

Present Structure of B. Sc. Honours Microbiology under CBCS

Core Courses (all)

- C-1: Introduction to Microbiology and Microbial Diversity
- C-2: Bacteriology
- C-3: Biochemistry
- C-4: Virology
- C-5: Microbial Physiology and Metabolism
- C-6: Cell Biology
- C-7: Molecular Biology
- C-8: Microbial Genetics and Genomics
- C-9: Environmental Microbiology
- C-10: Food and Dairy Microbiology
- C-11: Industrial Microbiology
- C-12: Immunology
- C-13: Medical Microbiology
- C-14: Recombinant DNA Technology

Discipline Centric Elective (any four)

- DSE-1: Bioinformatics,
- DSE-2: Plant Pathology,
- DSE-3: Inheritance Biology
- DSE-4: Biomathematics and Biostatistics
- DSE-5: Microbial Biotechnology,
- DSE-6: Advances in Microbiology,
- DSE-7: Instrumentation and Biotechniques,
- DSE-8: Biosafety and Intellectual Property Rights (IPR),
- DSE-9: Project Work

Generic Electives (any four) Offered to the students of other Departments

- GE-1: Introduction and Scope of Microbiology
- GE-2: Bacteriology and Virology
- GE-3: Microbial Metabolism
- GE-4: Microbial Genetics and Molecular Biology
- GE-5: Industrial and Food Microbiology
- GE-6: Microbes in Environment
- GE-7: Medical Microbiology and Immunology
- GE-8: Genetic Engineering and Biotechnology

Skill Enhancement Elective Courses (Any Two)

- SE-1: Microbial Quality Control in Food and Pharmaceutical Industries
- SE-2: Microbial Diagnosis in Health Clinics
- SE-3: Biofertilizers and Biopesticides
- SE-4: Food Fermentation Techniques
- SE-5: Management of Human Microbial Diseases
- SE-6: Microbiological Analysis of Air and Water
- SE-7: Fundamentals of Bioinformatics

CORE COURSE

Paper Code	Name of Course	No. of Credits	Course Co-ordinator (Departmental Convenor)	Course Teachers	Student Representatives
C-1 I	Introduction to Microbiology and Microbial Diversity MICROB-CC101	L=4 P=2	Dr. Y.P. Khasa	Mrs. Nitika Nagpal Dr. Rekha Gupta Dr. Ruchi G. Marwah	
C-2 I	Bacteriology MICROB-CC102	L=4 P=2	Dr. Y.P. Khasa	Dr. Purnima Anand Dr. Kusum Gupta Dr. Ashima Vohra	
C-3 II	Biochemistry MICROB-CC201	L=4 P=2	Prof. Swati Saha	Dr. Sudha Chaudhary Dr. Kavita Vasdev Dr. Ruchi G. Marwah	
C-4 II	Cell Biology MICROB-CC202	L=4 P=2	Prof. Swati Saha	Dr. S.K. Srivastava Dr. Anita Kapila Dr. Rekha Mehrotra	
C-5 III	Microbial Physiology and Metabolism MICROB-CC301	L=4 P=2	Prof. Swati Saha	Dr. Shashi Chawla Dr. Sudha Chaudhary Mrs. Nitika Nagpal	
C-6 III	Environmental Microbiology MICROB-CC302	L=4 P=2	Dr. Y.P. Khasa	Dr. Purnima Anand Dr. Surabhi Shrivastava Dr. Anjana Kapoor	

C-7 III	Molecular Biology MICROB-CC303	L=4 P=2	Prof. Swati Saha	Dr. Kavita Vasdev Dr. N. Vijay Kumar Dr. R. K. Gupta	
C-8 IV	Microbial Genetics and Genomics MICROB-CC401	L=4 P=2	Prof. Swati Saha	Dr. N. Vijay Mrs. Sonia Chaudhary Dr. Kusum Gupta	
C-9 IV	Virology MICROB-CC402	L=4 P=2	Dr. Rajeev Kaul	Dr. Surabhi Shrivastava Dr. Sonia Chaudhary Dr. S.K. Srivastava	
C-10 IV	Food and Dairy Microbiology MICROB-CC403	L=4 P=2	Dr. Y.P. Khasa	Dr. Rekha Gupta Dr. Sunita Aggarwal Mrs. Nitika Nagpal	
C-11 V	Industrial Microbiology MICROB-CC501	L=4 P=2	Dr. Y.P. Khasa	Dr. Arti Nigam Dr. Rekha Gupta Dr. R.K. Gupta	
C-12 V	Immunology MICROB-CC502	L=4 P=2	Dr. Rajeev Kaul	Dr. Kusum Gupta Dr. Shashi Chawla Dr. Sunita Aggarwal	
C-13 VI	Medical Microbiology MICROB-CC601	L=4 P=2	Dr. Rajeev Kaul	Dr. Anita Kapila Dr. Pawas Goswami Dr. Vandana Gupta	
C-14 VI	Recombinant DNA Technology MICROB-CC602	L=4 P=2	Prof. Swati Saha	Dr. A. Archana Dr. Prerna Diwan Mrs. Sonia Chaudhary	

Discipline Centric Elective Paper (DSE)

Paper Code	Name of Course	No. of Credits	Course Co-ordinator (Departmental Convenor)	Course Teachers	Student Representatives
DSE-1 V	Bioinformatics MICROB-DSE501	L=4 P=2	Dr. Rajeev Kaul	Dr. Vandana Gupta Dr. Kavita Vasdev Dr. Purna Diwan	
DSE-2 V	Plant Pathology MICROB-DSE502	L=4 P=2	Dr. Y.P. Khasa	Dr. Anjana Kapoor Dr. Sudha Chaudhary Dr. Purnima Anand	
DSE-3 V	Inheritance Biology MICROB-DSE503	L=4 P=2	Prof. Swati Saha	Mrs. Sonia Chaudhary Dr. Purnima Anand Dr. A. Archana	
DSE-4 V	Biomathematics and Biostatistics MICROB-DSE504	L=4 P=2	Dr. Rajeev Kaul	Dr. A. Archana Dr. Bhawna Kapoor (GC maths) Dr. Rita Jain (RLA Stats)	
DSE-5 VI	Microbial Biotechnology MICROB-DSE601	L=4 P=2	Dr. Y.P. Khasa	Dr. A. Archana Dr. Anita Kapila Dr. Ruchi G Marwah	
DSE-6 VI	Advances in Microbiology MICROB-DSE602	L=4 P=2	Prof. Swati Saha	Dr. Prerna Diwan Dr. S.K. Srivastava Dr. Shashi Chawla	
DSE-7 VI	Instrumentation and Biotechniques MICROB-DSE603	L=4 P=2	Prof. Swati Saha	Dr. Kusum Gupta Dr. A. Archana Dr. Rekha Mehrotra	
DSE-8 VI	Biosafety and Intellectual Property Rights (IPR) MICROB-DSE604	L=4 P=2	Dr. Rajeev Kaul	Dr. Prerna Diwan Dr. Kavita Vasdev Dr. N. Vijay Kumar	
DSE-9 VI	Project Work MICROB-DSE605	L=4 P=2	Dr. Rajeev Kaul	Dr. Ashima Vohra Dr. Vandana Gupta Dr. S.K. Srivastava	

Generic Electives Paper (GE)

Paper Code	Name of Course	No. of Credits	Course Co-ordinator (Departmental Convenor)	Course Teachers	Student Representatives
GE-1 I	Introduction and Scope of Microbiology MICROB-GE101	L=4 P=2	Dr. Y.P. Khasa	Dr. Rekha Gupta Dr. Anita Kapila Dr. Ruchi G Marwah	
GE-2 II	Bacteriology and Virology MICROB-GE201	L=4 P=2	Dr. Rajeev Kaul	Dr. Surabhi Shrivastava Dr. Purnima Anand Dr. Ashima Vohra	
GE-3 III	Microbial Metabolism MICROB-GE301	L=4 P=2	Prof. Swati Saha	Dr. Shashi Chawla Dr. Sudha Chaudhary Mrs. Nitika Nagpal	
GE-4: III	Microbial Genetics and Molecular Biology MICROB-GE302	L=4 P=2	Prof. Swati Saha	Dr. N. Vijay Kumar Dr. Sunita Aggarwal Mrs. Sonia Chaudhary	
GE-5 IV	Industrial and Food Microbiology MICROB-GE401	L=4 P=2	Dr. Y.P. Khasa	Dr. Rekha Gupta Dr. Arti Nigam Dr. Pawas Goswami	
GE-6 IV	Microbes in Environment MICROB-GE402	L=4 P=2	Dr. Y.P. Khasa	Dr. Anjana Kapoor Dr. Surabhi Shrivastava Dr. Vandana Gupta	
GE-7 IV	Medical Microbiology and Immunology MICROB-GE403	L=4 P=2	Dr. Rajeev Kaul	Dr. S.K. Srivastava Dr. Pawas Goswami Dr. Kusum Gupta	
GE-8 IV	Genetic Engineering and Biotechnology MICROB-GE404	L=4 P=2	Prof. Swati Saha	Dr. Kavita Vasdev Dr. Arti Nigam Mrs. Sonia Chaudhary	

Skill Enhancement Elective Courses (SEC)

Paper Code	Name of Course	No. of Credits	Course Co-ordinator (Departmental Convenor)	Course Teachers	Student Representatives
SE-1 III-IV	Microbial Quality Control in Food and Pharmaceutical Industries MICROB-SE1	L=4	Dr. Y.P. Khasa	Dr. Prerna Diwan Dr. Ruchi G Marwah Dr. Ashima Vohra	
SE-2: III-IV	Microbial Diagnosis in Health Clinics MICROB-SE2	L=4	Dr. Rajeev Kaul	Dr. Pawas Goswami Dr. S.K. Srivastava Dr. Arti Nigam	
SE-3 III-IV	Biofertilizers and Biopesticides MICROB-SE3	L=4	Dr. Y.P. Khasa	Dr. Arti Nigam Dr. Surabhi Shrivastava Dr. Anjana Kapoor	
SE-4: III-IV	Food Fermentation Techniques MICROB-SE4	L=4	Dr. Y.P. Khasa	Mrs. Nitika Nagpal Dr. Pawas Goswami Dr. Sunita Aggarwal	
SE-5 III-IV	Management of Human Microbial Diseases MICROB-SE5	L=4	Dr. Rajeev Kaul	Dr. Anita Kapila Dr. Shashi Chawla Dr. Sunita Aggarwal	
SE-6 III-IV	Microbiological Analysis of Air and Water MICROB-SE6	L=4	Dr. Y.P. Khasa	Dr. Ashima Vohra Dr. Sudha Chaudhary Dr. Anjana Kapoor	
SE-7 III-IV	Fundamentals of Bioinformatics MICROB-SE7	L=4	Dr. Rajeev Kaul	Dr. Vandana Gupta Dr. N. Vijay Dr. Prerna Diwan	