Since 1983

MIT-WPU
॥ विश्वशान्तिर्ध्रुवं ध्रुवा ॥

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

M.Sc. (Applied Statistics)

Programme Structure

mitwpu.edu.in

Division	Faculty of Science & Health Science
School Name	School of Science & Environmental Studies
Department Name	Department of Mathematics and Statistics
Programme Name	M.Sc. (Applied Statistics)

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Course Type	Description
Programme Core	Courses dealing with foundations, depth and breadth of the major in which a student is admitted at MIT-WPU
Programme Electives	Open electives under the Programme allow students to specialise in a particular area connected to their major.
University Core	Courses that reflect the core MITWPU values and the mission of Life Transformation of students.
University Electives	Multidisciplinary courses across the faculties at MIT-WPU and outside the Programme core.

M.Sc. (Applied Statistics) (First Year) (Batch 2026-28)
Semester – I

Sr. No	Name of the Course	Type	Credits
1	Linear Algebra	PF	3
2	Distribution Theory	PF	3
3	R Programming +SQL	PM	2
4	Research Methodology	PM	4
5	Statistical Inference	PM	3
7	Program Elective -01	PE	4
8	Scientific Studies of Mind, Matter, Spirit and Consciousness	UC	2
9	Yoga	UC	1
	Total:		**25**

	Track 1	Track 2	Track 3
Elective Basket	Data Science	Biostatistics	Financial Statistics
Name of the course	Data Base Management System(DBMS)	Statistical Methods in Epidemiology	Financial Mathematics

M.Sc. (Applied Statistics) (First Year) (Batch 2026-28)
Semester – II

Sr. No	Name of the Course	Type	Credits
1	Applied Multivariate Analysis	PM	4
2	Multivariate and Regression Lab	PM	1
3	ML Lab	PM	1
4	Regression Analysis	PM	3
5	Statistical Computing	PM	3
6	Applied Stochastic Process	PM	3
7	Program Elective - 02	PE	4
8	Peace- II	UC	2
9	Democracy, Leadership and Governance Program(DLGP)	UC	1
	Total		22

	Track 1	Track 2	Track 3
Elective Basket	Data Science	Biostatistics	Financial Statistics
Name of the course	ML	Statistical Methods in Genetics	Econometrics

M.Sc. (Applied Statistics) (First Year) (Batch 2026-28)
Semester – III

Sr. No	Name of the Course	Type	Credits
1	Longitudinal Data Analysis	PM	4
2	Optimization Techniques	PM	4
3	Lab on Time Series analysis and Project	PM	2
4	Time Series Analysis	PM	4
5	Program Elective - 03	PE	4
6	On job Training(OJT)/Internship/Project	PR	4
	Total:		**22**

	Track 1	Track 2	Track 3
Elective Basket	Data Science	Biostatistics	Financial Statistics
Name of the course	Deep Learning	Clinical Trials	Actuarial Sciences

M.Sc. (Applied Statistics) (First Year) (Batch 2026-28)
Semester – IV

Sr. No	Name of the Course	Type	Credits
1	Program Elective-04	PM	4
2	Sampling Theory	PM	2
3	Project / Industrial Internship	PR	16
	Total:		**22**

	Track 1	Track 2	Track 3
Elective Basket	Data Science	Biostatistics	Financial Statistics
Name of the course	Explanatory Analysis	Demography	Statistical Methods for Risk Modeling

*Modifications to the programmes and courses are contingent upon adherence to university guidelines and procedures. Any proposed changes must undergo a thorough review process, including consultation with relevant academic departments, approval from the appropriate administrative bodies, and compliance with accreditation standards.

Additionally, consideration will be given to feedback from students, faculty, and other stakeholders to ensure that modifications align with the overall educational objectives and mission of the university. The implementation of any approved changes will be communicated transparently to the university community, and appropriate measures will be taken to facilitate a smooth transition for all affected parties.