

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

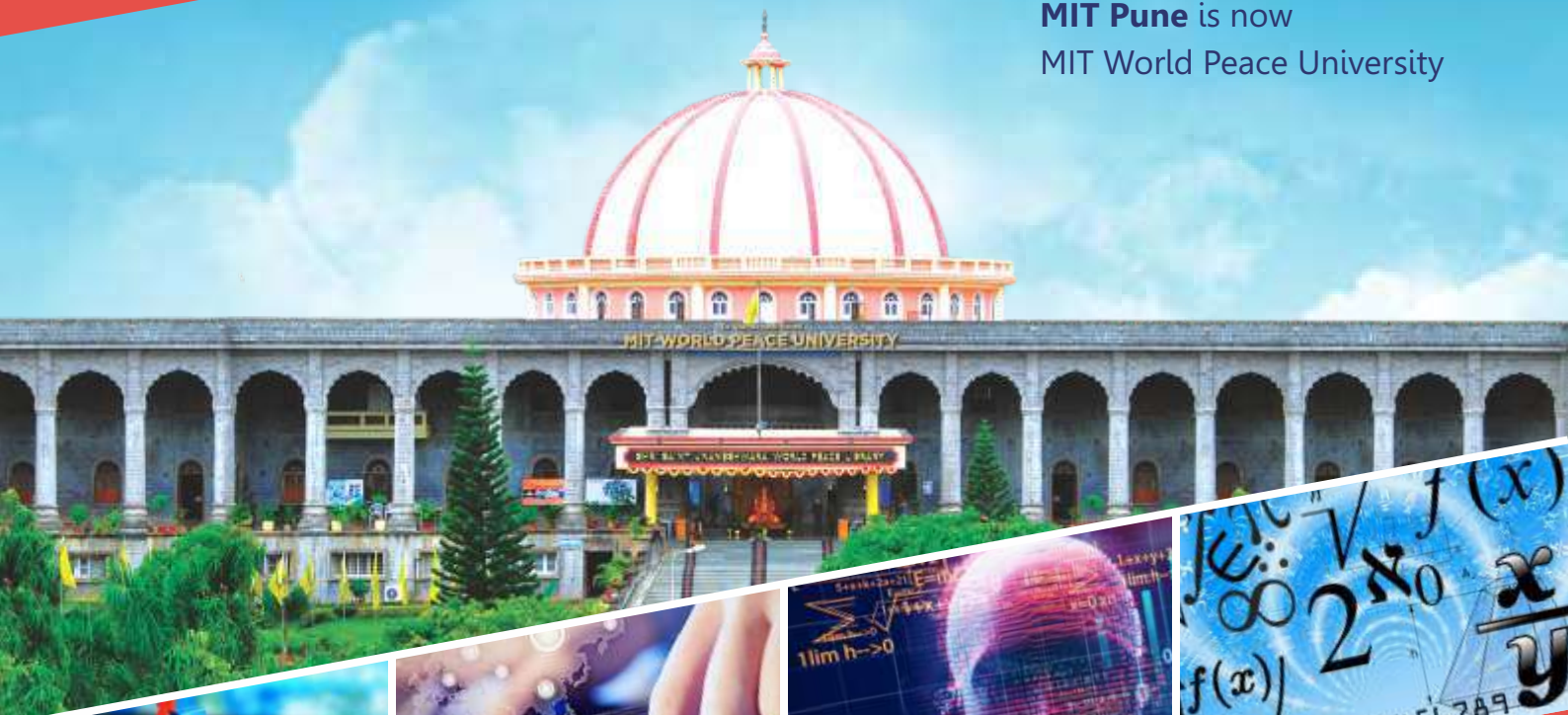


Faculty of Liberal Arts, Science & Commerce

School of Sciences

2018-19

MIT Pune is now
MIT World Peace University



World's First University
for Life Transformation

B.Sc. (Computer Science)
B.C.A.(Science)
M.Sc.(Computer Science)
M.C.A. (Science)

M.Sc.(Big Data Analytics)
M.Sc.(Mathematics)
M.Sc.(Statistics)

"Our Students should be Physically Fit, Mentally Alert, Intellectually Sharp and Spiritually Elevated."



Prof. (Dr.) Vishwanath D. Karad
Founder, MIT-WPU



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Executive President, MIT-WPU



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Chairman Advisory Board, MIT-WPU
Padma Vibhushan, Eminent Scientist,
President, Global Research Alliance



Dr. Vijay P. Bhatkar
Chairman Advisory Board, MIT-WPU
Padma Bhushan,
Educationist,
Eminent Computer Scientist

Advisory Board



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Eminent Nuclear Scientist &
Former Chairman, Atomic Energy
Commission of India



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Padma Shri, MP Rajya Sabha,
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Former Chairperson – Thermax Ltd.



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Principal Advisor, MIT-WPU
Reilly University Chair Professor from
Purdue University
Global Convener, National Teachers Congress



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Padma Shri,
Former Director, IIT Kanpur



Dr. D. P. Agarwal
Former Chairman, UPSC



Prof. Dr. Devi Singh
Vice-Chancellor, FLAME University
Former Director – IIM Lucknow



Prof. Dr. K. E. Seetha Ram
Founder Director, NUS - GAI,
Visiting Professor, The University of
Tokyo



Prof. Dr. V. G. Narayanan
Sr. Management Faculty,
Harvard Business School
Ph.D, Stanford University



Mr. Anand Sudarshan
Founder & Director of Sylvant
Advisors Pvt. Ltd.



Mrs. Rama Bijapurkar
Noted Management Author &
Consultant (PGDM, IIM A)



Prof. Dr. S. Parasuraman
Director,
The Tata Institute of Social Sciences



Mr. Nanik Rupani
Chairman, Neutron Electronic
Systems Pvt. Ltd.
Former President – Indian Merchants
Chamber



Mr. Shrinivas Raju
Founder & CEO
BluePal Solutions (Pvt) Ltd.



Prof. Dr. Raghunath K. Shevgaonkar
Professor,
Department of Electrical
Engineering, IIT, Bombay

MIT-WPU Leadership Team



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Vice Chancellor (Designate),
Ph.D. IIT Kanpur



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Pro Vice Chancellor,
Ph.D. University of Cambridge, UK



Prof. (Gp Capt) D. P. Apte
Registrar



Prof. Dr. Mrunal Raste
Provost



Prof. Dr. Sudhir Gavhane
Dean



Prof. Dr. Madhuri Kulkarni
Associate Dean



Prof. Dr. Mahesh Abale
M.Com., M.B.A., Ph.D.

Shaping the Graduates of Tomorrow

Dr. Vishwanath Karad MIT World Peace University is a State Private University. For centuries, India has been the apostle of knowledge and peace. MIT-WPU has been built on this philosophy. MIT-WPU is focused on being the change that is needed in the world today by sensitizing and understanding the human dimensions of conflict, and developing a toolbox of transferable skills such as negotiation, peace building, technology and management. These skills will enable graduates from various diverse programmes to succeed in peace building.

MIT-WPU is a Flagship University sponsored by MAEER's - MIT Group of Institutes, which has over 100,000 alumni all over the world. MIT-WPU Campus is spread over a sprawling 54 acres at Kothrud, Pune. MIT's journey in the last 34 years has been a continuous process in the pursuit of quality & excellence in education and research, commitment to values and discipline education. The state-of-art infrastructure, competent faculty, strong interaction with leading corporate professionals, student centric amenities and spectacular campuses, all provide a conducive environment for teaching. Learning, research, innovation and character building. MIT is the most preferred destination for over 54,000 students every year.

Our students are trained to bring about consolidated change for positive growth, development and social inclusion. MIT-WPU is an aspirational university for students searching for a world class education.



Decades of Educational Excellence



Ranked among Top 10 Private Institutes



Acclaimed Faculty in Academics Circle



Distinguished Alumni Base

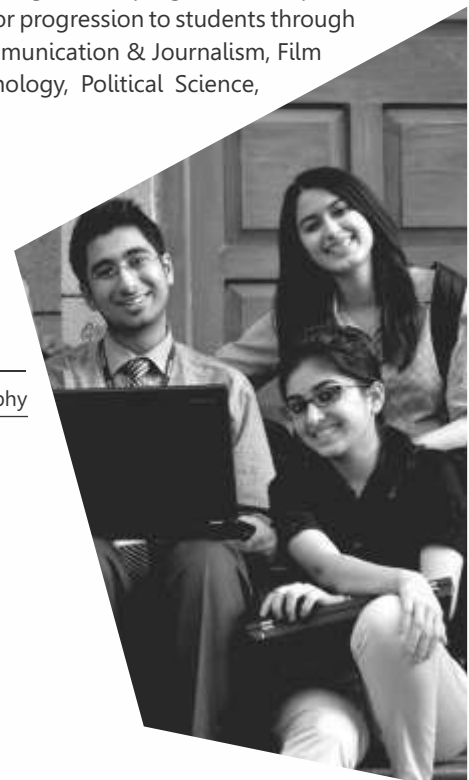


NAAC Accredited with 'A' Grade (In first cycle)

At MIT-WPU, we focus on developing versatile graduates as per industry requirements. Emphasis would be given on providing appropriate skills to meet the ever changing needs of society and allied industry at both national and international levels. The curriculum emphasizes on core arts, science & commerce subjects with an interdisciplinary approach. MIT-WPU programmes ensure an overall development of students through social internship, national and international certification programmes and study tours moulding them into winning personalities.

MIT Arts, Commerce & Science College was established in year 2004. Accredited with 'A' Grade by NAAC is now part of MIT World Peace University, provides education through 26 academic programmes. A spectrum of 14 under-graduate programmes, 8 post-graduate programmes, 3 diploma programmes and 1 certificate programme. We provide a path for progression to students through courses such as Commerce, E-Commerce, Computer Science, Mathematics, Statistics, Mass Communication & Journalism, Film studies & Production, Photography, Digital Communication & Marketing, Geography, Psychology, Political Science, Economics, English.

School of Sciences :	B.Sc. (Computer Science), B.C.A.(Science), M.Sc.(Computer Science), M.C.A. (Science),M.Sc.(Big Data Analytics), M.Sc.(Mathematics), M.Sc.(Statistics)
School of Liberal Arts:	B.A. Hons- English Economics Psychology Political Science Geography
School of Commerce:	B.Com. B.Com. E-Commerce M. Com.
School of Film Studies:	B.A. - Film Studies & Production
School of Media & Journalism:	B.A. - Mass Media M.A. International Journalism M.A. Digital Communication & Marketing
School of Photography:	B.A. - Photography Diploma in Photography
School of Performing & Fine Arts :	B.F.A. - Fine Arts Applied Arts B.P.A.- Music Dance Drama





School of Sciences

The School of Sciences imparts higher learning and research programs in the stream of Basic Sciences such as Mathematics and Statistics and Applied Sciences such as Computer Science and Applications.

Study and Research in Science where knowledge of basic sciences and application sciences are used for betterment of humanity. Science professional study and give solutions to the day to day problems in society. Their primary job function includes activities such as teaching, research, innovative design for development.

Now science professionals are required to cope up with rapid growth in Science, Technology and enhances challenges of future. Many live problems can be solved using interdisciplinary approach.

Our science faculty programmes emphasis on:

1. Benchmarking
2. Project Based Learning
3. Promotion of Scientific Ideas
4. Attitude building

5. Critical & Innovative Thinking
6. Building of Scientific Creative Temper

MIT-WPU offers under graduate programmes: B.Sc. Computer science, B.C.A., Post Graduate programmes : M.Sc. (Computer Science), M.C.A., M.Sc. (Maths), M.Sc.(Stats), M.Sc.(Big Data Analytics) and Research programme (Ph.D.)

During study under School of Sciences, the students are expected to spend more time in laboratories than classrooms. Curricula contains full time internship programme that students complete at various multinational companies. Post Graduate students are motivated to undergo for minor research projects and publications.

Teaching and Research are supported by state of the art infrastructure, qualified and highly competent teaching faculty members who provide students with hands on practical experiences. Major research areas of school are:

1. Mathematics
2. Statistics
3. Computer Science and Applications

Under Graduate Programmes

160 Intake **B.Sc.**
Computer Science

60 Intake **B.C.A.**
Science

Post Graduate Programmes

60 Intake **M.Sc.**
Computer Science

60 Intake **M.C.A.**
Science

40 Intake **M.Sc.**
Mathematics

60 Intake **M.Sc.**
Statistics

40 Intake **M.Sc.**
Big Data Analytics

Advisory Board-School of Sciences

Mr. Vijay Yadav	Director of Engineering, Imagine Learning Inc. Provo, Utah, USA	Dr. S. S. Pandey	Vice Chancellor, Vikram University, Ujjain
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Mr. Prashant Deshpande	System Analyst, Sure Tech services Inc. USA	Prof. Ravi S. Nanjundiah	Director, Indian Institute of Tropical Meteorology, Pashan, Pune

B.Sc. [Computer Science]

Intake : 160

Duration : 3 Years Full Time

Pattern : Trimester System

Eligibility

12th / (10+2) / H.S.C. (Science) with Mathematics subjects OR
Three Years Diploma conducted by Board of Technical Education,
Maharashtra after S.S.C. OR Passed its equivalent examination

Selection Criteria

UGPET, Personal Interview, Academic Credential

Date of Entrance Examination

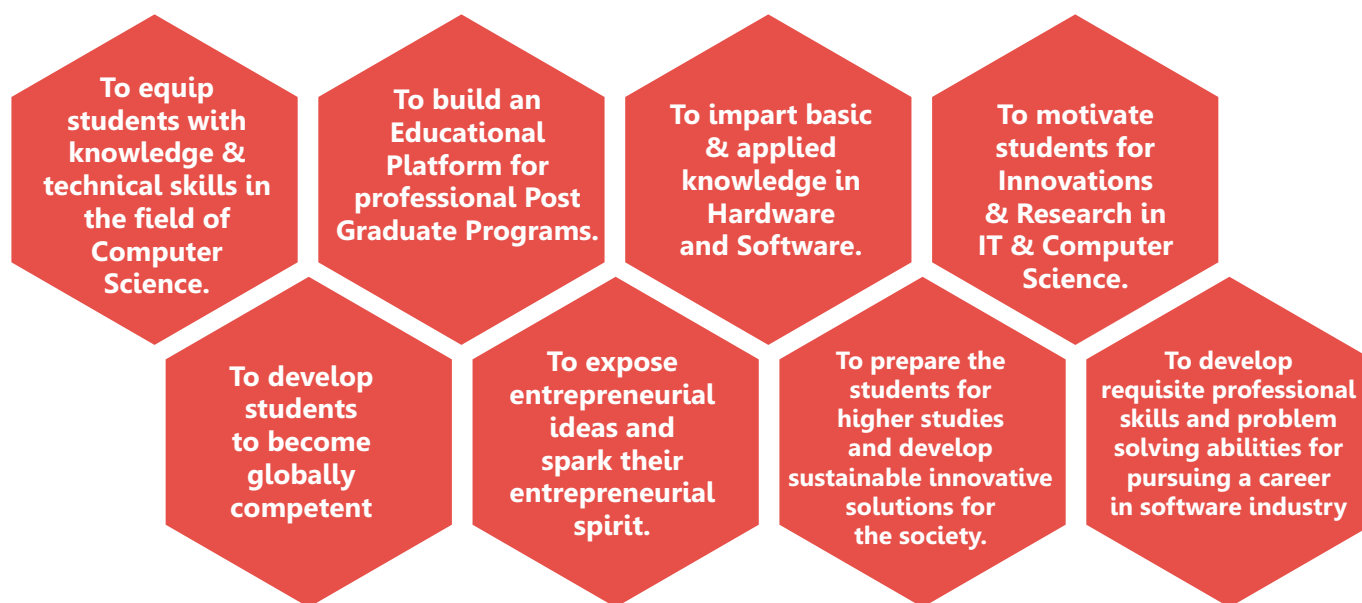
31st May 2018 : Pune

Entrance Exam Dates & Cities for All Under Graduate Courses (other than Pune)

23rd May 2018: Mumbai, Kolhapur, Aurangabad, Nagpur

27th May 2018: Bhopal, Indore, Ahmedabad, Rajkot, Raipur, Patna, Delhi, Jaipur, Kolkata, Lucknow

Objectives of the Programme



Programme Structure [First Year]

Trimester I		Trimester II		Trimester III	
Course	Credits	Course	Credits	Course	Credits
Introduction to Programming & Basic Programming using C	2	Modular Programming using C	2	Advanced Programming Using C	2
Fundamentals of Database	2	Relational Database Management System	2	System analysis and design	2
Fundamentals of Mathematics	2	Graph Theory	2	Number Theory & Calculus	2
Basic Statistics	2	Probability Theory	2	Correlation, Regression & Analysis	2
Principles of Analog Electronics	2	Principles of Digital Electronics	2	Advanced Digital Electronics	2
Lab course on Computer – I & II	2	Lab course on Computer – I & II	2	Lab course on Computer – I & II	2
Lab course on Statistics	2	Lab course on Statistics	2	Lab course on Statistics	2
Lab course on Electronics	2	Lab course on Electronics	2	Lab course on Electronics	2
Classical languages effective communication and human dynamics	2	Philosophy of Science and Spirituality	2		
Total Credits	18	Total Credits	18	Total Credits	16

B.C.A.[Science]

Intake : 60

Duration : 3 Years Full Time

Pattern : Trimester System

Eligibility

H.S.C. (10+2) from Science Stream with English as passing Subject with minimum 50% marks (45% for Reservation category) in aggregate. Three years Diploma of Board of Technical Education or its equivalent.

Selection Criteria

UGPET, Personal Interview, Academic Credential

Date of Entrance Examination

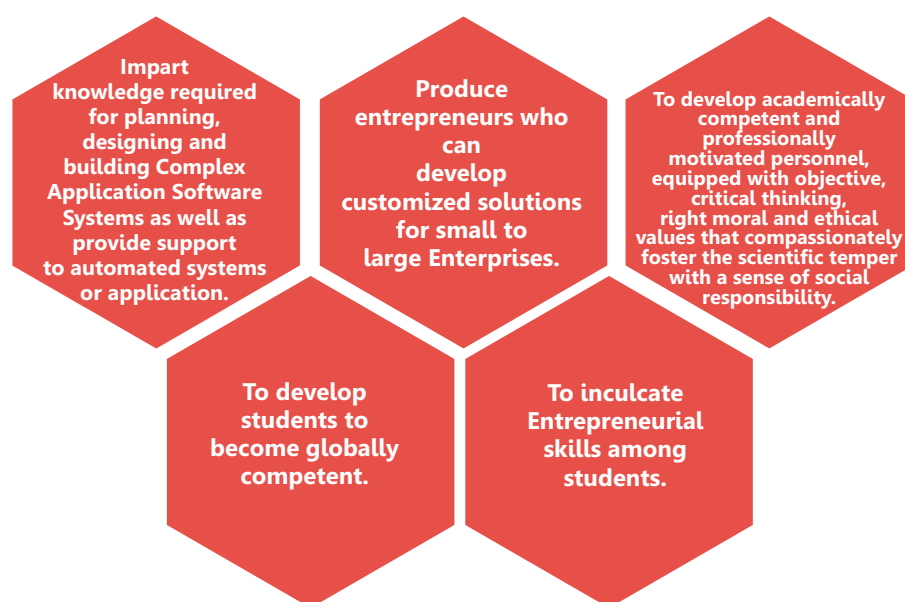
31st May 2018 : Pune

Entrance Exam Dates & Cities For All Under Graduate Courses (other than Pune)

23rd May 2018: Mumbai, Kolhapur, Aurangabad, Nagpur

27th May 2018: Bhopal, Indore, Ahmedabad, Rajkot, Raipur, Patna, Delhi, Jaipur, Kolkata, Lucknow

Objectives of the Programme



Programme Structure [First Year]

Trimester I			Trimester II			Trimester III		
No.	Course	Credits	No.	Course	Credits	No.	Course	Credits
1	Compulsory Courses							
101	Business Communication and Personality Development	03	201	Introduction to Logical Circuit & Digital Design	03	301	Data Structures using C	03
102	Fundamentals of Computer	03	202	Fundamentals of Statistics	03	302	Computer Organization & Microprocessor	03
103	Programming in C	03	203	Advanced C	03	303	Calculus & matrices	03
104	Business Mathematics	03	204	Applied Mathematics	03	304	Database Management System	03
2	World Peace Course							
PC1	Classical Languages and Human Dynamics	02	PC2	Humanities, Ethical and Moral Sciences	02	PC3	World Famous Philosophers, Sages, Saints and Scientists	02
Total Credits		14	Total Credits		14	Total Credits		14

M.Sc. [Computer Science]

Intake : 60

Duration : 2 Years Full Time

Pattern : Trimester System

Eligibility

B.Sc.(C.S.), B.C.S., B.Sc.(I.T.), B.E.-I.T., Comp., E&TC with 50% of Marks (45% marks aggregate in case of candidate backward class categories and persons with disability belonging to Maharashtra state only)

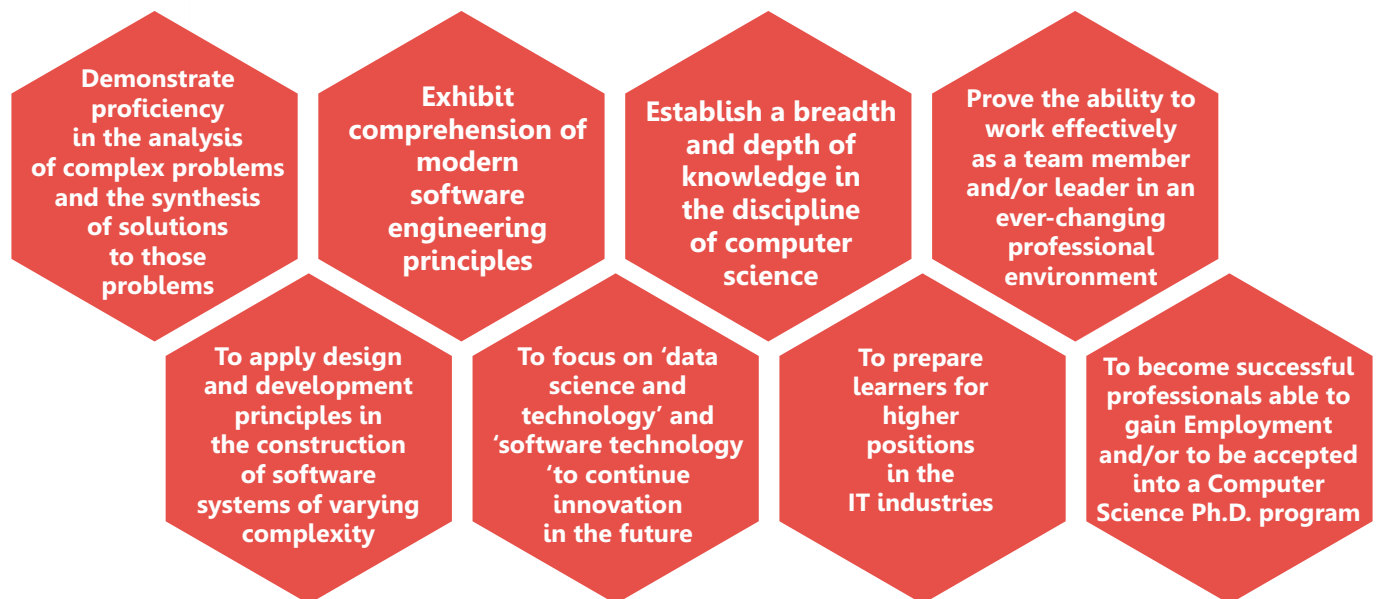
Selection Criteria

PGPET, Personal Interview, Academic Credential

Date of Entrance Examination

29th May 2018 : Pune

Objectives of the Programme



Programme Structure [First Year]

Trimester I		Trimester II		Trimester III	
Course	Credits	Course	Credits	Course	Credits
Automata Theory and Computability	3	Design and Analysis of Algorithms	3	Windows Programming & VC++	3
Advanced Operating Systems	3	Advanced Java Programming	3	Dot Net	3
Advanced C++	3	"R" Programming	3	Artificial intelligence	3
Network Security	3	Advanced Networking Concepts	3	Software Project Management	3
Lab on Advanced Operating Systems	3	Lab on Advanced Java Programming	3	Lab on VC++	3
Lab on C++	3	Lab on Advanced Network Programming	3	Lab on Dot Net	3
Philosophy of Science and Spirituality	2	Humanities, Ethical, Moral and Social Sciences	2	Creativity and Innovation	2
Total Credits	20	Total Credits	20	Total Credits	20

M.Sc. [Big Data Analytics]

Intake : 40

Duration : 2 Years Full Time

Pattern : Trimester System

Eligibility

B.Sc.(C.S.), B.C.S., B.Sc.(I.T.), B.E.-I.T., Comp., E&TC, B.C.A. with 50% of Marks (45% marks aggregate in case of candidate backward class categories and persons with disability belonging to Maharashtra state only)

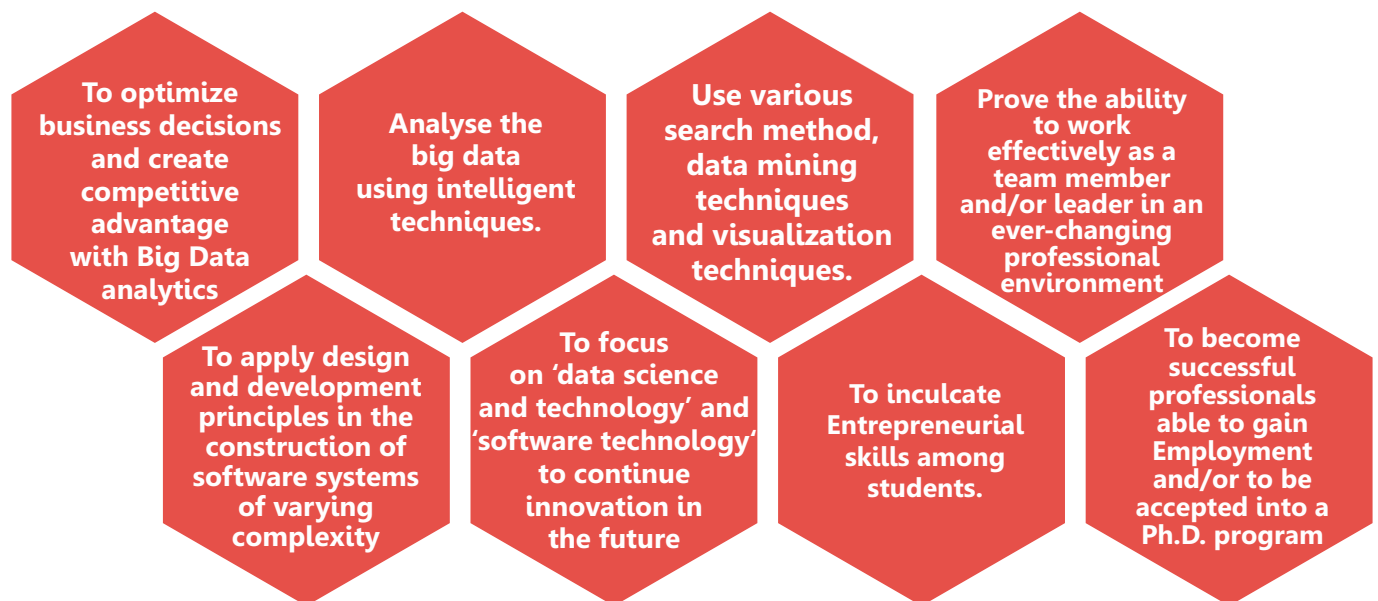
Selection Criteria

PGPET, Personal Interview, Academic Credential

Date of Entrance Examination

05th June 2018 : Pune

Objectives of the Programme



Programme Structure [First Year]

Trimester- I		Trimester- II		Trimester- III	
Title of the Paper	Credit	Title of the Paper	Credit	Title of the Paper	Credit
Data Warehousing & Data Mining	3	R Programming	3	Statistical Computing	3
Parallel and Disturbed Computing	3	Disturbed Processing of Data using Hadoop	3	Information Security	3
Big Data Architecture & Ecosystem- Hadoop	3	Operation Research	3	Apache Spark	3
Python Programming	3	Next Generation Databases	3	Machine Learning Algorithm- I	3
Lab on Python	3	Lab on R Programming	3	Lab on Statistical Computing	3
Lab on Hadoop using HDFS	3	Lab on Hadoop and Tools	3	Lab on Machine Learning Algorithm-I	3
Philosophy of Science & Spirituality	2	Humanities, Ethical, Moral and Social Sciences	2	Creativity and Innovation	2
Total Credits	20	Total Credits	20	Total Credits	20

Reach Us: Programme Head : Prof. Pradnya Mahadik | 7798888495 | Email : pradnya.mahadik@mitwpu.edu.in
Programme Head : Prof. Sachin Bhoite | 9923202707 | Email : sachin.bhoite@macscollege.edu.in

M.C.A. [Science]

Intake : 60

Duration : 3 Years Full Time

Pattern : Trimester System

Eligibility

Candidate should be a Science graduate OR B.C.A. graduate from any statutory university with a minimum of 50% marks (45% for reserve categories) AND Candidate must have passed mathematics/Business Mathematics & Statistics paper for 10+2 or graduation Level

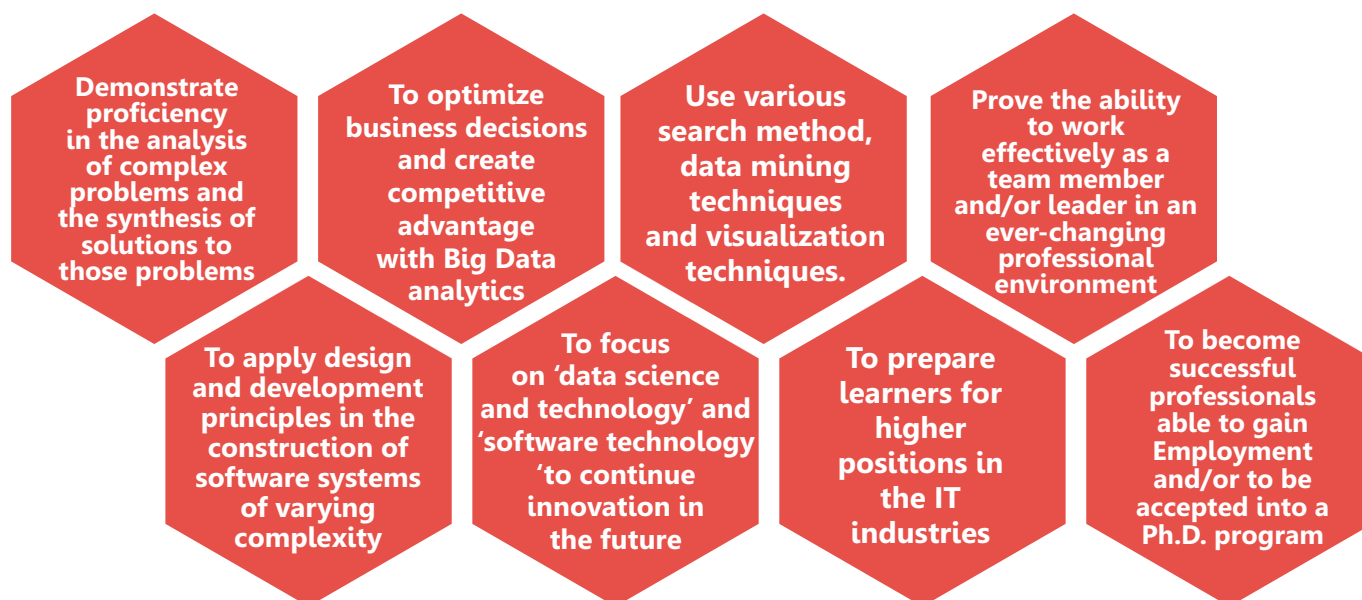
Selection Criteria

PGPET, Personal Interview, Academic Credential

Date of Entrance Examination

29th May 2018 : Pune

Objectives of the Programme



Programme Structure [First Year]

Trimester I		Trimester II		Trimester III	
Course	Credits	Course	Credits	Course	Credits
Fundamental of Computer Science	3	Operating System Concepts	3	Data Structures using C++	3
C programming	3	Object Oriented Programming using C++	3	Communication and Networking Concepts	3
Database management system	3	Theory of Computer Science	3	Advance Java Programming	3
Introduction to Graph Theory and Mathematical Foundation	3	Core Java	3	Business Communication	3
Lab on C Programming	3	Lab on C++	3	Laboratory on Data structures	3
Lab on DBMS	3	Lab on Java	3	Laboratory on Advance Java Programming	3
Philosophy of Science and Spirituality	2	Humanities, Ethical, Moral and Social Sciences	2	Creativity and Innovation	2
Total Credits	20	Total Credits	20	Total Credits	20

Reach Us: Programme Head : Dr. C.H. Patil | 9881204044 | Email : chpatil.mca@gmail.com

M.Sc. [Statistics]

Intake : 60

Duration : 2 Years Full Time

Pattern : Trimester System

Eligibility

B.Sc. with Statistics as a compulsory subject with minimum 50% marks (45% marks aggregate in case of candidate backward class categories and persons with disability belonging to MH state only)

Selection Criteria

PGPET, Personal Interview, Academic Credential

Date of Entrance Examination

05th June 2018 : Pune

Objectives of the Programme

To apply mathematical models and methods to study various problems that arise in industry and business, with an emphasis on developing computable solutions that can be implemented.

To train the manpower required to deal with the problems faced by software industry through knowledge of Mathematics and scientific computational techniques.

To prepare learners for higher positions in the IT industries.

Programme Structure [First Year]

Trimester I		Trimester II		Trimester III	
Course	Credits	Course	Credits	Course	Credits
Linear Algebra	3	Statistical Inference	3	Asymptotic Inference	3
Real Analysis	3	Probability Theory	3	Operations Research	3
Distribution Theory - I	3	Testing of Hypotheses	3	Stochastic processes	3
Sampling Theory - I	3	Multivariate Analysis	3	Elements of Statistical Computing	3
Lab on Linear Algebra	3	Lab course I	3	Lab course I	3
Lab sampling theory	3	Lab course II	3	Lab course II	3
Philosophy of Science and Spirituality	2	Humanities, Ethical, Moral and Social Sciences	2	Lab course III Python	2
Total Credits	20	Total Credits	20	Total Credits	20

M.Sc. [Mathematics]

Intake : 40

Duration : 2 Years Full Time

Pattern : Trimester System

Eligibility

B.A./B.Sc.(Mathematics), B.Sc.(C.S.), B.Sc.(Statistics) with Mathematics as a compulsory subject up to second year OR B.E./B.Tech. from any stream. B.Sc. with 45% marks in aggregate and statistics as a main subject.

Selection Criteria

PGPET, Personal Interview, Academic Credential

Date of Entrance Examination

05th June 2018 : Pune

Objectives of the Programme

To apply mathematical models and methods to study various problems that arise in industry and business, with an emphasis on developing computational techniques and that can be implemented.

To train the manpower required to deal with the problems faced by R&D, industry through knowledge of Mathematics and scientific computational techniques.

To prepare learners for higher positions in the IT industries.

Programme Structure [First Year]

Trimester I		Trimester II		Trimester III	
Course	Credits	Course	Credits	Course	Credits
Topology	3	Ring Theory	3	Field Theory	3
Group Theory	3	Number Theory	3	Real Analysis	3
Hydrodynamics	3	Multivariate Calculus	3	Functional Analysis	3
Operations Research	3	Linear Algebra	3	Partial Differential Equations	3
Ordinary Differential Equation	3	Complex Analysis	3	Fuzzy Sets & its applications	3
Problem Course / Group Discussion	3	Problem Course /Group Discussion	3	Problem Course / Seminars	3
Philosophy of Science and Spirituality	2	Humanities, Ethical, Moral and Social Sciences	2	Creativity and Innovation	2
Total Credits	20	Total Credits	20	Total Credits	20

WPU Method



Academic Credit System (ACS):

Flexible Credit System allowing students to customize their education after firm foundation, by opting for an appropriate track.



Continuously Updated Education (CUEd™):

Continuously Updated Education is a way of ensuring effective learning @ MIT-WPU. The CUEd System expedites adapting the latest development in each subject into the real time learning-teaching



Faculty:

Nationally and internationally acclaimed faculty and research scholars



Digital Learning Technology:

Transforms teaching and learning for improved understanding, retention and application



Research Collaborations:

Alignment with the premier national and international research organization across sectors - private, public & NGOs



Social Missions:

Inculcate Social Responsibility in students by activities oriented around the United Nations' 17 Sustainable Development Goals



Sports Culture for Peace:

Talent search and nurturing sports spirit while providing opportunities through sports facilities to all the students, encouraging them to participate at National & International Sports



National Study Programme:

It offers the students a chance to explore the national markets and identify implementation gaps or business opportunities, which can help fill these gaps



Alumni Involvement:

Handholding, Scholarship* Support and Experience sharing by alumni through mentoring and providing networking opportunities



Team Teaching by Faculty:

50% of the Classroom Sessions will be engaged by two or more faculty members jointly for effective learning



Industrial Collaboration for Internships:

Partnerships with over 1200 organizations across sectors to promote internships for 6 - 12 months and final placement



Fostering Entrepreneurship:

A culture that promotes and inculcates entrepreneurial thinking in students, backed by research labs and incubation centre



Peace Programmes for Holistic Development:

Shaping winning personalities of students through focus on Human Skills for personal as well as spiritual development resulting in social inclusion and social innovation



Rural Immersion Programme:

Sensitizing students about community in rural area and devise solutions to problems faced by them



International Credit Programmes (up to 4 -5 weeks)*:

A variety of Global Programmes across all continents*



Life @ MIT - Beyond Classroom:

Exceptional avenues made available to students for engagement and for showcasing their talent through plethora of extra and co-curricular activities

Career Opportunities After Science and Technology

1. Software Developer/ Programmer
2. Associate Analyst/ System Analyst
3. Change Management & Operations Intern
4. Application Development Associate
5. Hardware Engineer
6. Trouble-shooter
7. Web Designer and Developer
8. Data analysts
9. Analytics Managers/ Analytics Programmers
10. Big Data Engineer



UNESCO Chair for Human Right,
Democracy, Peace & Tolerance

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