325RP99J</b>
	<b>Major Elective</b>	
MET-404	Natural Language Processing (4 credits)	<b>MSU0325MEL99J1</b>
MET-405	Agile Project Management (4 credits)	<b>MSU0325MEL99J2</b>

**B.Sc-M.Sc.-Integrated (AI & ML) (Five years Integrated Programme)**

**Part – I/ Semester – I**

<b>SEMESTER-I (Duration- Six Month)</b>										
Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures (Per week)	Hours (Per week)	Credit	Max. Marks	Min. Marks	Exam. Hours	Max. Marks	Min. Marks	Exam Hours
1	CC-101: Basics of Python	2	2	2	40	16		10	04	
2	CC -102: Fundamentals of Operating System	2	2	2	40	16		10	04	
3	CCPR -103: Programming with Python Lab	-	-	2	40	16		10	04	
4	Open Elective (OE): Mathematical foundation	2	2	2	40	16		10	04	
5	Open Elective (OE): Basics of RDBMS	2	2	2	40	16		10	04	
6	VSC: Fundamentals of Computers	2	2	2	40	16		10	04	
7	SEC: Office Automation	2	2	2	40	16		10	04	
8	AEC: Basics of Communication	2	2	2	40	16		10	04	
9	VEC: Fundamentals of Environmental Science	2	2	2	40	16		10	04	
10	IKS: Vedic Mathematics	2	2	2	40	16		10	04	
11	CC: Fundamentals of Electronics	2	2	2	40	16		10	04	
	<b>Total (A)</b>			22	440			110		

<b>SEMESTER-II (Duration- Six Month)</b>										
Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures (Per week)	Hours (Per week)	Credit	Max. Marks	Min. Marks	Exam. Hours	Max. Marks	Min. Marks	Exam Hours
1	CC-201: Advanced Python	2	2	2	40	16		10	04	
2	CC -202: Advanced Operating System	2	2	2	40	16		10	04	
3	CCPR -203: Advanced Python Lab	-	-	2	40	16		10	04	
4	Open Elective (OE): Essential mathematics	2	2	2	40	16		10	04	
5	Open Elective (OE): Advanced RDBMS	2	2	2	40	16		10	04	
6	VSC: System Analysis and Design	2	2	2	40	16		10	04	
7	SEC: Web Designing	2	2	2	40	16		10	04	
8	AEC: Business Communications	2	2	2	40	16		10	04	
9	VEC: Environmental Pollution	2	2	2	40	16		10	04	
10	IKS: Human Values, and Ethics	2	2	2	40	16		10	04	
11	CC: Introduction to Statistical analysis	2	2	2	40	16		10	04	
	Total (B)			22	440			110		
	<b>Total (A+B)</b>			<b>(22+22) 44</b>	<b>880</b>			<b>220</b>		



<ul style="list-style-type: none"> <li>• Student contact hours per week : <b>24 Hours (Min.)</b></li> </ul>	Total Marks for Master of Science AI and ML (Five years Integrated Programme) Part-I : 1100
<ul style="list-style-type: none"> <li>• Theory and Practical Lectures : <b>60 Minutes Each</b></li> </ul>	Total Credits for Master of Science AI and ML (Five years Integrated Programme) Part-I (Semester I & II) :44
<ul style="list-style-type: none"> <li>• CC-Core Course</li> <li>• CCPR-Core Course Practical</li> <li>• RM: Research Methodology</li> <li>• OJT: On job training Internship: Student must complete on job training/ Internship during summer break.</li> </ul>	<ul style="list-style-type: none"> <li>• Practical Examination is <b>Semester wise before theory Examination.</b></li> <li>• Examination for CCPR -103 shall be based on Semester-I Practical</li> <li>• Examination for CCPR -203 shall be based on Semester-II Practical.</li> <li>• *Duration of Practical Examination as per respective BOS guidelines</li> <li>• Separate passing is mandatory for Theory, Internal and Practical Examination</li> </ul>
<p><b>Requirement for Entry at Level 4.5:</b></p> <ol style="list-style-type: none"> <li>1. Passed HSC (10+2) from Science stream</li> <li>2. Admission will be based on MH-CET score.</li> <li>3. 20% seats are reserved for the students with JEE main score and 80% are reserved for the students with MH-CET score. Remaining seats if any will be filled with HSC (Science) score.</li> <li>4. Reservation policy will be as per university norms.</li> </ol>	
<ul style="list-style-type: none"> <li>• <b>Exit Option at Level 4.5:</b> Students can exit after Level 4.5 with under graduate <b>certificate course in Computer Science</b> if he/she completes the courses equivalent to minimum of <b>44</b> credits and an additional. 4 credits core NSQF course/Internship.</li> </ul>	

**Multiple Entry and Multiple Exit Option (NEP-2020)**  
**BCA Program Structure**  
**BCA Part - I (Level-4.5)**

<b>SEMESTER-I (Duration- Six Month)</b>										
Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures (Per week)	Hours (Per week)	Credit	Max. Marks	Min. Marks	Exam. Hours	Max. Marks	Min. Marks	Exam Hours
1	CC-101: Basics of C	2	2	2	40	16		10	04	
2	CC -102: Fundamentals of Operating System	2	2	2	40	16		10	04	
3	CCPR -103: Programming with C Lab	-	-	2	40	16		10	04	
4	Open Elective (OE): Basics of Electronics	2	2	2	40	16		10	04	
5	Open Elective (OE): Basics of RDBMS	2	2	2	40	16		10	04	
6	VSC: Fundamentals of Computers	2	2	2	40	16		10	04	
7	SEC: Office Automation	2	2	2	40	16		10	04	
8	AEC: Basics of Communication	2	2	2	40	16		10	04	
9	VEC: Fundamentals of Environmental Science	2	2	2	40	16		10	04	
10	IKS: Critical Thinking	2	2	2	40	16		10	04	
11	CC: Fundamentals of Mathematics	2	2	2	40	16		10	04	
	Total (A)			22	440			110		

<b>SEMESTER-II (Duration- Six Month)</b>										
Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures (Per week)	Hours (Per week)	Credit	Max. Marks	Min. Marks	Exam. Hours	Max. Marks	Min. Marks	Exam Hours
1	CC-201: Advanced C	2	2	2	40	16		10	04	
2	CC -202: Advanced Operating System	2	2	2	40	16		10	04	
3	CCPR -203: Advanced C Lab	-	-	2	40	16		10	04	
4	Open Elective (OE): Advanced Electronics	2	2	2	40	16		10	04	
5	Open Elective (OE): Advanced RDBMS	2	2	2	40	16		10	04	
6	VSC: System Analysis and Design	2	2	2	40	16		10	04	
7	SEC: Web Designing	2	2	2	40	16		10	04	
8	AEC: Business Communications	2	2	2	40	16		10	04	
9	VEC: Environmental Pollution	2	2	2	40	16		10	04	
10	IKS: Human Values, and Ethics	2	2	2	40	16		10	04	
11	CC: Matrices and Graph Theory	2	2	2	40	16		10	04	
	Total (B)			22	440			110		
	<b>Total (A+B)</b>			<b>(22+22) 44</b>	<b>880</b>			<b>220</b>		

<ul style="list-style-type: none"> <li>Student contact hours per week : <b>24</b> Hours (Min.)</li> </ul>	Total Marks for BCA-I: <b>1100</b>
<ul style="list-style-type: none"> <li>Theory and Practical Lectures : <b>60</b> Minutes Each</li> </ul>	<ul style="list-style-type: none"> <li>Total Credits for B.C.A-I (Semester I &amp; II) : 44</li> </ul>
<ul style="list-style-type: none"> <li>CC-Core Course</li> <li>CCPR-Core Course Practical</li> <li>RM: Research Methodology</li> <li>OJT: On job training Internship: Student must complete on job training/ Internship during summer break.</li> </ul>	<ul style="list-style-type: none"> <li>Practical Examination is <b>Semester wise before theory Examination.</b></li> <li>Examination for CCPR -103 shall be based on Semester-I Practical</li> <li>Examination for CCPR -203 shall be based on Semester-II Practical.</li> <li>*Duration of Practical Examination as per respective BOS guidelines</li> <li>Separate passing is mandatory for Theory, Internal and Practical Examination</li> </ul>
<ul style="list-style-type: none"> <li><b>Requirement for Entry at Level 4.5: Completed all requirements of the 10+2</b></li> </ul>	

- **Exit Option at Level 4.5:** Students can exit after Level 4.5 with under **certificate course in Computer Programming** if he/she completes the course equivalent to minimum of **44** credits and an additional. 4 credits core NSQF course/Internship.

**Multiple Entry and Multiple Exit Option (NEP-2020)**  
**BCA Program Structure**  
**BCA Part - II (Level-5.0)**

<b>SEMESTER-III (Duration- Six Month)</b>										
Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures (Per week)	Hours (Per week)	Credit	Max. Marks	Min. Marks	Exam. Hours	Max. Marks	Min. Marks	Exam Hours
1	CC-301: Basics of C++	2	2	2	40	16		10	04	
2	CC -302: Fundamentals of Software Engineering	2	2	2	40	16		10	04	
3	CCPR -303: Programming with C++ Lab	-	-	2	40	16		10	04	
4	Open Elective (OE): Data warehouse concepts	2	2	2	40	16		10	04	
5	Open Elective (OE): Basics of Networking	2	2	2	40	16		10	04	
6	VSC: Fundamentals of Cyber security	2	2	2	40	16		10	04	
7	SEC: Core Java	2	2	2	40	16		10	04	
8	AEC: Formal Communication	2	2	2	40	16		10	04	
9	VEC: Basics of Moral Education	2	2	2	40	16		10	04	
10	IKS: Basics of Yoga	2	2	2	40	16		10	04	
11	CC: Basics of Statistics	2	2	2	40	16		10	04	
	Total (A)			22	440			110		

<b>SEMESTER-IV (Duration- Six Month)</b>										
Sr. No.	Course Code	Teaching Scheme			Examination Scheme					
		Theory and Practical			University Assessment (UA)			Internal Assessment (IA)		
		Lectures (Per week)	Hours (Per week)	Credit	Max. Marks	Min. Marks	Exam. Hours	Max. Marks	Min. Marks	Exam Hours
1	CC-401: Advanced C++	2	2	2	40	16		10	04	
2	CC -402: Advanced Software Engineering	2	2	2	40	16		10	04	
3	CCPR -403: Advanced C++ Lab	-	-	2	40	16		10	04	
4	Open Elective (OE): Data warehouse techniques	2	2	2	40	16		10	04	
5	Open Elective (OE): Advanced Networking	2	2	2	40	16		10	04	
6	VSC: Essentials of Cyber security	2	2	2	40	16		10	04	
7	SEC: Java Programming	2	2	2	40	16		10	04	
8	AEC: Soft skills	2	2	2	40	16		10	04	
9	VEC: Moral Education	2	2	2	40	16		10	04	
10	IKS: Yoga	2	2	2	40	16		10	04	
11	CC: Fundamentals of Statistics	2	2	2	40	16		10	04	
	Total (B)			22	440			110		
	<b>Total (A+B)</b>			<b>44</b>	<b>880</b>			<b>220</b>		

<ul style="list-style-type: none"> <li>Student contact hours per week : <b>24</b> Hours (Min.)</li> </ul>	Total Marks for BCA-I: <b>1100</b>
<ul style="list-style-type: none"> <li>Theory and Practical Lectures : <b>60</b> Minutes Each</li> </ul>	<ul style="list-style-type: none"> <li>Total Credits for B.C.A-II (Semester III &amp; IV) : 44</li> </ul>
<ul style="list-style-type: none"> <li>CC-Core Course</li> <li>CCPR-Core Course Practical</li> <li>RM: Research Methodology</li> <li>OJT: On job training Internship: Student must complete on job training/ Internship during summer break.</li> </ul>	<ul style="list-style-type: none"> <li>Practical Examination is <b>Semester wise before theory Examination.</b></li> <li>Examination for CCPR -303 shall be based on Semester-III Practical</li> <li>Examination for CCPR -403 shall be based on Semester-IV Practical.</li> <li>*Duration of Practical Examination as per respective BOS guidelines</li> <li>Separate passing is mandatory for Theory, Internal and Practical Examination</li> </ul>
<ul style="list-style-type: none"> <li><b>Requirement for Entry at Level 5.0:</b> Must have completed Level 4.5</li> </ul>	
<ul style="list-style-type: none"> <li><b>Exit Option at Level 5.0:</b> Students can exit after Level 5.0 with under <b>Diploma course in Computer Application</b> if he/she completes the course equivalent to minimum of <b>44</b> credits</li> </ul>	

**BCA Part III Semester V & VI**

**(NEP-2020)**

**Syllabus to be implemented from Academic year 2024-25**

<b>SEMESTER V</b>																
<b>Courses</b>	<b>Sr.No</b>	<b>CourseCode</b>	<b>Teaching Scheme</b>						<b>Examination Scheme</b>							
			<b>Theory</b>			<b>Practical</b>			<b>Theory</b>				<b>Practical</b>			
			<b>Credits</b>	<b>No. of Lectures</b>	<b>Hours</b>	<b>Credits</b>	<b>No. of Lectures</b>	<b>Hours</b>	<b>Hours</b>	<b>Max</b>	<b>Total Marks</b>	<b>Min</b>	<b>Hours</b>	<b>Max</b>	<b>Min</b>	
<b>CGPA Courses</b>	1	DSCE1	2	5	4	-	-	-	2	50	100	40	-	-	-	
	2	DSCE2	2			-	-	-	2	50			-	-	-	
	3	DSCE3	2	5	4	-	-	-	2	50	100	40	-	-	-	
	4	DSCE4	2			-	-	-	2	50			-	-	-	
	5	DSCE5	2	5	4	-	-	-	2	50	100	40	-	-	-	
	6	DSCE6	2			-	-	-	2	50			-	-	-	
	7	DSCE7	2	5	4	-	-	-	2	50	100	40	-	-	-	
	8	DSCE8	2			-	-	-	2	50			-	-	-	
	9	DSCE9	-	-	-	2	5	4	-	-	-	-	2	50	20	
	10	DSCE10	-	-	-	2	5	4	-	-	-	-	2	50	20	
	11	DSCE11	-	-	-	2	5	4	-	-	-	-	2	50	20	
	<b>Total</b>		16	20	16	6	15	12			400	-	-	150	-	

**Discipline Specific Core (DSC) Courses  
Semester V**

<b>Sr.No.</b>	<b>Course Code</b>	<b>Name of Paper</b>	<b>Marks</b>
1.	DSCE1	Dot NET I	50 (Theory)
2.	DSCE2	Dot NET II	50 (Theory)
3.	DSCE3	Python Programming I	50 (Theory)
4.	DSCE4	Python Programming II	50 (Theory)
5.	DSCE5	Data Science I	50 (Theory)
6.	DSCE6	Data Science II	50 (Theory)
7.	DSCE7	E-Commerce I	50 (Theory)
8.	DSCE8	E-Commerce II	50 (Theory)
9.	DSCE9	Dot NET Lab	50 (Practical)
10.	DSCE10	Python Lab	50 (Practical)
11	DSCE11	Project I	50 (Practical)

SEMESTER VI																
Courses	Sr. No	Course Code	Teaching Scheme						Examination Scheme							
			Theory			Practical			Theory				Practical			
			Credits	No. of Lectures	Hours	Credits	No. of Lectures	Hours	Hours	Max	Total Marks	Min	Hours	Max	Min	
CGPA Courses	1	DSCF1	2	5	4	-	-	-	2	50	100	40	-	-	-	
	2	DSCF2	2			2	50	-	-	-						
	3	DSCF3	2	5	4	-	-	-	2	50	100	40	-	-	-	
	4	DSCF4	2			2	50	-	-	-						
	5	DSCF5	2	5	4	-	-	-	2	50	100	40	-	-	-	
	6	DSCF6	2			2	50	-	-	-						
	7	DSCF7	2	5	4				2	50	100	40	-	-	-	
	8	DSCF8	2			2	50	-	-	-						
	9	DSCF9	-	-	-	2	5	4	-	-	-	-	2	50	20	
	10	DSCF10	-	-	-	2	5	4	-	-	-	-	2	50	20	
	11	DSCF11	-	-	-	2	5	4	-	-	-	-	2	50	20	
		Total	16	20	16	6	15	12			400	-	-	150	-	

**Discipline Specific Core (DSC) Courses  
Semester VI**

Sr. No.	Course Code	Name of Paper	Marks
1.	DSCF1	PHP I	50 (Theory)
2.	DSCF2	PHP II	50 (Theory)
3.	DSCF3	Java I	50 (Theory)
4.	DSCF4	Java II	50 (Theory)
5.	DSCF5	Machine Learning I	50 (Theory)
6.	DSCF6	Machine Learning II	50 (Theory)
7.	DSCF7	Cloud Computing I	50 (Theory)
8.	DSCF8	Cloud Computing II	50 (Theory)
9.	DSCF9	PHP Lab	50 (Practical)
10.	DSCF10	Java Lab	50 (Practical)
11	DSCF11	Project II	50 (Practical)

**Post Graduate Diploma in Data Science (PGDDS)**  
**(Under Faculty of Science and Technology)**  
**To be implemented from the academic year 2021-22**

Sr. No	Course code	Course title	Theory contact hours per week	Practical hours per week	Credits	University exam	Internal continuous assessment	Total
1	DDS-1	Foundations Of Data Science	2	-	4	50	50	100
2	DDS-2	Python for Data Science	2	-	4	50	50	100
3	DDS-3	AI and Machine Learning	2	-	4	50	50	100
4	DDS-4	Deep Learning	2	-	4	50	50	100
5	DDS-5	Lab I(Based on DDS-2)	-	5	4	80	20	100
6	DDS-6	Lab II(Based on DDS-3 and DDS-4)	-	5	4	80	20	100
7	DDS-7	Project	-	2	4	80	20	100
		Total	8	12	28	440	260	700



## 6. Outcome Based Education:

**Name of Programme : Master of Computer Application (MCA)**

<b>Program Outcomes</b>
<ol style="list-style-type: none"><li>1. Nurture knowledgeable and skilled human resources, employable in Information and Communication Technology (ICT) and Information Technology Enable Services (ITES).</li><li>2. Ability to apply knowledge of Mathematical Foundations in computing problems.</li><li>3. Impart knowledge required for planning, designing and building complex Application.</li><li>4. Software Systems as well as provide support to automated systems or application.</li><li>5. Produce entrepreneurs who can develop customized software solutions for small to large Enterprises.</li><li>6. Ability to apply modern IT tools and computational knowledge for developing solutions</li><li>7. In context to societal, environmental and sustainable development with ethical and Professional responsibility.</li><li>8. Ability to function as an effective communicator and team member through essential Skills in multidisciplinary projects.</li></ol>
<b>Program Specific Outcomes</b>
<ol style="list-style-type: none"><li>1. Understand the concepts and applications in the field of Computing Sciences like Web designing and development, Mobile application development, and Network and communication technologies.</li><li>2. Apply the learning from the courses and develop applications for real world problems.</li><li>3. Understand the technological developments in the usage of modern design and development toolsto analyze and design for a variety of applications.</li><li>4. Communicate in both oral and written forms, demonstrating the practice of professional ethics and the concerns for social welfare.</li></ol>

**Name of Programme: Master of Computer Science (M.Sc.)**

<b>Program Outcomes</b>
<ol style="list-style-type: none"><li>1. Communicate computer science concepts, designs, and solutions effectively and professionally</li><li>2. Apply knowledge of computing to produce effective designs and solutions for specific problems</li><li>3. Identify, analyse, and synthesize scholarly literature relating to the field of computer science.</li><li>4. Use software development tools, software systems, and modern computing platforms.</li><li>5. Prepare for academic roles through NET/SET/PhD</li><li>6. Apply design and development principles in the construction of software systems of varying complexity.</li></ol>
<b>Program Specific Outcomes</b>
<ol style="list-style-type: none"><li>1. Demonstrate understanding of the principles and working of the hardware and softwareaspects of computer systems.</li><li>2. Ability to understand the structure and development methodologies of software systems. Possess professional skills and knowledge of software design process.</li><li>3. Familiarity and practical competence with a broad range of programming language and open Source platforms.</li><li>4. Be acquainted with the contemporary issues, latest trends in technological development andthere by innovate new ideas and solutions to existing problems.</li></ol>

## **Name of Programme: Bachelor of Computer Application (BCA)**

### **Program Outcomes**

Upon successful completion of the BCA, the student should have met the following Outcomes:

1. Appreciate and apply mathematical organization, computing, and domain information for the conceptualization of computing models from clear harms.
2. Facility to apply and give expert principles and cyber systems in a universal monetary Situation.
3. Ability to function as an effective communicator and team member through essential skills in multidisciplinary projects.
4. Understand, analyze and develop computer programs in the areas related to algorithms, web design, and networking for efficient design of the computer-based system.
5. Classify opportunities, private enterprise dreams, and use of original thoughts to build worth and means for the betterment of the human being and the world.
6. Work in the IT sector as a system engineer, software tester, junior programmer, web developer, system administrator, software developer, etc.
7. To develop an interdisciplinary approach among the students.

### **Program Specific Outcomes**

1. An ability to enhance the application of knowledge of theory subjects in diverse fields.
2. Encouraging students to convert their start-up idea to reality by implementing.
3. Focuses on preparing the student for roles in computer applications and the IT industry.
4. Develop programming skills, networking skills, learn applications, packages, programming languages, and modern techniques of IT.
5. Information about various computer applications and the latest development in IT and communication systems is also provided .
6. Ability to identify, formulates, analyze and solve problems of programming using different languages.
7. Take up self-employment in the Indian & global software market.
8. To pursue a career in the corporate sector can opt for M.Sc, MCA.
9. The student will be able to know various issues, and the latest trends in technology development and thereby innovate new ideas and solutions to existing problems.

## 7. Faculty Details

1	Name	Dr. Kavita S. Oza			
2	Date of Birth	06-05-1970			
3	Unique ID	50052			
4	Education Qualifications	BSc. MCA, PhD			
5	Work Experience	Teaching	Research	Industry	Others
		25	13	---	----
6	Area of Specialization	AI & Machine Learning			
7	Courses taught	DAA, Theory of Computation, AI, Android fundamentals with Kotlin, Machine Learning			
8	Research guidance (Number of Students)	10			
9	No. of papers published	National Journals	International Journals	National Conferences	International Conferences
		02	67	19	19
10	Ph.D.	Completed		Ongoing	
		05		05	
11	Projects Carried out	03			
12	Patents (& Granted)	Filed		Granted	
		01		01	
13	Technology Transfer				
14	Research Publications	National Journals	International Journals	National Conferences	International Conferences
		02	67	19	19
15	Books published with details	Name of the book	Publisher with ISBN	Year of publication	
			17	2015-2023	
16	Date of Joining	07-09-1999			
17	Date of Retirement	31-05-2030			
18	Type of association				
19	Permanent Faculty	yes			
20	Adjunct Faculty				
21	Visiting faculty				

1	Name	Dr. Urmila R. Pol			
2	Date of Birth	28/06/1969			
3	Unique ID	U-0010/5			
4	Education Qualifications	MCA, Ph.D.			
5	Work Experience	Teaching	Research	Industry	Others
		26	20	1	2
6	Area of Specialization	Data Science. Machine Learning, AI, LMS, Open Source Technologies			
7	Courses taught	Advanced Java, PHP, Data science, AI, Mobile Application Development, Android , Kotlin, Linux Operating System.			
8	Research guidance (Number of Students)	4			
9	No. of papers published	National Journals	International Journals	National Conferences	International Conferences
10	Ph.D.	Completed		Ongoing	
		2		2	
11	Projects Carried out	3			
12	Patents (& Granted)	Filed		Granted	
		6			
13	Technology Transfer				
14	Research Publications	National Journals	International Journals	National Conferences	International Conferences
		4	19	7	7
15	Books published with details	Name of the book		Publisher with ISBN	Year of publication
		1. Book- Advance Java Published BY Shiv-India Institute of management & technology SIIMT-Accra, Ghana 2. BOOK- Referance Guide To Android Application Development Shiv-India Institute		1. 978-9988-2-0504-1	

		<p>of management &amp; technology SIIMT-Accra, Ghana</p> <p>3. BOOK- Linux In easy way Shiv-India Institute of management &amp; technology SIIMT-Accra, Ghana</p> <p>4. BOOK- big data Shiv-India Institute of management &amp; technology SIIMT-Accra, Ghana</p> <p>5. BOOK- Java Programming Shiv-India Institute of management &amp; technology SIIMT-Accra, Ghana</p> <p>6. BOOK- HTML Shiv-India Institute of management &amp; technology SIIMT-Accra, Ghana</p> <p>7. BOOK- C++ programming in easy way Shiv-India Institute of management &amp; technology SIIMT-Accra, Ghana</p> <p>8. cyber shikshak</p>	<p>2. 978-9988-2-863-7</p> <p>3. 978-9988-2-3624-3</p> <p>4. 978-9988-2-3623-6</p> <p>5. 978-9988-2-0504-1</p> <p>6. 978-9988-2-0505-8</p> <p>7. 978-9988-2-0503-4</p> <p>8. 978-81-951460-5-5</p>	
16	Date of Joining	5/03/2008		
17	Date of Retirement	30/06/2029		
18	Type of association			
19	Permanent Faculty	yes		
20	Adjunct Faculty			
21	Visiting faculty			

1	Name	Dr. Kabir G. Kharade			
2	Date of Birth	22/07/1987			
3	Unique ID	U-0010/240			
4	Education Qualifications	MCA, Ph.D.			
5	Work Experience	Teaching	Research	Industry	Others
		12	7	0	0
6	Area of Specialization	Artificial Intelligence, Machine Learning,			
7	Courses taught	Web Technology			
8	Research guidance (Number of Students)	0			
9	No. of papers published	National Journals	International Journals	National Conferences	International Conferences
		0	30	20	14
10	Ph.D.	Completed			
11	Projects Carried out	0			
12	Patents (& Granted)	Filed		Granted	
		02		02	
13	Technology Transfer				
14	Research Publications	National Journals	International Journals	National Conferences	International Conferences
			30		
15	Books published with details	Name of the book	Publisher with ISBN	Year of publication	
			11	2023	
16	Date of Joining	25/10/2012			
17	Date of Retirement	-			
18	Type of association				
19	Permanent Faculty				
20	Adjunct Faculty				
21	Visiting faculty				

1	Name	Dr. Smita Vishal Katkar			
2	Date of Birth	06/12/1988			
3	Unique ID	U-0010/249			
4	Education Qualifications	MCA, Ph.D			
5	Work Experience	Teaching	Research	Industry	Others
		12 years	9 Years		
6	Area of Specialization	Soft Computing			
7	Courses taught	MCA, M.Sc, BCA,PGDDS			
8	Research guidance (Number of Students)				
9	No. of papers/Book Chapters published	National Journals	International Journals	National Conferences	International Conferences
			21	7	
10	Ph.D.	Completed		Ongoing	
11	Projects Carried out				
12	Patents (& Granted)	Filed		Granted	
		7			
13	Technology Transfer				
14	Research Publications	National Journals	International Journals	National Conferences	International Conferences
			11		
15	Books published with details	Name of the book	Publisher with ISBN	Year of publication	
16	Date of Joining	4 August 2014			
17	Date of Retirement				
18	Type of association				
19	Permanent Faculty				
20	Adjunct Faculty				
21	Visiting faculty				

1	Name	Dr. Sheetal Sachin Gaikwad			
2	Date of Birth	01/03/1980			
3	Unique ID	50568			
4	Education Qualifications	MCA, Ph.D			
5	Work Experience	Teaching	Research	Industry	Others
		15 years	12 Years		
6	Area of Specialization	Mobile Adhoc Network			
7	Courses taught	MCA,M.Sc, BCA.			
8	Research guidance (Number of Students)				
9	No. of papers/Book Chapters published	National Journals	International Journals	National Conferences	International Conferences
			12	3	23
10	Ph.D.	Completed		Ongoing	
11	Projects Carried out				
12	Patents (& Granted)	Filed		Granted	
		2			
13	Technology Transfer				
14	Research Publications	National Journals	International Journals	National Conferences	International Conferences
			12		
15	Books published with details	Name of the book	Publisher with ISBN		Year of publication
		1.Theory problems and Solutions.	Pacific publication,ISBN- 978-93-92469-49- 7,		August-2022
		2. book- Synergistic Interaction of Big Data with Cloud Computing for Industry 4.0	ISBN: 9781003279044  Taylor and Francis Group		2023
		3. Machine Learning Applications: From Computer Vision to Robotics	ISBN: 978-1-394- 17334-1 Wiley – IEEE Press		December 2023
16	Date of Joining	4 August 2018			
17	Date of Retirement				

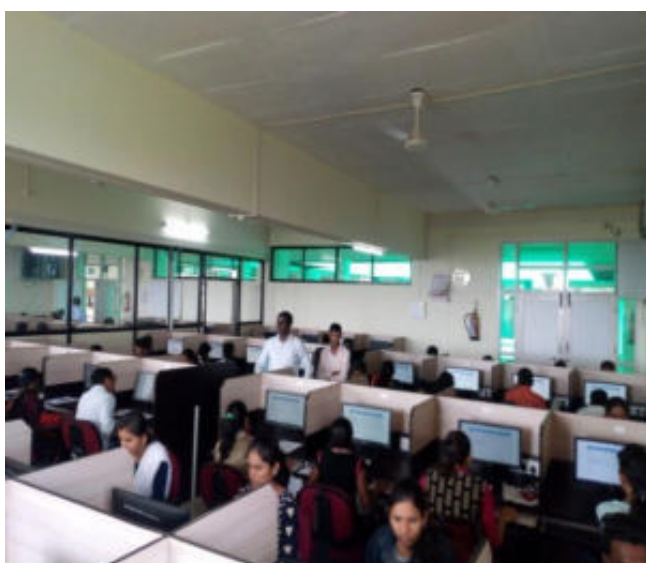
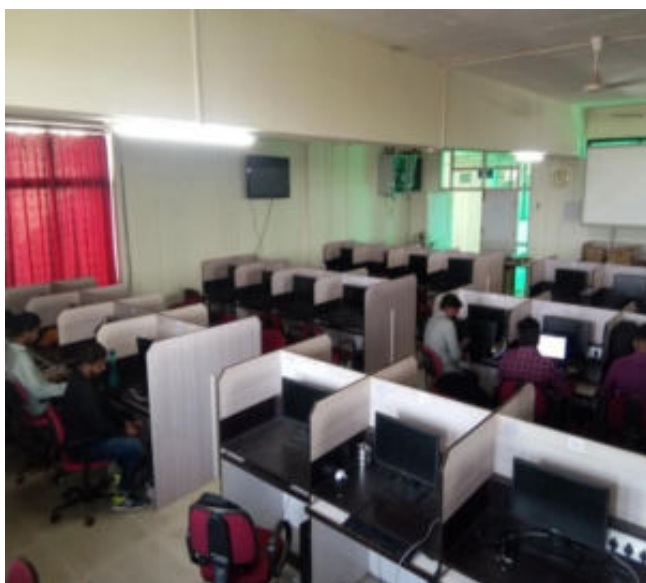


18	Type of association	
19	Permanent Faculty	
20	Adjunct Faculty	
21	Visiting faculty	

1	Name	Mr. Prasad Tulsidas Goyal			
2	Date of Birth	08/05/1985			
3	Unique ID	50310			
4	Education Qualifications	MCA, NET			
5	Work Experience	Teaching	Research	Industry	Others
		14			
6	Area of Specialization	Machine Learning, Web Mining			
7	Courses taught	MCA, M.Sc Computer Science, BCA			
8	Research guidance (Number of Students)				
9	No. of papers published	National Journals	International Journals	National Conferences	International Conferences
				2	2
10	Ph.D.	Completed		Ongoing	
11	Projects Carried out				
12	Patents (& Granted)	Filed		Granted	
13	Technology Transfer				
14	Research Publications	National Journals	International Journals	National Conferences	International Conferences
15	Books published with details	Name of the book	Publisher with ISBN	Year of publication	
16	Date of Joining	07/07/2013			
17	Date of Retirement				
18	Type of association				
19	Permanent Faculty				
20	Adjunct Faculty				
21	Visiting faculty				

## 8. Details of Research Laboratories & infrastructure

Total 180 computer nodes with internet connectivity.



## 9. Total No. of SET/NET qualified students

Total Number of Students Qualifying NET Exam=6

Total Number of Students Qualifying SLET Exam=8

## 10. Details of MoUs and Linkages

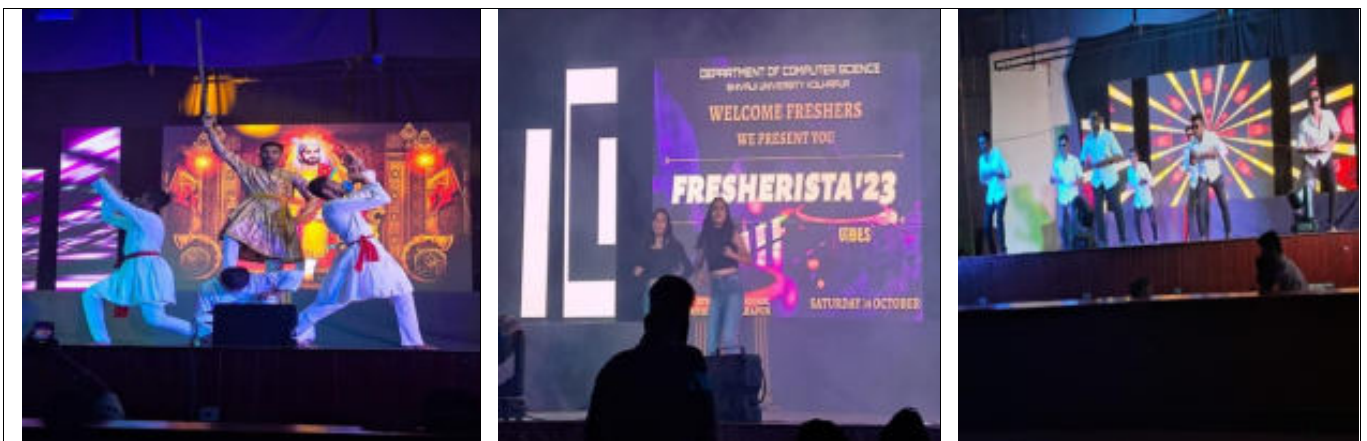
- a. This Memorandum of Understanding (“MOU”) is made on the 10th day of April, 2017 at Pune by and between Quick Heal Foundation, registered under Bombay Public Trusts Act 1950
- b. Centre for Advanced Computing(C-DAC), Pune (Scientific Society of the MCIT, Govt. of India)
- c. Collaboration Agreement (Android Development with Kotlin Training), Google Asia PacificPte.Ltd.

## 11. Extracurricular and Extension activities

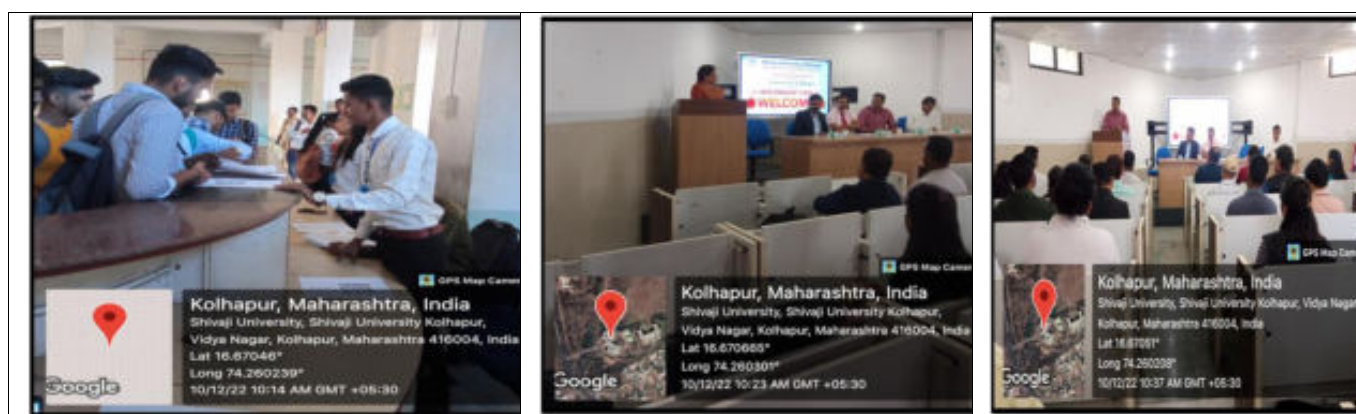
### International Women’s Day



### Fresher’s Event 2023



## Internship Fair 2022



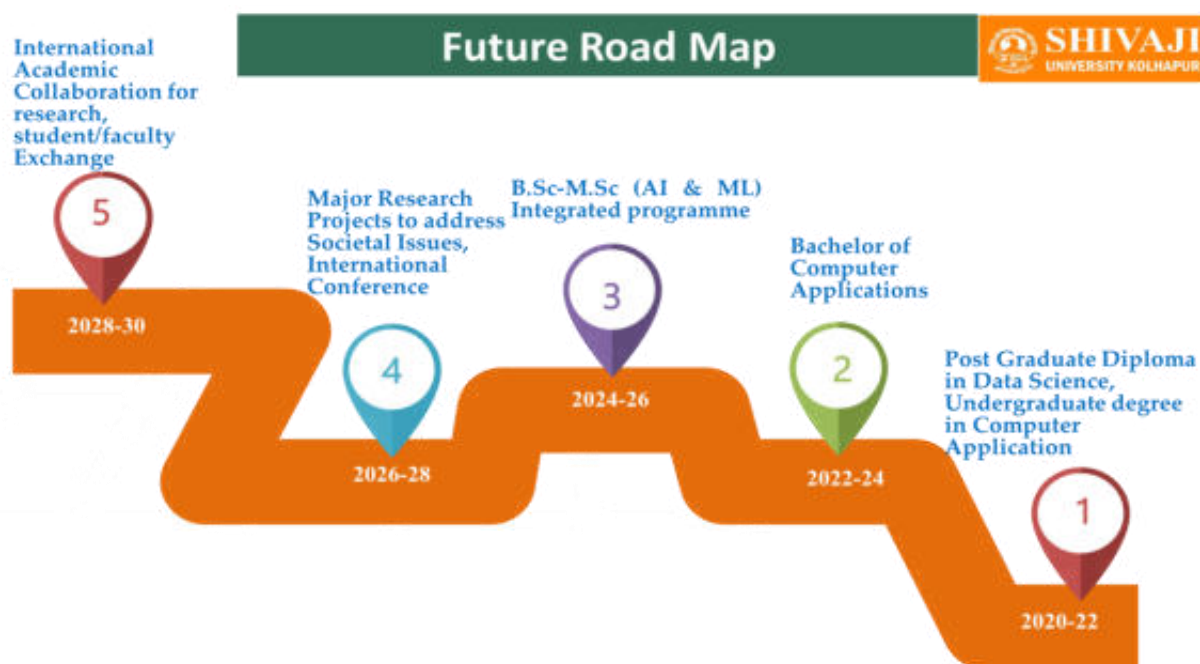
### 12. List of Distinguished Alumni

Sr No	Name	Designation	Company name
1	Aarti Kurkute	Software Developer	Visual Lease Edison, New Jersey, United States
2	Pratap Patil	Senior Consultant	Capgemini Villa Park, Illinois, United States
3	Sumitra Gatade	Technical Design Authority	Vodafone UK, London, England, United Kingdom
4	Chandrashekhar Ambi	Software Test Specialist	Amdocs, Pune
5	Ravi Mali	Director	NeuroLogic Solutions, Pune
6	Sanjeev Chandne	Senior Software Engineer	IBM, Bangalore
7	Anand Ukaranade	Senior Software Engineer	Dell, Bangalore
8	Amit Rote	Lead iOS Developer	NSAmi San Jose, California
9	Ravindra Satpute	Solution architect	Zensar Technology, Pune
10	Sunny Chougule	Project Delivery Manager	Deloitte Sacramento, California, United States
11	Sandhya Shahaji Pawar	Software Engineer II	Microsoft one microsoft way redmond wa 98052
12	Anil Gurav	Senior Leader	Zensar Technology, Pune
13	Nandkumar Joshi	Senior Software Engineer	Persistent Systems, Pune
14	Abhijeet Marathe	Senior Software Engineer	Persistent Systems, Pune
15	Mukesh Kamble	Account Architect	ISSQUARED, Inc. Pune, Maharashtra, India
16	Himmat Jadhav	Senior Account Manager	Persistent Systems Ltd., Pune
17	Laxman Gulawani	Founder, Principal Architect at Anar Solutions	AnAr Solutions Pvt. Ltd., Pune
18	Dhirajprasad Hanchanalkar	Senior Account Manager	Tech Mahindra, Pune
19	Sangram Barge	Director	Chankya Software, Pune
20	Mahesh Rajmane	Director	Netscout, Pune
21	Sameer Vijapure	Senior Software Designer	Persistent Systems, Pune
22	Abhijeet Joglekar	Senior Software Engineer	Persistent Systems, Pune
23	Madhukar Latane	Senior Leader	Zensar Technology, Pune



24	Nilesh Mahadik	Project Associate	Cognizant Pune, Maharashtra, India
25	Mr. Abhijeet Redekar	Statistical Officer	Shivaji University, Kolhapur
26	Sachin T.Zambre	Software Engineer	Kale Logistics Pvt.Ltd
27	Rekha S.Chavan	Software Engineer	Kale Logistics Pvt.Ltd
28	Asim F.Khan	Software Engineer	HCL Technologies Pvt.Ltd
29	Mayur Patil	Software Engineer	Vyom Lab, Pune
30	Rishikesh Ombase	Software Engineer	Eye, Mumbai.

### 13. Future roadmap of the department



### 14. Media coverage of the Department





# BUDGET



## पोहोचावे शेतकऱ्यां

**वैदेशीय** अर्थसंशोधनपरिषदेचे अध्यक्ष असलेल्या व.स.वि.स.च्या अध्यक्षीय बैठकीत जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी...

जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी...

जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी...

### भ्राता सरकारने 'मेक इन इंडिया' हा

प्रमुख धोरण अंमलबजावणीत घ्यावा असा निर्णय घ्यावा. यातूनच 'मेक इन इंडिया' हा प्रमुख धोरण अंमलबजावणीत घ्यावा असा निर्णय घ्यावा.

## 'मेक इन इंडिया' विंग

जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी जिल्हा सरकारच्या अर्थसंचालकांनी...



विज्ञानातून जन्म आपुला..!

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## विद्यार्थ्यांचे केले संशोधन : मैहरजर राहिल्यास पालकांच्या मोबाईलवर मेसेज विद्यापीठातील विद्यार्थ्यांची हजेरी वायरलेस यंत्रावर

### प्रयोग सिद्ध ० कॅम्पस

विद्यार्थ्यांचे केले संशोधन : मैहरजर राहिल्यास पालकांच्या मोबाईलवर मेसेज विद्यापीठातील विद्यार्थ्यांची हजेरी वायरलेस यंत्रावर

- मोबाईलवर मेसेज...
- वायरलेस यंत्रावर...
- विद्यार्थ्यांचे केले संशोधन...

## Soon, city to house cyber security resource centre

**Bryant Shivan** / TNN / Updated: Nov 15, 2018, 12:52 IST

The building is expected to come up in a year. KOLHAPUR. The country's first National Resource Centre in Cyber Security and Data Sciences will be housed at Shivaji University, Kolhapur (SUK). Training will be given under the Prasth Muktan Mission on Teachers and Teaching (PMOTNTT) scheme and subjects like cyber covered.

"The first batch of the cyber security course will start from November 26. A special web portal has been developed for this. We have got a good response initially, as is training," Kamat said.

The resource centre will be useful for offering cyber security and safety audit to government and corporate offices, Kamat said. In September, a presentation regarding training of human resources development, Kamat said.

"These are many cyber security breaches we can witness in our daily lives and our centre will help in making sure these get noticed by the laymen as well as profession and in the knowledge on how to overcome these. It will be useful particularly for agriculture, defence, education, and industries sector," Kamat said.

"An amount of Rs 7 crore has been granted by the HRD ministry and depending on the work, it will be allotted in installments," he said, adding that Shivaji University construction of the resource centre and a nod is expected for this at the next management council meeting. The building is expected to come up in a year. Vice-chancellor prore a milestone for SUK, as it would be the first centre of its kind in the country - several universities were in the race for this, he said.

### लोकामत

#### झाडांना मिळणार गरजेनुसार पाणी

मोबाईल आणि विकसित : विद्यार्थ्यांच्या हजेरी वायरलेस यंत्रावर

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