



Maharashtra Education Society's
ABASAHEB GARWARE COLLEGE
(Autonomous)
Kare Road, Pune 411004

National Education Policy - 2020

Curriculum, Credit Framework and
Baskets under Different Verticals
for
Three/Four Year Undergraduate Programme

LEVEL - 4.5
First Year Undergraduate

Implementing from AY 2023 – 24

National Education Policy - 2020

The Credit structure for different levels under Three / Four year UG and PG programme is as follows:

Credit Framework for Under Graduate (UG)

Level / Difficulty	Semester	Credits Related to Major					Minor	GE/OE	SEC	AECC	VEC	CC	Total
		Major Core	Major Elective	VSC	IKS	FP / OJT/ CEP							
Vertical (V)		V-1		V-4	V-5	V-6	V-2	V-3	V-4	V-5	V-5	V-6	
4.5 / 100	1	6	0	2	2	0	0	4	2	2	2	2	22
	2	6	0	2	0	0	2	4	2	2	2	2	22
5.0 / 200	3	8	0	2	0	2 (FP)	4	2	0	2	0	2	22
	4	8	0	0	0	2 (CEP)	4	2	2	2	0	2	22
5.5 / 300	5	10	4	2	0	2 (FP/CEP)	4	0	0	0	0	0	22
	6	10	4	0	0	4 (OJT)	4	0	0	0	0	0	22
Total 3 Years		48	8	8	2	10	18	12	6	8	4	8	132
6.0 / 400	7	10	4	0	0	4 (RP)	4 (RM)	0	0	0	0	0	22
	8	10	4	0	0	8 (RP)	0	0	0	0	0	0	22
		OR											
6.0 / 400	7	14	4	0	0	0	4 (RM)	0	0	0	0	0	22
	8	14	4	0	0	4 (OJT)	0	0	0	0	0	0	22

Credit Framework for Post Graduate (PG)

Level / Difficulty	Semester	Major Core (Th + Pr)	Major Elective (Th + Pr)	Internship	Research Methodology (Minor)	Research Project	Total
6.0 / 500	I	14	4	0	4	0	22
	II	14	4	4	0	0	22
6.5 / 600	III	14	4	0	0	4	22
	IV	12	4	0	0	6	22
Total 2 Yrs		54	16	4	4	10	88

Abbreviations

- OE: Open Elective
- AEC: Ability Enhancement Course
- VEC: value Education Courses
- CC: Co-Curricular Courses
- IKS: Indian Knowledge System
- OJT: On Job Training
- FP: Field Project
- VSC: Vocational Skill Courses
- CEP: Community Engagement Project
- RM: Research Methodology

Basket for Major Courses- Science Faculty

Program Name	Subject Offered	List of VSC	List of IKS
B.Sc. (Grant-in-aid)	Botany	Our Environment Applications of Bioinformatics	Indian Systems of Medicine
	Chemistry	Industrial Chemistry -1 Industrial Chemistry -2	Chemistry in Ayurveda
	Electronic Science	Introduction to Arduino Electronic Projects using Arduino	Contribution of India in Technology
	Mathematics	Mathematical Communication skills Latex	Ancient Indian Mathematics
	Microbiology	Introduction to Industrial Microbiology and Microorganisms Quantitative Industrial Microbiology	IKS and Microbiology
	Physics	Introduction to Python Python Programming	Indian Physics: Ancient to Modern Era
	Statistics	Computational Statistics using MS-EXCEL-I Computational Statistics using MS-EXCEL-II	Evolution of Statistics in India
	Zoology	Sericulture Apiculture	Zoology in Ancient India
B.Sc. / B.C.A. (Non Grant)	Biotechnology	Basic laboratory skills Techniques in Microbiology	Indian Medicinal Plants
	Computer Science (B.Sc / B.C.A.) and Cyber Security	Data Representation and visualization Getting started with Algorithms Fundamental of Digital Communication Data Structure using Python Basics of Computer Organization	Computing Science in Ancient India Analog to Quantum Computing

Basket for Major Courses- Arts Faculty

Program Name	Subject Offered	List of VSC	List of IKS
B.A. (Grant-in-aid) and Non-Grant)	Economics	Introduction of Financial Market Introduction of Stock Market	Contribution of Indian Economist in Economics.
	English	Building your Future: Essential Vocational Skills for Success Career-ready : Vocational Skills Training for the Modern Workplace	Understanding India through Indian Writing in English (20 th and 21 st century)
	Geography	Basics of Map Reading - I Basics of Map Reading - I	Ancient Indian Geographical Thoughts
	Hindi	जनसंचार माध्यम और हिंदी भाषा १ जनसंचार माध्यम और हिंदी भाषा २	भाषा तकनीकी
	History	Forts in India - I Forts in India - II	Understanding India
	Marathi	व्यक्तिमत्वविकास आणि भाषा भाषा आणि उद्योजकता	जागतिकीकरण आणि भाषा
	Political Science	Political Journalism Leadership Development	Ancient Indian Political Thought
	Psychology	Basic Counseling Skills Health Promotion Life Skills	Primary Prevention and Health Promotion Skill
	Sociology	Medical Sociology Issues related to Health and Medicine in India	Folk Culture and Tradition in India
B.Voc. (Non-Grant)	Beauty & Wellness	Mehndi Art And Designing Nail Art And Designing	Ayurvedic Skin Care Remedies
	Mass Communications & Media Convergence	Corporate Communication Creative Writing	Evolution of Indian Journalism

Basket for Minor Courses- Science Faculty

Program Name	Subject Offered
B.Sc. (Grant-in-aid)	Astronomy and Astrophysics
	Botany
	Chemistry
	Electronic Science
	Mathematics
	Microbiology
	Physics of Nanomaterial
	Statistics
B.Sc. / B.C.A. (Non-Grant)	Zoology
	Biotechnology
	Computer Science
	Cyber Security
	Statistics (For other Colleges)

Basket for Minor Courses- Arts Faculty

Program Name	Subject Offered
B.A. (Grant-in-aid)	Education
	Logic
	Philosophy
	Sociology
B.A. (Non -Grant)	Economics
	English
	Geography
	Hindi
	History
	Marathi
	Political Science
	Sociology
B.VoC. (Non-Grant)	Mass Communications Media Convergence Beauty & Wellness

Basket for GE/OE Courses- Science Faculty

Department	Course Title	
	Semester – I	Semester – II
Economics	Financial Literacy-I	Financial Literacy-II
Education	Basics of Education - I	Basics of Education- II
English	Communication Skills in English (Written)	Communication Skills in English (Spoken)
Geography	Basic Concepts in Geography - I	Global Positioning System - I (GPS)
Hindi	पटकथा लेखन - I	पटकथा लेखन - II
History	Indian Heritage	Introduction to Indian Culture
Logic	1. Basics of Logic 2. Logic and Science	1. Logical and Mathematical Reasoning 2. Decision Making
Philosophy	1. Philosophical Skills 2. Ethics in Public Administration	1. Science and Philosophy 2. Films and Philosophy
Marathi	स्पर्धा परीक्षा आणि मराठी भाषा	Marathi Magazine Layout and InDesign
Political Science	Introduction to Indian Constitution	India and the World
Sociology	1. Urban Sociology 2. Urban Culture and Issues	Understanding Social Issues in India
Mass Communications & Media Convergence	Event Management	Basics of Camera
Beauty & Wellness	Introduction To Make Up Skills	Bridal Make Up And Portfolio Making

Basket for GE/OE Courses- Arts Faculty

Department	Course Title	
	Semester – I	Semester – II
Botany	Introduction to Bio-equipments	Regional Phytography
Chemistry	1. Basics of Nanoscience and Nanotechnology 2. अतिसूक्ष्मतरंगज्ञान (Nanoscience and Nanotechnology) in Marathi 3. Synthesis and Properties of Nanomaterials	1. Chemistry of Everyday Life 2. Basic Chemistry Practical
Electronic Science	Digital Skills -I	Digital Skills -II
Mathematics	Basic Algebra + Practical based on Basic Algebra	Basic Calculus + Practical Based on Basic Calculus
Microbiology	Understanding Microbes	Health and Microbes
Physics	1 Physics in Everyday Life 2 Conventional and Non Conventional Energy	1 Physics in Everyday Life 2 Conventional & Non-Conventional Energy
Statistics	Basic Data Analysis Tools	Sample Surveys and Analysis
Zoology	Fresh Water Zoology	Basic Ornithology
Biotechnology	Food processing and preservation	Human Nutrition, Health and Hygiene
Computer Science	Introduction to Computers Introduction to Word, Excel and PowerPoint Basics of Cyber security	E - Commerce Introduction to Google Tool

Basket for SEC Courses

Department	Course Title	
	Semester – I	Semester – II
Botany	Landscape Designing	Basics of Field Botany
Chemistry	Water Testing and Analysis	Biomolecules and Biochemistry Practical
Electronic Science	Introduction to Electronic Laboratory - I	Introduction to Electronic Laboratory - II
Mathematics	Discrete Mathematics	Mathematics for Life Sciences
Microbiology	Introduction to Industrial Process and economics	Industrial Bioprocesses and Microbial Products
Physics	Data Handling and Analysis using MS-EXCEL and Google Spreadsheet	Scientific Data Plotting and Analysis of e-Commerce Sales Dataset using MS-EXCEL
Statistics	Data Representation and Summary Statistics	Predictive Modelling using R software
Zoology	Aquarium Management	Biodegradable Waste Management
Biotechnology	Bioinstrumentation	Biological data handling and processing
Computer Science	Web Page Designing	Digital Awareness
Economics	Basic Concept of Research Methodology – I	Basic Concept of Research Methodology – II
Education	Life Skill Education - I	Life Skill Education -II
English	Mastering Communication Skills in English -I	Mastering Communication Skills in English-2
Geography	Geography and Disaster Management	Applied Course in Travel and Tourism
Hindi	अनुवाद विज्ञान १	अनुवाद विज्ञान 2
History	Historical Tourism	Travel Agency
Logic	Logical Thinking	Logic for Social science I
Philosophy	Social Philosophy	Political Philosophy
Marathi	प्रकाशन व्यवहार आणि संपादन	उपयोजित लेखन कौशल्य: भाषांतर
Political Science	Introduction to Research Tools	Reading and Writing Skills
Sociology	Sociology of Gender	Gender and Media
Mass Communications & Media Convergence	Writing Skills	Translation Skills
Beauty & Wellness	Introduction To Facial Treatments	Personality Development

Basket for AECC Courses

Faculty	Year	Course Title	
For all Students		Semester – I	Semester – II
	I	English	English
	II	Modern Indian Languages 1. Hindi 2. Marathi	Modern Indian Languages 1. Hindi 2. Marathi

Basket for VEC Courses

Faculty	List of Courses	
For all Students	Semester – I	Semester – II
	Environmental Science/Education	Environmental Science/Education
	Human Rights	Democracy and Good Governance

Basket for CC Courses

Arts and Science	Basket List
Student can select any one course in semester - I	Foundation Course in Tabla
	Foundation Course in Bharatanatyam
	Foundation Course in Hindustani Vocal
	Foundation Course in Kathak
	NCC
	NSS
	Health and Wellness
	Yoga education
	sports, and fitness
Cultural Activities	
Compulsory for all the students in semester - II	Physical Education