



## Internal Quality Assurance Cell, UoA

### Notification

Date:

#### List of Approved Value-Added Courses (VAC) for Online Mode

This is to inform all students and concerned departments that the University of Allahabad, through the Internal Quality Assurance Cell (IQAC), has finalized the list of approved Value-Added Courses (VAC) for the academic session 2023-24. These courses aim to provide additional skill-based learning opportunities and enhance the overall educational experience of our students. Student can opt course from any discipline as per their choice and interest.

The approved online courses include those offered on recognized platforms such as **NPTEL**, **SWAYAM**, and other reputed organizations. After consultation with the respective departments, the following courses have been acknowledged as in-house Value-Added Courses for this session:

#### Approved Value-Added Courses (VAC):

Discipline	Course Name	Co-ordinating Institute	Duration
Agricultural and Food Engineering	Food Science and Technology	IIT Kharagpur	12 Weeks
Agricultural and Food Engineering	Impact of Flow of Fluids in Food Processing and Preservation	IIT Kharagpur	12 Weeks
Agriculture Engineering	Machine Learning for Soil and Crop Management	IIT Kharagpur	12 Weeks
Biotechnology/Life Sciences	Advanced Fluorescence Microscopy and Image Processing	IIT Madras	12 Weeks
Biotechnology and Bioengineering	Basics of Biology	IIT Guwahati	12 Weeks
Biotechnology and Bioengineering	Biochemistry - IITM	IIT Madras	12 Weeks
Biotechnology and Bioengineering	Bioelectrochemistry	IIT Kanpur	4 Weeks



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Biotechnology and Bioengineering	Computational Genomics	IIT Madras	12 Weeks
Biotechnology and Bioengineering	Computational Systems Biology	IIT Madras	12 Weeks
Biotechnology and Bioengineering	Maternal Infant Young Child Nutrition (Hindi)	IIT Bombay	12 Weeks
Centre of Food Technology	Dairy and Food Process and Products Technology	IIT Kharagpur	4 Weeks
Centre of Material Sciences	Solar Photovoltaics Fundamental, Technology and Applications	IIT Roorkee	8 Weeks
Centre of Material Sciences	Techniques of Materials Characterization	IIT Kharagpur	12 Weeks
Centre of Food Technology	Dairy and Food Process and Products Technology	IIT Kharagpur	12 Weeks
Centre of Material Sciences	Techniques of Materials Characterization	IIT Kharagpur	12 Weeks
Environmental Science	Climate Change Science	IISc Bangalore	12 Weeks
Environmental Science	Environmental Geosciences	IIT Kharagpur	12 Weeks
Earth Sciences/Civil Engineering	Natural Hazards (Hindi)	IIT Kanpur	12 Weeks
Earth Sciences	Laboratory Practices in Earth Sciences: Landscape Mapping	IIT Kanpur	8 Weeks
Geophysics	Mathematical Geophysics	IIT Kharagpur	8 weeks
Chemistry, Material Science. Biology	Computational Quantum Chemistry	IIT Bombay	12 Weeks
Chemical Engineering	Computer Aided Applied Single Objective Optimization	IIT Guwahati	12 Weeks
Chemistry	Advanced Chemical Thermodynamics and Kinetics	IIT Madras	12 Weeks
Chemistry	Advanced Transition Metal Organometallic Chemistry	IIT Bombay	12 Weeks
Chemistry	Basic thermodynamics: Classical and Statistical Approaches	IIT Madras	12 Weeks
Chemistry	Biochemistry	IIT Kharagpur	12 Weeks
Chemistry	Bioinorganic Chemistry	IIT Kanpur	4 Weeks
Chemistry	Chemical Applications of Symmetry and Group Theory	IIT Kanpur	8 Weeks
Chemistry	Chemistry Of Main Group Elements	IIT Bombay	12 Weeks
Chemistry	Co-Ordination Chemistry (Chemistry of Transition Elements)	IIT Kharagpur	12 Weeks
Chemistry	Elementary Electrochemistry	IIT Madras	8 Weeks
Design Engineering	Understanding Ethnography	IIT Bombay	8 Weeks
Design Engineering	Understanding Incubation and Entrepreneurship	IIT Bombay	12 Weeks
Design Engineering	Usability Engineering	IIT Guwahati	12 Weeks



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Economic Sciences	Foundations of Accounting & Finance	IIT Madras	12 Weeks
Economic Sciences	Health Economics	IIT Roorkee	12 Weeks
Economic Sciences	Indian Economy: Some Contemporary Perspectives	IIT Kanpur	8 Weeks
Economic Sciences	Introduction to Econometrics	IIT Madras	12 Weeks
Electrical and Electronics Engineering	Analog Electronic Circuits - IITM	IIT Madras	12 Weeks
Electrical and Electronics Engineering	Analog IC Design	IIT Madras	12 Weeks
Electrical and Electronics Engineering	Applied Linear Algebra	IIT Bombay	12 weeks
Electrical and Electronics Engineering	Basics of Semiconductor Microwave Devices	IISc Bangalore	12 Weeks
Electrical and Electronics Engineering	Biomedical Signal Processing	IIT Kharagpur	12 Weeks
Electrical and Electronics Engineering	Circuit Analysis for Analog Designers	IIT Madras	12 Weeks
Electrical and Electronics Engineering	CMOS Digital VLSI Design	IIT Roorkee	8 Weeks
Electrical and Electronics Engineering	Communication Networks	IIT Kharagpur	12 Weeks
Electrical and Electronics Engineering	Computer Vision and Image Processing - Fundamentals and Applications	IIT Guwahati	12 Weeks
Electrical and Electronics Engineering	Digital Electronic Circuits	IIT Kharagpur	12 Weeks
Electrical and Electronics Engineering	Power Quality	IIT Delhi	12 Weeks
Multidisciplinary	Introduction to Reliability Engineering	IIT Kharagpur	8 Weeks
Multidisciplinary	Management of Medical Emergencies in Dental Practice	IIT Madras	8 Weeks
Multidisciplinary	Nanobio Technology Enabled Point-of-Care Devices	IIT Kharagpur	8 Weeks
Humanities and Social Sciences	Contextualizing Gender	IIT Roorkee	12 Weeks
Humanities and Social Science	Development of Sociology in India	IIT Kanpur	4 Weeks
Humanities and Social Sciences	Economic Growth And Development	IIT Guwahati	8 Weeks
Humanities and Social Science	Education for Sustainable Development	IIT Kharagpur	12 Weeks
Law	Advanced Contracts, Tendering and Public Procurement	IIT Madras	12 Weeks
Law	Constitution Law and Public Administration in India	IIT Madras	12 Weeks



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Law	IP Management & Technology Transfer	IIT Kharagpur	8 Weeks
Law	Centre-State Relations in India	IIT Kharagpur	8 Weeks
Law	Directive Principles of State Policy and Fundamental Duties: Constitutional Imperative	IIT Kharagpur	8 Weeks
Mathematics	Advanced Computational Techniques	IIT Kharagpur	4 Weeks
Mathematics	Advanced Engineering Mathematics	IIT Kharagpur	12 Weeks
Mathematics	Advanced Linear Algebra	IIT Roorkee	12 Weeks
Mathematics	Advanced Probability Theory	IIT Delhi	12 Weeks
Mathematics	Algebra – II	IIT Madras	12 Weeks
Mathematics	Algebraic Combinatorics	IIT Madras	12 Weeks
Mathematics	Algebraic Number Theory	IISc Bangalore	12 Weeks
Mathematics	An Introduction to Hyperbolic Geometry	IIT Kanpur	12 Weeks
Mathematics	Essentials of Data Science With R Software-2: Sampling Theory and Linear Regression Analysis	IIT Kanpur	12 Weeks
Mathematics	First Course on Partial Differential Equations – I	IISc Bangalore	8 Weeks
Management	Advertising & Promotions Management	IIT Kharagpur	12 weeks
Management	AI in Human Resource Management	IIT Guwahati	12 Weeks
Management	AI in Marketing	IIT Roorkee	12 Weeks
Management	AI in Product Management	IIT Roorkee	12 Weeks
Physics	A Brief Course On Superconductivity	IIT Guwahati	4 Weeks
Physics	Advanced NMR Techniques in Solution and Solid-State	IISc Bangalore	12 Weeks
Physics	An Introduction to Lasers and Laser Systems	IIT Bombay	12 Weeks
Physics	Topology and Condensed Matter Physics	IIT Guwahati	8 Weeks
Centre of Behavioural and Cognitive Sciences	Introduction to Basic Cognitive Processes	IIT Kanpur	8 Weeks
Centre of Behavioural and Cognitive Sciences	Introduction to Advanced Cognitive Processes	IIT Kanpur	8 Weeks
Statistics	Six Sigma	IIT Kharagpur	12 weeks
Statistics	Photon of Data Science	IITM	8 Weeks
Bio-Chemistry	Metals in Biology	IITM	8 Weeks
Bioinformatics	Medical Biomaterial	IITM	8 Weeks
Statistics	Descriptive Statistics with R	IITM	8 Weeks



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Bioinformatics	Bioinformatics: Algorithms and Application	IITM	12 Weeks
Bio-Chemistry	Basic Course in Biomedical	ICMR	8 Weeks
Zoology	Demystifying the Brain	IITM	4 Weeks
Statistics	Business Analytics and Data Mining Modelling Using R	IIT Roorkee	12 Weeks
Bio-Technology	Cell Culture Technologies	IIT M	12 Weeks
Bio-Technology	Bioengineering: An interface with Biology and Medicine	IIT M	12 Weeks
Zoology	Wildlife Ecology	IIT Kanpur	8 Weeks
Mathematics	Algebra-I	IIT Kanpur	12 Weeks
Botany	Human Molecular Genetics	IIT Kanpur	4 Weeks
Commerce	Human Resource Development	IIT Kharagpur	12 weeks
Commerce	Advance in Strategic Human Resource Management	IIT M	12 Weeks
Environmental Science	National Hazards	IITK	8 Weeks
Aerospace Engineering	Advance Aircraft Maintains	IIT Kanpur	4 Weeks
Chemistry	Basic in Inorganic Chemistry	IIT Kanpur	4 Weeks
Psychology	Psychology of Everyday	IIT Kanpur	4 Weeks
English	Academic Writing	Central University Garhwal	4 Weeks
English	Enhancing Soft Skills and Personality		
English	Global Shakespeare's: Re-Creating the Merchant of Venice	IITM	4 Weeks
English	Shakespeare's Hamlet: The Ghost	IITK	8 Weeks

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