

University of Mumbai



University of Mumbai

Implementation of
**NATIONAL
EDUCATION
POLICY
2020**



REPORT

University of Mumbai



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Message

Prof. (Dr.) Ravindra Kulkarni
Vice-Chancellor, University of Mumbai



Looking at the journey of education in India, we can review National education policy 2020 as a precursor in the form of Kothari commission, NEP 1968, NEP 1986, Plan of Action 1992, NCF 2005 and RTE 2020.

All these policy documents and subsequent implementation of the same addressed various challenges faced by education sector in India. Different policies had different focal points like equality, access, inclusion of Maths and Science, integration of non-formal education, expansion of primary education, improving literacy, introduction of vocational education and introduction of common entrance examination for professional courses etc.

While all these policies did address various challenges faced by our nation in terms of various parameters. However, we could not be at the expected destination of outcome based education while the world was entering 21st century.

NEP 2020 in sharp contrast looks at the nature of knowledge itself. As defined in one of the shlok

आचार्यात् पादम् आधत्ते पादं शिष्यः स्वमेधया ।

पादं सब्रह्मचारिभ्यः पादं कालक्रमेण च ॥

A student gets a quarter (knowledge) from his teacher, a quarter by his own intelligence, a quarter from his fellow students and a quarter in due course of time through experience and self-exploration.

Knowledge is whole. In our tradition the emphasis is on discovery of knowledge by individual. In a way it's a self-discovery. Different disciplines of knowledge are different ways of looking at the whole. With passage of time, the different

disciplines move away from each other and at times develop into an independent body of knowledge. Extension of this further leads to specialisation and super specialisation. That way the umbilical cord with the whole which is essentially multidisciplinary in nature is lost. This also leads to fragmentation of knowledge i.e. WHOLE.

For the first time, after Independence, NEP 2020 has charted a path to make an approach to break this logjam of fragmentation of knowledge by providing a structure which joins all the pieces of this knowledge and turns it into a complete whole. This is planned to be achieved by providing multidisciplinary education through the national curriculum framework developed specially to address this fragmentation of knowledge.

India has been forecast to be one of the youngest countries in the world gearing towards knowledge based leadership. If this knowledge leadership also uses innovation, then the attainment of being knowledge superpower shall be within the striking distance our country.

University of Mumbai in its mission to provide free and conducive atmosphere for creative thinking and impart deep disciplinary knowledge with an interdisciplinary bandwidth to the learners in order to make them problem solvers, leaders and entrepreneurs and to assimilate and transmit the values of honesty, equality, human dignity, and inclusivity; is on the right track through NEP2020.

Message



Prin. (Dr.) Ajay Bhamare

Pro Vice-Chancellor and
Chairman, NEP Cell, University of Mumbai

I am delighted to present a report the NEP2020 Activities in University of Mumbai. National Education policy 2020 in its totality is a paradigm shift in arena of education aligning it with the ever-evolving needs of our society and the advancements in technology. The education over period of time has changed the delivery and processes. Technology is another dimension that has altered the ways of teaching learning. The rapid explosion of information has not necessarily translated in to meaningful knowledge due to lack of proper direction in the teaching – Learning process.

The primary objective of education should be holistic, over all development of the individual personality nurturing sensible, sensitive and socially responsible individuals who contribute to the society in its wellbeing and progress. The definitions of progress and development are more quantitative than qualitative; NEP 2020 will drive the quality aspect of the growth and development by satisfaction, happiness and empathy. National Education Policy 2020 is endeavouring to provide opportunities to young, aspiring minds for brighter prospects and careers. NEP2020 is harnessing the multiple dimensions of the mental faculties by providing the ingredients from diverse fields and inputs.

Our focus on quality education will ensure that our students are well-equipped with the necessary skills and knowledge to face the challenges of the future. NEP 2020 provides ample opportunities for young minds to explore diverse fields and acquire a multidimensional perspective

NEP2020 through its component such as Indian Knowledge System (IKS) will sensitize the minds of young students towards the treasury of Indian wisdom and rich heritage, instilling a sense of pride in our traditions and the pioneering work of our Rishis- scientist of that times.

At the University of Mumbai, we are committed to empowering education through innovation. We are constantly exploring new methods and pathways to enhance learning experiences. The creditization of acquired knowledge, multiple entry and exit options, and the flexibility to choose Major and Minor subjects are just a few examples of how we are widening the horizons for our students

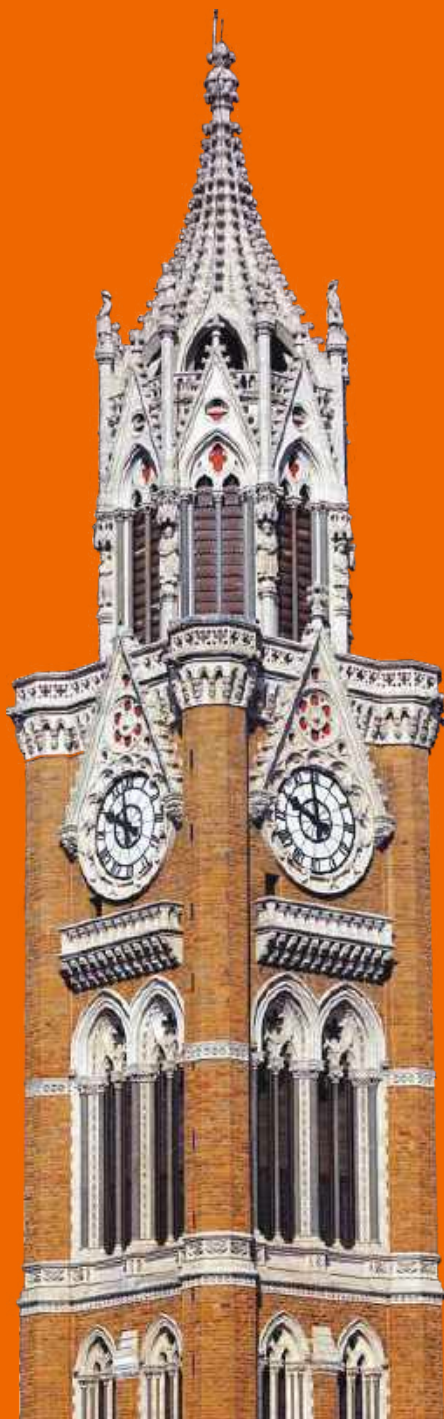
University of Mumbai in its endeavour of empowering education through Innovation-foresees the education and society as a unit that has aspirations and actualization for all, unveiling treasures of ancient India to young minds. Through NEP2020, we aspire to achieve the result as desired in the phrases like कृण्वन्तो विश्वमार्यम् and वसुधैव कुटुंबकम्

As we march ahead in this transformative journey, Let us continue to foster a vibrant and inclusive learning environment that nurtures curiosity, critical thinking, and a lifelong love for learning and actively participate in making NEP 2020 a resounding success

Together, we will create a future where our students shine as responsible global citizens, ready to lead and contribute meaningfully to society.

Preface

University of Mumbai



Today marks a momentous occasion in the history of Mumbai University as we embark on a transformative journey with the implementation of New Education Policy (NEP) 2020. The New National Education Policy (NEP) is a transformative and visionary roadmap for revolutionizing India's education system. Introduced in July 2020, the NEP is a comprehensive and forward-looking document that aims to address the evolving needs of learners in the 21st century while preserving the country's cultural and knowledge heritage.

The NEP2020 envisions a learner-centric approach, recognizing that each individual possesses unique talents and abilities that must be nurtured to their fullest potential. Multidisciplinarity and flexibility are key features of the NEP, encouraging students to explore a diverse range of subjects and develop a well-rounded understanding of the world. The policy seeks to break down traditional subject silos, fostering critical thinking, problem-solving, and adaptability in learners.

NEP2020 emphasizes continuous and comprehensive evaluation, moving away from rote memorization. Competency-based assessments are introduced to provide a holistic view of a student's progress, encouraging deeper understanding and fostering a growth mindset.

The Success of NEP 2020 lies in the hands of our dedicated and competent teachers through comprehensive teacher training and progressional development programmes. The initiatives will equip our teachers with modern pedagogical approaches, fostering students engagement and active learning in classroom. Furthermore, the NEP2020 recognizes the pivotal role of teachers in shaping the nation's future. It emphasizes the importance of teacher training and professional development, equipping educators with the necessary skills and knowledge to meet the evolving needs of learners effectively.

Inclusivity is a core aspect of the NEP, aiming to bridge the gender gap, promote education for minority communities, and provide special provisions for students with disabilities. The policy strives to ensure equal opportunities and support for all learners.

The NEP 2020 stresses the importance of vocational education and skill development to meet the demands of the job market. Mumbai University is dedicated to offering skill-based courses that equip our students with practical skills and make them job-ready.

NEP2020 will foster the collaborations with academia, industry to align our curriculum with the requirements of industries and provide internship opportunities for our students to gain real-world experience. By nurturing a skilled workforce, we contribute to the socio-economic development of our nation.

University of Mumbai in its endeavour commits itself for the implementation of NEP 2020 in letter and spirit.

Guidelines for Implementation of NEP 2020



National Education Policy 2020



National Credit Framework



National Higher Education Qualifications Framework



National Skills Qualifications Framework



Institutional Development Plan



Reports of the Committee for Four Years Multidisciplinary Undergraduate Degree Programme



Government Resolutions dated April 20, 2023, April 16, 2023 and July 4, 2023



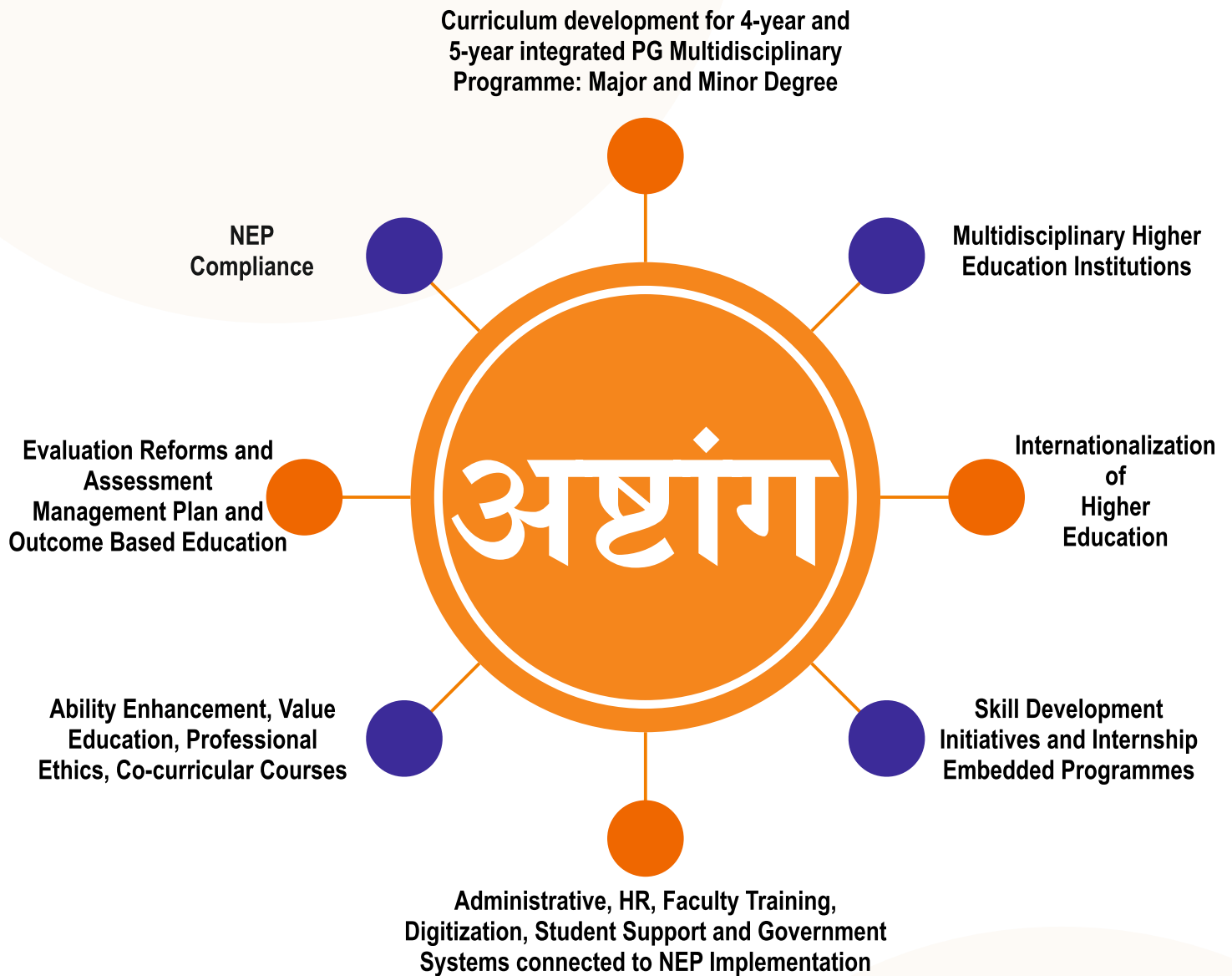
Government Letter dated June 16, 2023

NEP

2020



Eight Facets of NEP2020



Salient Features of Implementation of NEP 2020 in University of Mumbai

- Four Years Degree Programme with multiple entry and exit
- For Exit from Programme additional credits for UG Certificate and UD Diploma
- Admission Path for entry at different levels
- Three Years Degree and Four Years Degree Programme with Honours and Research
- Selection of Major and Minor Courses by the students at Undergraduate level
- Multidisciplinary approach for Programmes at Undergraduate level
- Minor course selected from different department / faculty / discipline
- Specialization at the Post Graduate Programmes
- Integrated Programmes such as UG+PG, PG+PhD
- Different approaches for Multidisciplinary Undergraduate Programmes: Department Specific, School Specific and Discipline / faculty specific
- Multi Faculty, Multidisciplinary Educational Institutions
- Vocational Skill and skill enhancement Courses
- Elective courses related to Major
- Collaborations among the colleges / institutions to achieve the multidisciplinary objective
- Multiple entry and multiple exits at every level of UG and PG programmes
- Allotting credits for the occupational learning
- For intermediate exit in UG programme, vocational skill credits requirement
- Ease of credit transfer through the Academic Bank of Credits
- Experiential learning boosted through various field projects, research projects, on job training, internships and apprentice opportunities
- Co-curricular and extra-curricular activities are under credit framework
- Coding of courses differentiated as per year of UG and PG programme
- Synchronization of credit structure with other Universities in the State for smooth vertical and horizontal movement of students
- Professional ethics, value education and life skills

NEP
2020

Sensitization Programmes for Stake Holders

Number of interactions of professors and teachers for development of the credit framework and curriculum structures for UG and PG Programmes



Interactions with Teachers

No. of Programmes: 06
No. of Participants: 3000



Sensitization Programmes for Stake Holders



Awareness Programmes for Students and Parents

No. of Programmes: 03
No. of Students: 800
No. of Parents: 150



Sensitization Programmes for Stake Holders

Training Programme
for Teachers of
University Academic
Departments



Meetings with NEP
Implementation Committee
Government of Maharashtra



Sensitization Programmes for Stake Holders



**Meetings of NEP
Implementation
Committee,
University of
Mumbai**

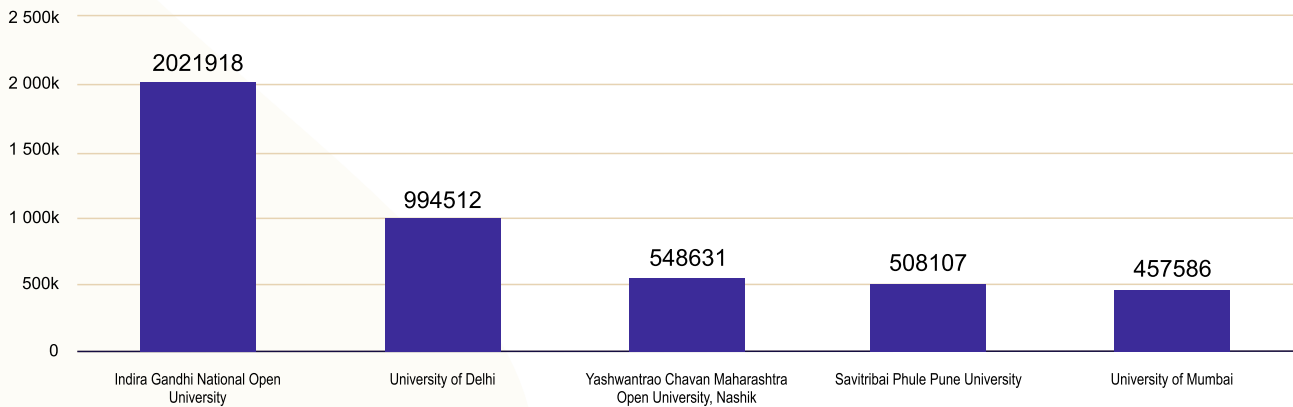


**Awareness
Programme
for Media
Representatives**

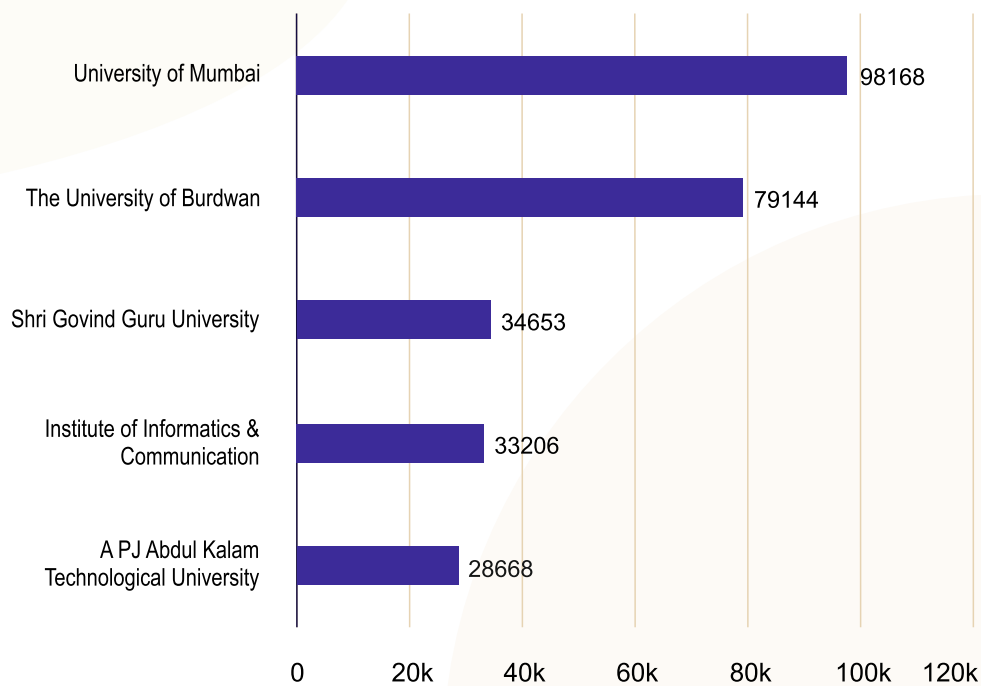
Tool to Transfer Credits: Academic Bank of Credit

Performance of University of Mumbai in Registration in Academic Bank of Credits:
University of Mumbai is among the **top 5** Universities in India with more number of students registered (around 4.5 lakhs) in July 2023

Top 5 active participants till date



Top 5 active participants last month



Credit Structures and Program Design

- One hour/week for Theory Course: 1 Credit
- One hour/week for Practicum Course: 1/2 Credit
- Credits per Semester: 22
- Credits for per Year: 44
- Total Credits for Multidisciplinary Three Years UG Programme: 132
- Total Credits for Multidisciplinary Four Years PG Degree Programme: 176
- Total Credits for One Year PG Programme: 44
- Total Credits for Two years PG Programme: 88

The Multidisciplinary UG Programme Design in 6 Verticals and their Range of Credits

- Major: Discipline specific courses, Electives: Minimum 50% of total Credits
- Minor: 18-20 Credits
- Open / Generic Electives: 10-12 Credits
- Vocational and Skill Enhancement Courses: 14-16 Credits
- Ability Enhancement Courses: 14 Credits
- Field Projects, Internship, Apprenticeship, Co-curricular Activity, Sports, Extension Activities: 12-14

Track Mode for Major electives in PG Programmes

- Outcome Based Education- As per Washington Accord
- Programme Educational Objectives
- Programme Objectives
- Course Objectives
- Course Outcomes

Skills

- Life skills
- Professional and Vocational skills
- Intellectual skills
- Interpersonal and Personal skills

Focus on

- Skill Based Learning
- Activity Based Learning
- Technology Based Learning
- Experiential Learning

Guiding Principles



- Major Courses: Core to the programme
- Minor from different discipline, department and faculty for multidisciplinary
- Open / Generic elective: Free choice to make from variety of courses
- Vocational, Skill Enhancement Courses: To enhance the skills related to Major Course
- Indian Knowledge System: Two Credit Course
- Courses like Yoga, Sports, NSS, NCC, Physical Education, Extension Activities
- Fine / Applied / Visual art
- Course on Introduction to Indian Constitution, IPR
- Languages for Ability Enhancement
- Foreign Language Courses
- Spoken Sanskrit
- Science Courses for everyday use
- Courses related to Career Counselling Skills, Computational Skills and Technology Skills



Credit Structure: Graduate Programme

Four Year Multidisciplinary Programmes in the Faculty of Arts, Science and Commerce

Level	Semester	Major		Minor	OE	VSC, SEC (VSEC)	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Cumulative Credit per Semester	Degree / Cumulative Credit
		Mandatory	Electives							
4.5	I	6	--	--	2+	VSC: 2 SEC: 2	AEC: 2 VEC: 2 IKS: 2	CC: 2	22	UG Certificate 44
	II	6	--	2	2+	VSC: 2 SEC: 2	AEC: 2 VEC: 2	CC: 2	22	
	Cumulative Credit	12	--	2	8	4+4	4+4+2	4	44	
Exit Option: Award of UG Certificate in Major with 40 -44 Credits and an Additional 4 Credits Core NSQF Course / Internship OR Continue with Major and Minor										
5.0	III	8	--	4	2	VSC: 2	AEC: 2	FP: 2 CC: 2	22	UG Diploma 44
	IV	8	--	4	2	SEC: 2	AEC: 2	CEP: 2 CC: 2	22	
	Cumulative Credit	28	-	10	12	6+6	8+4+2	8+4	88	
Exit Option: Award of UG Diploma in Major and Minor with 80 -88 Credits and an Additional 4 Credits Core NSQF Course / Internship OR Continue with Major and Minor										
5.5	V	10	4	4	--	VSC: 2	--	FP / CEP: 2	22	UG Degree 132
	VI	10	4	4	--	--	--	OJT: 4	22	
	Cumulative Credit	48	8	18	12	8+6	8+4+2	8+6+4	132	
Exit Option: Award of UG Degree in Major with 132 Credits OR Continue with Major and Minor										

Credit Structure: Postgraduate Programme

Master Programmes in Arts, Science and Commerce

Year (2 Year PG)	Level	Semester	Major		RM	OJT / FP	RP	Cumulative Credit	Degree
			Mandatory*	Electives (Any One)					
I	6.0	I	Course 1: Credits 4	Course 1: Credits 4	4	--	--	22	PG Diploma (After 3 Year Degree)
			Course 2: Credits 4	OR					
		Course 3: Credits 4	Course 2: Credits 4						
		Course 4: Credits 2							
		II	Course 1: Credits 4	Course 1: Credits 4	4	--	--	22	
			Course 2: Credits 4	OR					
			Course 3: Credits 4	Course 2: Credits 4					
			Course 4: Credits 2						
Cumulative Credits for PG Diploma			28	8	4	4	--	44	
Exit Option: PG Diploma (44 Credits) after One Year of PG Programme									
II	6.5	III	Course 1: Credits 4	Course 1: Credits 4	--	--	4	22	PG Degree (After 3 Year Degree)
			Course 2: Credits 4	OR					
		Course 3: Credits 4	Course 2: Credits 4						
		Course 4: Credits 2							
		IV	Course 1: Credits 4	Course 1: Credits 4	--	--	8	22	
			Course 2: Credits 4	OR					
			Course 3: Credits 4	Course 2: Credits 4					
Cumulative Credits for 1 Year PG Diploma			26	8	--	--	10	44	
Cumulative Credits for 2 Years PG Degree			54	16	4	4	10	88	

Note: *The number of courses can vary for totaling 14 Credits for Major Mandatory Courses in a Semester as Illustrated

NEW Initiatives in UG and PG Multidisciplinary Programmes

Postgraduate Programmes

1. New Programme Design

M.A. (Philosophical Counselling and Logic Based Therapy)

2. Basket of Major Electives in TRACK Mode

Continuation of Major Elective in all 4 semesters

MSc (Analytical Chemistry) with Major Electives in Inorganic Chemistry in track mode

MSc (Data Science) with Major Electives in Analytics in Track Mode: Retail Marketing Analytics, Sports Data Analytics, Human Resource Analytics, Public Healthcare Analytics, Social Media Analytics, Image and Video Analytics, Financial Risk Analytics and Management, Legal Analytics

Msc (Information Technology) with Major Electives in Track Mode: Artificial Intelligence, Cloud Computing, Security

M.A. (Sanskrit) with Major Electives in Track Mode: Yogashastra, Arthashastra, Epics and Puranas, Classical Sanskrit Literature

Three / Four Years Multidisciplinary UG Programme

Skill Enhancement Courses

Arts, Crafts

Theatre in India (with practical)
Madhubani, Warli painting
Puppetry with hands on training

Ignite the Brain

Basics of Critical Thinking
Logical Reasoning
Understanding Mental Health
Complex Problem Solving

Culture in India

Socio-cultural Importance in Maharashtra
Introduction to Heritage Tourism

Open Electives - General Interest

Electrical and Electronic Gadgets
Population and Health Studies
Understanding the Universe
Wildlife Tourism and Entrepreneurship (with practical)
Work life Ethics
Know your Finances
Financial Literacy
Baking and Confectionary (with practical)
Content Writing
Digital Literacy
Disaster Management,
Entrepreneurship and Business Management
Environmental Sustainability
Health and Wellness
Heart Marshal: First Aid for Heart Diseases
हिंदी सिनेमा की पृष्ठभूमि
Indoor Gardening (with practical)
Lifelong Learning Courses
Maintenance of Domestic Appliances (with practical)
Makeup and Nail Art (with practical)
Money Laundering
Nursery Management and Ornamental Plants
Office Management
Personality Development
Political Communication
Presentation Skills
Retail Management
SAP (Self Awareness Programme)
Social Problems: Skills and Interventions
UN Sustainable Development Goals
Technology and Ethics
Understanding Tourism Products of India
Entrepreneurial Botany: Horticulture
Different Sports

Courses based on General Interest

Basics of Creative Writing
Basics of Essential Oils and Cosmetics (with practical)
Introduction to English Literature

Courses on Programming

Introduction to R Programming
Visual Communication
Web Fundamentals
Web Programming

Value Education Courses: Legal Aspect

Introduction to Constitution of India
Know your Rights
Introduction to IPR
Introduction to Law of Torts
Rights of Consumer
Right to Information

Subject Specific Open electives

Microbes/Physics/Chemistry in Everyday Life
Legislative Policies and Practices
Techniques for Control of Microorganisms
Introduction to Fishery
Applied Sanskrit Grammar
CAD for Gems and Jewellery
Commercial Geography
Computations with Sage Math
Computations with Scilab
Essential Skills for Psychology
Information Technology and its Applications
Neuropsychology
Scientific Communication (with practical)
Techniques in Forensic Sciences
Techniques in Life Sciences
Tools of Biochemistry

Ability Enhancement

संस्कृत संभाषण
अनुवाद प्रयोग
कार्यालयी हिंदी
वार्ताकन कौशल्य आणि भाषांतर
विविध भाषिक कौशल्ये(इतिवृत्त, अर्ज, जाहिरात लेखन)
Professional French
Language Laboratory for Facilitation of Learning of Indian Languages

Skill Courses for Multiple Exits

Medical Writer
Lab Technician/ASSISTANT
Packaging Supervisor
Quality Control Biologist
Quality Control Chemist
Validation Supervisor
Maintenance Assistant
Quality Assurance Chemist

Various Courses under IKS

Performing Arts of India
Visual Arts of India
Development of Science and Technology in India
Indian Mythology
Ayurveda and Herbal Science
Vedic Maths
Scriptology
Indian Cultural Heritage

Other Distinct Features

"The Sunday School" model for co-curricular Activities

School of Skill Education

Life Enrichment Centre for Value Education
and Managing Emotions

Life Skills embedded दीक्षारंभ

Distance, Open and Online Learning

40% Credits allowed through Recognised Distance, Open and
Online Learning Institutes/Platforms

University of Mumbai at Institute of Distance and Open Learning
Centre for Excellence in E-Content Development

Training Teachers to Create Learner- Centered 4-Quadrant e-
Content

Facilitating the Creation of Learner- Centered 4-Quadrant e-
Content

Roadmap for Future

- Dual Degree / Joint Degree / Twinning Degree
- Honours and Minor Degree
- Credit Transfers from across the Country and State
- Four Years Honours Degree
- Local, National and International Collaboration
- Uniform Letter Grading system
- Ten Point Scale
- Transformation of Higher Education Institutions as Multidisciplinary Institutions through Collaboration, Partnerships, Unification of Institutions under same Society, in close Proximity
- On the lines of Academic Bank of Credit: Training Bank of Credit for Teachers for keeping update



University of Mumbai



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