BABASAHEB BHIMRAO AMBEDKAR UNIVERSITY

Celebrating Silver Jubilee of BBAU

SYLLABUS FOR ENTRANCE EXAMINATION 2020-21

BABASAHEB BHIMRAO AMBEDKAR UNIVERSITY

(A Central University)

(Accredited 'A' Grade by NAAC)

BABASAHEB BHIMRAO AMBEDKAR UNIVERSITY
LUCKNOW
प्रज्ञा शील करूणा
ESTABLISHED 1996

Vidya Vihar, Raebareli Road, Lucknow-226025

Uttar Pradesh, India

UNDERGRADUATE PROGRAMMES ELIGIBILITY AND SYLLABUS

Group	Name of the Course	Duration of Course	Eligibility	Syllabus
1	B.A. (History, Political Science, Public Admn., English, Sociology, Economics) ***(Amethi Campus)***	3 Years (6 Semesters)	10+2 in any subject with 50% marks (45% for SC/ST/PwD) from recognized board/ University.	English (Comprehension and Grammar), General Knowledge, Elementary Mathematics, Aptitude, Logical Reasoning, Numerical and Mental Ability, General Science, Basic of Knowledge of Computer
	B.Com. (Hons.)		Intermediate from any recognized college/University with 50% marks (45% for ST/SC/PwD candidates)	
	B.Com. ***(Amethi Campus)***			
	B.B.A.			
	BBA LL.B. (H)	5 Years (10 Semesters)	Candidate should have passed higher secondary school/ Intermediate examination (10+2) or equivalent examination with not less than 50% marks in aggregate (45% for SC/ST/PwD). Candidate awaiting results are also eligible to appear in the test.	
	B.Ed.	2 Years (4 Semesters)	(i) Candidates with at least 50% marks either in the Bachelor's Degree and/or in the Master's Degree in Sciences/ Social Sciences/Humanity, Bachelor's in Engineering or Technology with qualification equivalent thereto are eligible for admission to the programme. (ii) The reservation and relaxation for SC/ST/OBC/PwD and other categories shall be as per the rules of the Central Government/State Government/BBAU Act and Ordinance, whichever is applicable.	
	B. Voc. (Livestock Production and Management)	3 years (6 Semesters)	Intermediate in any Stream with 50% marks (45% for SC/ST/PwD) from a recognized university	
	B. Voc. (Floriculture & Landscape Gardening)		Intermediate in any Stream with 50% marks (45% for SC/ST/PwD) from a recognized university	
	Bachelor of Library & Information Sciences(B. Lib. I. Sc)	1 Year (2 Semesters)	Graduate Degree in any discipline (3 years or more) with 50% marks (45% for SC/ST/PwD candidates)	
	B.A. (Hons.) Public Admn.	3 years (6 Semesters)	10+2 in any subject with 50% marks (45% for SC/ST/PwD) from recognized board/ University.	

	B.Sc. (Food Science and Technology) (Amethi Campus)	3 years (6 Semesters)	10+2 with Physics, Chemistry and Biology with 50% marks (45% for SC/ST/PwD) from recognized Board/University.	
	B.Sc-M.Sc. Integrated (Basic Science)	3 Years+2 Years (6+4 Semester)	Intermediate in PCM/ PCB with an aggregate of 50% marks (45% for SC/ST/PwD)	
	B.Sc. (Hons.) in Geology	3 years (6 Semesters)	Intermediate in Science with 50% marks in aggregate (45% for SC/ST/PwD)	
	Certificate Course in Yoga	6 Months (1 Semester)	The candidate should have completed 12th standard from recognized board or equivalent	

2	B.Tech. (Civil)	4 Years (8 Semesters)	Intermediate with Science (Physics, Chemistry & Maths) with 50% marks (45% for SC/ST/PwD) from recognized University	General knowledge, General awareness, Basic knowledge of Physics, Chemistry, Mathematics & Computer Science.
	B.Tech. (Computer)			
	B.Tech. (Electrical)			
	B.Tech. (Electronics)			
	B.Tech. (Mechanical)			
	B.Sc. (IT) ***(Amethi Campus)***	3 Years (6 Semesters)	10+2 with a combination of Physics, Chemistry and Maths or Computer science or equivalent as one of the subjects with 50% marks (45% for SC/ST/PwD) from recognized Board/University.	
	B.C.A. ***(Amethi Campus)***			

3	Certificate Course in Music	1 Year (2 Semester)	The candidate should have completed 12th standard from recognized board or equivalent	(No Written Test) A voice audition will be taken as entrance test for this course. The audition will be taken at the Babasaheb Bhimrao Ambedkar University premises

POSTGRADUATE PROGRAMMES ELIGIBILITY AND SYLLABUS

Sl. No.	Name of the Course	Duration of Course	Eligibility	Syllabus
1	M.A. History	2 Years (4 Semesters)	Graduate Degree with 50% marks (45% for SC/ST/PwD) in any Social Science Subject from a recognized University.	General English (Comprehension and Grammar), General Knowledge, Elementary Mathematics, Aptitude, Logical Reasoning, Numerical and Mental Ability, Current affairs, General Studies, History, Indian National Movements, Polity,Governance, Cultural scenario, Basic Economic and Social Development, Data Interpretation, Indian Economic Issues and Problems.
	M.A. (History) ***(Amethi Campus)***			
	M.A. Education		Graduate Degree with 50% marks (45% for SC/ST/PwD) in the field of Humanities, Social Sciences.	
	M.A. Sociology		Graduation degree with 50% marks (45 % for SC/ST/PwD) in any discipline from recognized University	
	M.A. Political Science			
	M.A. Public Administration			
	M.A. (JMC)			
	M.A. Economics		Graduate Degree with 50% marks (45% for SC/ST/PwD) in Economics/ Commerce/ Business Administration/ Agricultural Economics or in Science with Mathematics as a paper at 10+2 level.	
	MBA (Rural Management)		Graduate from any recognized University with 50% marks (45% for SC/ST/PwD candidates)	
	MBA (Marketing Management)			
	MBA (Human Resource Management)			
	MBA (Finance Management)			
	M.Sc. Yoga		Bachelor of Science in Yoga (B.Sc.) with 50% marks (45% for SC/ST/PwD) from recognized University	
2	M.A. (English) ***(Amethi Campus)***	2 Years (4 Semesters)	B.A. Hons. (English) or B.A. with English as a compulsory subject in all three years with 50% marks (45% for SC/ST/PwD) from recognized Board/University.	Basic knowledge of English, literary trends/ famous authors in English.
3	M.A. Hindi	2 Years (4 semesters)	Graduation degree with 50% marks (45 % for SC/ST/PwD) in any discipline from recognized University	स्नातक स्तरीय हिन्दी साहित्य का आधारभूत ज्ञान
4	M.A. Sanskrit	2 Years (4 Semesters)	• BA (Hons) Sanskrit or • B.A.(Pass)/B.A.(Programme)/ B.A.(Hons) in any disciplines with at least two papers of Sanskrit or	स्नातक स्तरीय संस्कृत विषय का आधारभूत ज्ञान

			• Shastri (Sanskrit) from any recognized University/Deemed University or • M.A. Examination in Arts and Humanities (Except Sanskrit) With 50% marks (45% for SC/ST/PH) from any recognized University/Deemed to be University	
5	M.Sc. Environmental Science	2 Years (4 Semesters)	Graduate degree with 50% marks (45% for SC/ST/PwD) in Agricultural/ Life Science/ Home Science and their allied subject.	Basic knowledge of the following subject at graduation level: Chemistry, Botany, Zoology along with allied subjects like Biotechnology, Biochemistry, Microbiology & Environmental Science, Life Science.
	M.Sc. Biotechnology		Graduate in any discipline of Life Sciences /Agricultural Science or other allied subjects like Biotechnology / Microbiology / Biochemistry with 50% (45% for SC/ST/PwD) from a recognized university.	
	M.Sc. Zoology		Graduate degree with 50% marks (45% for SC/ST/PwD) in Life Sciences / Zoology/ Animal Science/Sericulture from a recognized University/Institute	
	M.Sc. Life Science			
	M.Sc. Environmental Microbiology	2 Years (4 Semesters)	Graduate in any branch of Life Sciences with 50% (45% for SC/ST/PH) from a recognized University	
	M.Sc. Food Microbiology and Toxicology	2 Years (4 Semesters)		
	M. Sc. Industrial Microbiology	2 Years (4 Semesters)		
	M.Sc. Food Science & Technology	2 Years (4 Semesters)	B.Sc. in Home Science / B.Sc. (ZBC) (Zoology, Botany, and Chemistry)/ B.Sc. in other allied subjects related to Food Sciences &Technology with 50% marks for General and 45% marks for SC/ST/PwD candidates at Graduation Level.	
	M.Sc. Food & Nutrition			
6	M.Sc. Human Development & Family Studies	2 Years (4 Semesters)	B.Sc. Home Science with 50% marks for General and 45% marks for SC/ST/PwD candidates at graduation level	Graduate Level Knowledge of all branches of Home Science (Food & Nutrition / Family Resource Management / Clothing & Textiles / Human Development & Family Studies / Extension Education /
7	M.Sc. Chemistry	2 Years (4 Semesters)	B.Sc. (Chemistry as main subject) with 50% marks (45% for SC/ST/PwD) from recognized University	As per UGC model curriculum for Chemistry at UG level. https://www.ugc.ac.in/oldpdf/modelcurriculum/chemistry.pdf
8	M.Sc. Physics	2 Years (4 Semesters)	B.Sc. with Physics as one of the main subjects from any recognized University/ Institution within aggregate 50% (45% for SC/ST/PH) marks	As per UGC model curriculum for Physics at UG level. https://www.ugc.ac.in/oldpdf/modelcurriculum/physics.pdf

9	M.Sc. Nuclear Medicine Technology	2 Years (4 Semesters)	B.Sc. in Nuclear Medicine Technology or B.Sc. with Physics as one of the main subject from any recognized University/ Institution within aggregate 50% (45% for SC/ST/PwD) marks	General scientific awareness and scientific aptitude (50 questions) Atom, nucleus, atomic model, valency, periodic table, states of matter, boiling point, evaporation, freezing, materials, ores, alloy, chemical reactions, acid, base. Biodiversity, evolution of life on earth, food chains, vitamins, water cycle, human body, hormones.Dimension and units, Newton's laws of motion, gravitation, current scientific and technological events and of such matters of everyday observation and experience, light and related events.Reasoning on number system, mean, mode, median, relationship concepts, fundamental arithmetical operations, percentage, ratio and proportion, averages, interest, profit and loss, graphs, time and distance. Origin of the earth, universe and our galaxy, constitution of atmosphere, planet, satellite, Indian satellite program, ocean, solar energy, environmental problems of India and world, pollution and its kind. Knowledge about various scientific organizations and funding agencies. Physics (50 questions) Radioactivity, Isotopes and nuclides, Binding forces between nuclear particles, Alpha and Beta particles, Gamma radiation, Mechanisms of radioactive decay, Half life, Nuclear reactions and their conservation laws, Cross section of nuclear reactions, Theory of fission, Nuclear reactors and Nuclear fusion, Cyclotron and Synchrotron, Interaction of charged particles and gamma rays with matter (qualitative), GM counter, Scintillation counter and neutron detectors.Electric field, Gauss and Coulomb's law, Magentic field, Amperes's law, BiotSavert law, Faradey law, Lenz's law, Electromagnetic wave and its properties, Electromagnetic spectrum.Semiconductor – p-type and ntype materials, pn junction, diodes, transistors, FET, Biasing of diode and transistor.Photoelectric effect, Compton effect, Wave-particle duality, de Broglie matter waves, Heisenberg's Uncertainty principle, Complementary principle, Principle of superposition, Motion of wave packets. Schroedinger wave equation, Interpretation of wave function, Expectation values of dynamical variables.
10	M.Sc. Mathematics	2 Years (4 Semesters)	B.Sc./ B.A. degree (with one subject as mathematics) with 50% marks (45%for SC/ST/PwD) from recognized University	As per model curriculum prescribed by UGC for UG course, New Delhi. https://www.ugc.ac.in/oldpdf/modelcurriculum/maths.pdf
11	M.Sc. Statistics	2 Years (4 Semesters)	Graduate Degree with 50% marks (45%for SC/ST/PwD candidates) in Statistics or Applied Statistics	As per UGC model curriculum for Statistics at UG level. https://www.ugc.ac.in/oldpdf/modelcurriculum/stats.pdf
12	M.Sc. (Agriculture) Horticulture	2 Years (4 Semesters)	Graduate Degree in Agriculture/ Horticulture, B.Voc (Floriculture and Landscape Gardening) or Biology with 50% marks (45%	Part A: General Agriculture, viz., Agronomy, Agricultural economics, Agricultural entomology, Agricultural extension and education, Agricultural engineering, Animal Husbandry and Dairy science,

			for SC/ST/PwD) from a recognized university	Agroforestry, Genetics and Plant Breeding, Soil Science and Agricultural Chemistry, Plant Pathology and Plant Physiology. Part B: Consisting all branches of Horticulture and giving equal importance to Fruit Science (Pomology), Vegetable Science (Oleri culture), Floriculture and landscaping, Post Harvest Handling, Processing and Marketing of Horticultural crops including Medicinal and Aromatic plants, spices, condiments and plantation crops.
13	Master of Library & Information Sciences (M. Lib. I. Sc)	1 Year	B.Lib. Sc/ B. Lib. I Sc. With 50% marks (45% for SC/ST/PWD candidates)	Library organization and services, foundations of library and Information Science, knowledge organization (classification, cataloguing, etc.), Information processing and retrieval Information Technology basics, Information sources and services, management of library and Information centers, Information retrieval, Library automation and Digital Libraries.
14	M.Pharm. Pharmaceutics M.Pharm. Pharmacology	2 Years (4 Semesters)	B.Pharm. with 55 % marks (50 % for SC/ST/PwD) preference for GPAT/GATE qualified candidate necessarily from an institution having PCI approval	Syllabus as per GPAT. General understanding of subjects taught at B. Pharm level. Syllabus: Natural Products, Pharmacology, Medicinal Chemistry, Pharmaceutics, Pharmaceutical Jurisprudence, Pharmaceutical Analysis, Biochemistry, Microbiology and Clinical Pharmacy. Some questions of General Awareness.
15	M.C.A.	3 Years (6 Semesters)	Any Graduate Degree with 50% marks (45% for SC/ST/PWD candidates) with Mathematics at 10+2 level.	Unit – I : Mathematics: Solution of Linear and Quadratic Equations, Convergence and Divergence of Series, Functions, Limit and Continuity, Differential and Integral Calculus, Matrix Algebra. Unit – II : Computer Fundamentals: Computer Basic, Data Representations, Binary Arithmetic, I/O Units, Computer Memory, Processor, Logic Circuits, Computer Languages Evaluation, Computer Generations and Classifications, Computer Network, Network Topologies. Unit – III : Programming in 'C': Constants, Variables and Data types, Operators and Expressions, I/O Operators, Decision making, Branching, Looping, Arrays, Character Strings, Functions, Unions, Pointers and File Management.
16	M.Tech. (Software Engineering)	2 Years (4 Semesters)	Degree in B.Tech./BE in CSE/IT/ Electronics or equivalent degree/ M.Sc. in IT/CS/Mathematics / Statistics or equivalent/MCA, 50% marks (45% for SC/ST/PwD) from recognized University	GATE (Computer Science and Information Technology) Syllabus
17	M.Tech. (Computer Science)	2 Years (4 Semesters)	Master Degree in Computer Science or Mathematics or Statistics or Operational Research or any branch of Science or Bachelor Degree in any branch of Engineering or Master's in Computer Application with at least 50% marks (45%	GATE (Computer Science and Information Technology) Syllabus

			for SC/ST/PwD) from a recognized university	
18	M.Sc. (Information Technology)	2 Years (4 Semesters)	Graduate Degree with 50% marks (45% for SC/ST/PwD Candidates) in Science with mathematics or BCA/BIT/B.Sc. (Hons.) in computer science/ Information Technology with 50% marks(45% for SC/ ST/Ph candidates) or above in mathematics separately from recognized University	Unit-I Sets and subsets, operations on sets, sequences, properties of integers, relations and functions., Fundamental operations in Algebra, expansion, Factorization, quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions, binomial theorem, permutations and combinations, surds. Unit-II Trigonometric Functions and their graphs, addition and subtraction formulas; formulae involving multiple and submultiples angles; inverse trigonometric functions; solution of trigonometric equation; relations between the sides and angles of a triangle; solution of triangle, simple applications in finding height and distances. Unit-III Basic understanding of Computers, Information and communication technologies and applications, Current developments in IT, Programming Languages. Flow chart and Algorithm, Fundamentals of Operating System and Basics of Internet. Unit-IV Logical Reasoning: Alphanumeric series, Analogies, Artificial Language, Blood Relations, Calendars, Cause and Effect, Clocks, Coding-Decoding, Critical path, Cubes and cuboids, Data Sufficiency, Decision Making, Deductive Reasoning/Statement Analysis, Dices, Directions, Embedded Images, Figure Matrix, Input-Output, Mirror and Water Images, Odd One Out, Picture Series and Sequences, Paper Folding, Pattern Series and Sequences, Ranking, Seating Arrangements, Shape Construction, Simple equation and age problems, Statement and Assumptions, Statement and Conclusions, Syllogism Unit-V General English: Use of articles and prepositions, Idioms and phrases, Synonyms, Reading comprehension, Expansion of an idea, Sentence sequence (jumbled sentences), Completion of a sentence (with choices), Choice of appropriate word to fill in the blanks (with options), Abridging sentences/paragraphs
19	M.Sc. Cyber Security (Evening)	2 Years (4 Semesters)	Graduate degree with 50% marks(45% for SC/ST/PwD) from recognized University	
	M.Sc. Cyber Security (Evening) Lateral Entry to third Semester	1 Year	Post Graduate Diploma in Cyber Security/Information Security/Cyber Law or any other Course/Programme in concerned subjects with 50% marks (45% for SC/ST/PWD candidates) from a recognized university	
20	LL.M. Human Right	2 Years (4 Semesters)	Law Graduate Degree (Three & Five years LL.B.) with 50% marks (45% for SC/ST/PwD).	Jurisprudence, Constitutional Law, Criminal Law, Torts, Contracts, Human Rights & International Law. Arbitration, Family Laws and Environmental Law. *Assessment/ Counselling for 30% marks shall be at the time of
	LL.M. Law		LL.B. with 50% marks (45% marks for SC/ST/PH) from a recognized university.	

	One Year LL.M.	1 Year	Law Graduate Degree (Three/Five years LL.B.) with 50% marks (45% for SC/ST/PwD).	counseling and the test shall be for 70% of marks for One Year LL.M.
21	M.Sc. Geology	2 Years (4 Semesters)	Graduate degree with 50% marks (45% for SC/ST/PwD candidates) in B.Sc. (Hons.)/ B.Sc. and Geology as an essential subject. **Note:** A candidate must have passed B.Sc. Examination with Geology and a combination of any two of the following subjects. Physics/Chemistry/Math/ Botany/Zoology/Environment Science/ (Besides Geology)	As per UGC model curriculum for Geology at UG level. https://www.ugc.ac.in/pdfnews/1853907_B.Sc.-Hons.-Goelogy.pdf

- Those department which are offering M.Phil./ Ph.D. Programs, a common entrance test will be held for them discipline wise.