



WELCOME TO A UNIVERSE OF POSSIBILITIES



SCHOOL OF  
**COMPUTER SCIENCE**

**TRANSFORM  
YOUR WORLD...**

**BSc** **BCA**  
Computer Science Science



Apply online

**3<sup>rd</sup>** Best University To  
Study In India  
(India Today 2018)

[mitwpu.edu.in](http://mitwpu.edu.in)



## About the School of Computer Science

The School of Computer Science under the Faculty of Science, imparts higher learning and research programme in the stream of Computer Science.

Study and Research in Science where knowledge of basic and applied sciences are used for the betterment of humanity. Science professional study and give solutions to the day to day problems in society. Their primary job function includes

## About the Program

Bachelor of Science (Computer Science) is three years Full-Time degree programme. This programme is designed to develop a student's knowledge of computer science from basics to high-level programming. The programme focuses

## Role of Graduates

- Computer Science field is an ever-changing and evolving field. The role of a graduate student with a Bachelor of Science (Computer Science) degree:
- IT Industry: Designing and developing software systems/ applications
- IT-enabled Services: To give support and services to existing systems.

## Industry Academia Tie-up



activities such as teaching, research, innovative design for development.

Our vision at the School of Computer Science is to create a community of Technological Experts who will be able to excel individually and collaboratively in the field of computer science and applications for betterment of society.

on programming languages, databases and web development courses. Students completing this programme often have an increased ability to think logically, critically, rapidly and efficiently solve problems and develop software.

- Banking: Technical implementation and troubleshooting
- Health care: Automation of health care systems
- Research: Problem analysis, design and development
- Government: Automate various processes

## Career Opportunities

- Students have the following employment opportunities:
- Software Engineer
- System Analyst
- Technical Analyst
- Software Developer
- System Support Manager
- Programmer
- Database Administrator
- Network Support Executive
- Web Designer
- Web Developer
- Network Analyst.
- Technical Support Developer
- Software QA
- Higher Studies Opportunities
  - M.Sc (Computer Science)
  - M.Sc (Data Analytics/IT/CS/IS)
  - MCA(Science)
  - MCA(Management)
  - MBA

Intake: 120 students  
 Duration: Three Years  
 Trimesters: 9

## About the Program

Bachelor of Computer Application (BCA) is a three-year Full-Time undergraduate programme in computer applications which is designed to meet the skilled human resource in the computer field.

The programme focuses on foundation courses like core programming languages ('C' and 'java'), Database, Networking, Data Structure, as well as current technologies like Python, Artificial Intelligence, Machine Learning, Android and AngularJS.

The curriculum has been designed keeping in view the requirements of the IT industry and higher studies in the form of MCA, MS in computers etc, and thus acquire greater competency. The contents of various courses have been evolved with intensive inputs from experts from academia and industry.

After successful completion of this programme, students can design, develop and implement computer applications.



Intake: 120 students  
Duration: Three Years  
Trimesters: 9

## Role of Graduates

Computer Applications field is an ever-changing and evolving field. The role of a graduate student with a Bachelor of Computer Applications degree:

- IT Industry: Designing and developing software systems/ applications
- IT-enabled Services: To give support and services to existing systems.
- Banking: Technical implementation and troubleshooting
- Health care: Automation of health care systems
- Research: Problem analysis, design and development
- Government: Automate various processes

## Career Opportunities

- Students have the following employment opportunities:
  - Solutions architect
  - Software engineer
  - System analyst
  - Technical analyst
  - Software developer
  - System support manager
  - Software Programmer
  - Database administrator
  - Network support executive
  - Web designer
  - Web developer
  - Network analyst.
  - Technical Support Developer
    - MCA (Science)
    - MCA (Management)
    - MBA

## Industry Academia Tie-up

- Amdocs India has setup "AMDOCS Innovation Lab" on campus exclusively for students to work towards making their innovative ideas a reality.
- IBM has set up "Centre of Excellence" and Business Transformation Program on Campus.
- Siemens has set up "Unified Communication Lab" for research in Communication Business.
- Centre of Excellence for LTE | 5G Technologies.
- Member of CISCO Networking Academy. Received Best Local Academy Award in CISCO - SAARC Conference at Bengaluru in June 2008. CISCO Certified Network Associate (CCNA) program contains CCNA Exploration Version 4.0.
- Xpanxion International
- Cybage Software Pvt. Ltd
- Inteliment Technologies
- Barclays Technology Center
- Huda Technologies

## Industry Academia Tie-up





## Program Structure Bachelor of Science (Computer Science) Trimester Credits: 120

### 1<sup>st</sup> TRIMESTER

- Basic Programming using C
- Database Management System
- Fundamentals of Mathematics
- Introduction to Analog & Digital Electronics
- Lab on C & DBMS
- Lab on Analog & Digital Electronics
- World famous Philosophers, Saints /Sages and great Kings

### 3<sup>rd</sup> TRIMESTER

- Data Structure using C
- Software Engineering
- Linear Algebra
- Microprocessor Family
- Lab on Data Structure using C
- Lab on Microprocessor
- Study of Languages, Peace in Communications and Human Dynamics

### 5<sup>th</sup> TRIMESTER

- Core Java
- Internet Programming using PHP
- Numerical Computational Methods
- Object Oriented Software Engineering
- Data Communication & Networking
- Lab on Core JAVA & PHP
- Lab on Data Communication & Networking
- Philosophy of Science and Religion/Spirituality

### 7<sup>th</sup> TRIMESTER

- Introduction to Machine Learning
- Mobile Operating System
- Software Testing and Quality Assurance
- Lab on ML & Mobile Application Development
- Discipline Specific Elective (DSE) - II
- Open Elective
- Mini Project
- Humanities-Ethical, Moral and Social Sciences

### 9<sup>th</sup> TRIMESTER

- Full Time Industry Project - Internship
- MOOC

### 2<sup>nd</sup> TRIMESTER

- Advanced C Programming
- Relational Database Management System
- Fundamentals of Statistics
- Advanced Digital Electronics
- Lab on Advanced C & RDBMS
- Lab on Advanced Digital Electronics
- Business Communication

### 4<sup>th</sup> TRIMESTER

- Object Oriented Programming using CPP
- Web Development
- Graph Theory
- Microcontroller
- Lab on CPP & Web Development
- Lab on Microcontroller
- Environmental Science

### 6<sup>th</sup> TRIMESTER

- Advanced Java
- Operating System
- Network Security
- Lab on Advanced Java
- Lab on Python
- Discipline Specific Elective (DSE) - I
- Scientific studies of mind, matter, spirit and consciousness

### 8<sup>th</sup> TRIMESTER

- ASP.NET
- Introduction to Artificial Intelligence
- Internet of Things
- Lab on ASP.NET & AI
- Discipline Specific Elective (DSE)- III
- Open Elective
- Mini Project
- MOOC

### Elective Courses

Elective	Title	Title	Title
Elect I	Introduction to UNIX & Shell Scripting	Introduction to Data Science using Python	Computer Graphics
Elect II	Software Project Management	R Programming	Introduction to Digital Image Processing
Elect III	Basics of Cloud Computing	Introduction to Next Generation Databases	Mobile Communication

**Program Structure Bachelor in Computer Application (BCA)  
Trimester Credits: 120**

**1<sup>st</sup> TRIMESTER**

- Programming in C
- Database Management System
- Introduction to Digital Electronics
- Lab on Programming in C & DBMS
- Business communication
- World Famous Philosophers,
- Sages/Saints and Great Kings

**3<sup>rd</sup> TRIMESTER**

- Data Structures using C
- Web Technologies - I
- Operation Research
- Software Engineering
- Lab on Data Structure & Web
- Technologies - I
- Study of Languages, Peace in
- Communications and Human Dynamics

**5<sup>th</sup> TRIMESTER**

- Programming in JAVA
- Python
- Network Security
- Artificial Intelligence
- Object Oriented Software engineering
- Lab on Java & Python
- Philosophy of Science and Religion/Spirituality

**7<sup>th</sup> TRIMESTER**

- Mobile Application Development- I
- Angular
- Information Security
- Lab on Mobile Application Development- I & Angular
- Discipline Specific Elective - II
- Mini Project
- Indian tradition, Culture and Heritage

**9<sup>th</sup> TRIMESTER**

- Internship
- MOOC

**2<sup>nd</sup> TRIMESTER**

- Advanced C
- Relational Database Management System
- Discrete Mathematics
- Computer Organization & Introduction to Microprocessor
- Lab on Advanced C & RDBMS
- Environmental Science
- Environmental Science

**4<sup>th</sup> TRIMESTER**

- Object Oriented Programming using C++
- Advanced Web Technologies
- Computer Networks
- Operating Systems
- Lab on C++ & Advanced Web
- Technologies
- MOOC
- Open Elective

**6<sup>th</sup> TRIMESTER**

- ASP. NET
- Advanced Java
- Software Project Management
- Lab on ASP. NET & Advanced Java
- Discipline Specific Elective - I
- UML Tools for Software Development
- Humanities -Ethical, Moral and Social Sciences

**8<sup>th</sup> TRIMESTER**

- Mobile Application Development- II
- Internet of Things
- Introduction to Machine Learning
- Lab on Mobile Application Development- II & ML
- Discipline Specific Elective - III
- Open Elective
- Mini Project

**Elective Courses**

Elective	Title	Title	Title
Elect I	Data Mining and Warehousing	Agile Frameworks	Advanced Database Management System
Elect II	Introduction to Data Science	Automation Testing-I	Database Administration - I
Elect III	Cloud Computing	Automation Testing II	Database Administration - II



### The Advisory Board



**Ram Prasad**  
Executive President  
Xpanxion International



**Sanjay Patwardhan**  
Head BI &  
Data Analytics COE,  
Cybage



**Nitin Mulay**  
Sr. Vice President  
Barclays



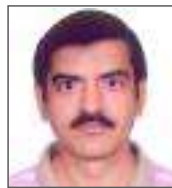
**Prashant Pansare**  
MD & CEO  
Inteliment



**Ashish Hastak**  
MD,  
Amazon Web Services



**Prof. (Dr.) P. Nagabhushan**  
Director Indian Institute of  
Information Technology,  
Allahabad, (U.P.) INDIA



**Dr. Umapada Pal**  
Professor and Head,  
Computer Vision and  
Pattern Recognition Unit  
Indian Statistical Institute  
(ISI), Kolkata



**Dr. Alex Hankey**  
Professor, Ph.D. from  
Massachusetts Inst. of  
Technology, US,  
BA, MA Cambridge University



**Dr. John Bryden**  
Research Professor at  
Norwegian Ag Economics  
Research Institute and  
Emeritus Professor,  
University of Aberdeen

### Faculty Profile



**Dr. Shubhalaxmi Joshi**  
Associate Dean,  
Faculty of Science



**Dr. C. H. Patil**  
HoS & Associate Professor,  
Computer Science



**Dr. Rajeshree Khande**  
Associate HoS,  
Program Head  
(B.Sc. CS)



**Dr. S. M. Mali**  
Professor  
Computer Science



**Dr. Anuradha Kanade**  
Assistant Professor  
Computer Science



**Dr. Barnali Goswami**  
Assistant Professor  
Computer Science



**Prof. Sachin Bhoite**  
Assistant Professor &  
Program Head (BCA)



**Prof. Jayant Patil**  
Assistant Professor  
Computer Science



**Prof. Sheetal Rajapurkar**  
Assistant Professor  
Electronics



**Prof. Nilesh Magar**  
Assistant Professor  
Computer Science



**Prof. Madhuri Pote**  
Assistant Professor,  
Electronics



**Prof. Deepali Sonawane**  
Assistant Professor  
Computer Science



**Prof. Varsha Sontakke**  
Assistant Professor  
Electronics



**Prof. Punam Nikam**  
Assistant Professor,  
Computer Science



**Dr. Amol Vibhute**  
Assistant Professor  
Computer Science

## Focus Areas

The focus area for the School of Computer Science is from Basic Technology to Advanced Technology. The school offers courses on emerging Technologies like Data Mining, Artificial Intelligence, Machine Learning, Deep Learning and Big Data Tools along with popular programming languages like Python, R and Scala. We have competent faculty members to teach these courses. We also invite industry experts for guest lectures, seminars and workshops to give insights into these emerging areas and discuss solutions on real-world problems with the students. Students are encouraged to participate in Hackathons and Research Paper Conferences and Symposiums to apply this knowledge effectively. Students can also gain additional credits and skills in terms of MOOC (Massive Open Online Courses). All the labs in the school are well equipped and upgraded in this respect.

- Industry Visits
- Guest Lectures
- Competitions / Hackathon
- Research Conferences

## Rural Immersion

Rural immersion programs are a part of MIT-WPU curriculum to sensitize the urban university students towards the rural community. The school of computer science students visit a village in their first year of course. Along with helping the villagers on the farm, the students spend some time in the rural schools teaching children about values and use of

technology. The interactions with the villagers help the students to understand their problems and provide technology solutions to help them increase their yield and be in a position to predict the future quality of the crop. In other words, the students can apply classroom learning directly to the real-time environment.



## Eminent Guest Faculty



### **Kaustubh Laturkar**

Sr. Director, Cognizant

Kaustubh Laturkar is a well-rounded leader in Data, AI & Analytics, Data Science with the ability to build Digital Business for clients globally. He has 20+ years of industry experience in areas like P&L, AI and Analytics and People and Stakeholder Management. He is associated with MIT World Peace University as a member of the Academic Council and Mentor for Hackathons. He has also delivered lectures on topics related to Artificial Intelligence.



### **Ram Prasad**

President, Xpanxion International

Mr. Ram Prasad is the President of Xpanxion, a UST global group. Xpanxion is an Industry Partner of MIT WPU. Mr. Ram Prasad is a regular advisor at Hackathons and other events at MIT. MIT interns working at Xpanxion find Ram Prasad Sir to be very supportive and encouraging in all the activities.



### **Prashant Pansare**

MD & CEO, Inteliment

Prashant Pansare is the Founder and a Global CEO of Inteliment Group, a niche and well-respected global Business Analytics company. He is one of the most inspiring data analytics innovators. He is regularly invited for Conferences and Seminars at MIT-WPU as a guest or keynote speaker. Many students who work at Inteliment as interns find his guidance very valuable.



### **Dr. Markand Oza**

Scientist, ISRO

Dr. Markand Oza is a Scientist at the Department of Space and ISRO Headquarters. He is also the principal investigator at Vedas Lab at ISRO. He has authored more than 45 research papers and has over 234 citations to his credit. He has done considerable research on predicting agricultural produce using satellite data and Resource Sat 1 data. Dr. Oza has visited MIT-WPU campus for giving a guest lecture on Using Data Analytics with ISRO data in the field of agriculture and social good. He also mentors PhD students at MIT-WPU.

## Corporate Speak



### **S Ramprasad**

Managing Director & CEO,  
Xpanxion International

We have been pleasantly surprised by the quality of students from our interactions. Judging by experience I am confident that it will not be the last. We found the students to be smart, articulate and conceptually clear and ended up hiring more



### **Prashant Pansare**

Managing Director,  
Inteliment Technologies.

MITFOS students demonstrate excellent skills, consulting and leadership skills, and we look forward to continuing our relationship with the school and its students.



### **Nitin Mulay**

Vice President, Barclay  
Technology Center.

We are very glad to corroborate the excellent caliber and aptness of MITFOS students. We've found them very disciplined, highly motivated and quick on the uptake. Their track record in our organization has also been outstanding. Best Wishes to MITFOS and its student community



### **Kaustubh Laturkar**

Senior Director, Cognizant, Pune.

MITFOS is an excellent School with state-of-the-art green campus and modern facilities, founded by Eminent Academician of national repute, having an active collaboration of IT companies in the world. The Institute has excellent faculty and adequate academic rigor. The students are poised, smart, and ready for challenges in the IT world. I am confident that they will do well in their careers.

## Student Achievements



Akashay Chaphekar, Presidential Medal, Gold Medalist, First Rank with 9.99CGPA, Batch 2019-20



Ashish Joshi, SYBSc(CS), NCC Cdt Participated in "National Integration Camp", He got 7 Corner Batch for his excellent work



Gaurav Suryavanshi, TYBSc(CS), Finalist to 100 and selected as Assistant System Engineer under Global Cybersecurity, HackQuest 5.0, organized TCS



Rutvik Shah, Vinay Deshmukh, Viraj Kulkarni, TYBSc Div-A, Best Research Paper - 2nd Prize National Level Students Conference, ICSITS 2020, School of Computer Science, MIT-WPU,Pune.



Navjyot Patil ,SYBSC Div-B, Ved Aralkar, SYBSC Div-A , Second Runner-up, Football competition, "Flame Kurukshetra 2020", FLAME University



Soham Shripad Gumaste, FYBSc(CS), Best Research Paper- 1st Prize, National Level Students Conference, ICSITS 2020, School of Computer Science, MIT-WPU,Pune.



Rutwik Shete, Prathmesh Babar SYBSC Div-B, Best Research Paper - 3rd Prize, National Level Students Conference, ICSITS 2020, School of Computer Science, MIT-WPU,Pune.

## Internships and Placements - BSc (CS) and BCA



Ankita Jadhav  
**Deloitte**



Harshada Kadam  
**Infosys**



Vaibhav Dongale  
**Deloitte**



Vinayak Dange  
**Cognizant**



prabhakar maity  
**Techverito**



Ritika Chaudhari\_  
**Cognizant**



Athira Panicker  
**Deloitte**



Aarohi Gokhale  
**Deloitte**



Sanskruti Joshi  
**Cognizant**



Ruturaj Chaubey  
**Infosys**

Excellence & Innovation Built into Learning

 **Life @ Campus**



**Tell me and I forget**



**Involve me and I learn**



**Teach me and I remember**



## A unique initiative by MIT World Peace University



### Centre for Industry-Academia Partnerships

The objective of this initiative is to build a strong collaboration between university and industry partners. CIAP believes that the collaboration between industry and academia is fundamental in catalysing the innovation and growth in technology. While industry partners quite often focus on providing solutions that have greater impact on businesses, educational institutions focus on building new knowledge through research and imparting education to students which make them ready to serve those industry needs. CIAP as a

catalyst plays an important role in creating more and more opportunities and make student equip with the skills that are needed to be served.

The key functions like Industry Partnerships, Career Services, Internships and Alumni Engagement are forefront in serving the ongoing needs of our students and alumni. These functions not only engage the students in improving their skills through the structured assessments, training and grooming activities, they also help students gain the strength to get best of the job opportunities by collaborating world class employers.

## Corporate Relations & Placements 2018-21

### Enormous companies



## Corporate Relations & Placements

₹ **4.8**

lakhs p.a  
Highest Salary

₹ **3.6**

lakhs p.a  
Average Salary

**100+**

Average number  
of companies visited

## Eligibility Criteria

### Bsc Computer Science

- Maharashtra State (MS) Candidature
- Passed 10+2 / 12th / HSC Examination in science stream with Mathematics subject (OR) / Three Years Engineering Diploma Recognized by Government Competent Authority (OR) / Passed its equivalent examination with 50% Marks in aggregate (45% in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only).
- Other Than Maharashtra (OMS) Candidature
- Candidate should be an Indian Nationality./ Passed 10+2 / 12th / HSC Examination in science stream with Mathematics subject (OR) / Three Years Engineering Diploma Recognized by Government Competent Authority (OR) / Passed its equivalent examination with 50% Marks in aggregate.
- Foreign Nation / NRI / OCI / PIO, Children of Indian workers in the Gulf countries:
- Passed 10+2 / 12th / HSC Examination in science stream with Mathematics subject (OR) its equivalent examination in any stream with 50% marks in aggregate.

**Selection Process:** CBT + PI = (150 marks)

### Fee Structure: (per year)

Programme Fees	Rs.1,21,500
Development Fees	Rs.13,500
Total Fees	Rs.135,000

### BCA

- HSC / 12th Science with 50% of Marks (45% marks aggregate in case of candidate backward class categories and persons with disability belonging to Maharashtra state only)
- Candidate should be an Indian Nationality. / Passed 10+2 / 12th / HSC Examination in science stream (OR) / Three Years Engineering Diploma Recognized by Government Competent Authority (OR) / Passed its equivalent examination with 50% Marks in aggregate

Foreign Nation / NRI / OCI / PIO, Children of Indian workers in the Gulf countries:

- Passed 10+2 / 12th / HSC Examination in science stream (OR) its equivalent examination in any stream with 50% marks in aggregate.

**Selection Process:**

CBT + PI = (150 marks)

### Fee Structure: (per year)

Programme Fees	Rs.1,44,000
Development Fees	Rs.16,000
Total Fees	Rs.160,000

## Scholarship

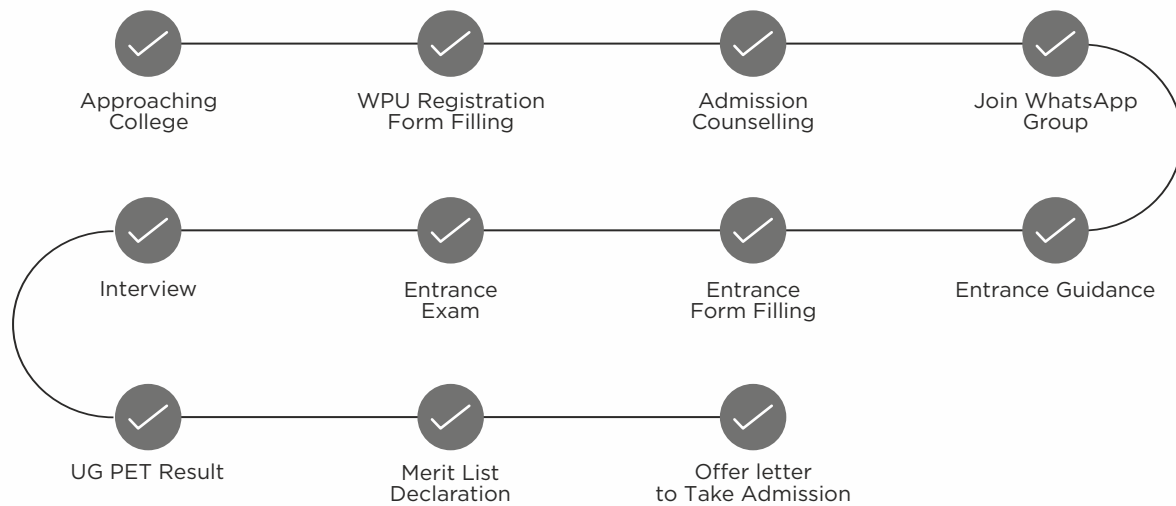
MIT World Peace University provides various scholarships to meritorious students. Up-to 100% of tuition fees waiver for meritorious students

- Dr. Vishwanath Karad Merit Scholarship.
- MIT -WPU Merit Scholarship:

- Scholarship to Rank Holders:
- Scholarships to Elite Sports person:
- Scholarship awarded to Wards of MIT WPU/ MAEER's Staff Members.
- Other Scholarships

**Please refer to the website for more details.**

## Admission process



SINCE 1983  
Dr. Vishwanath Karad  
**MIT WORLD PEACE UNIVERSITY** | PUNE  
TECHNOLOGY, RESEARCH, SOCIAL INNOVATION & PARTNERSHIPS



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