



**RAMAKRISHNA MISSION  
VIVEKANANDA CENTENARY COLLEGE**

(a Unit of R. K. Mission Boys' Home, Rahara)

**P.O. RAHARA, KOLKATA-700118**

**WEST BENGAL, INDIA**

**Authenticated list of courses under each program year-wise during 2018-2019**

| Sl. No. | Program code | Program name            | Course code | Course name                        | Year of offering |
|---------|--------------|-------------------------|-------------|------------------------------------|------------------|
| 1       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC01   | Mathematical Physics - I           | 2018-2019        |
| 2       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC02   | Mechanics                          | 2018-2019        |
| 3       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC03   | Electricity and Magnetism          | 2018-2019        |
| 4       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC04   | Waves and Optics                   | 2018-2019        |
| 5       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC05   | Mathematical Physics - II          | 2018-2019        |
| 6       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC06   | Thermal Physics                    | 2018-2019        |
| 7       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC07   | Digital Systems and Applications   | 2018-2019        |
| 8       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC08   | Mathematical Physics - III         | 2018-2019        |
| 9       | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC09   | Elements of Modern Physics         | 2018-2019        |
| 10      | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC10   | Analog Systems and Applications    | 2018-2019        |
| 11      | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC11   | Quantum Mechanics and Applications | 2018-2019        |
| 12      | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC12   | Solid State Physics                | 2018-2019        |
| 13      | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC13   | Electromagnetic Theory             | 2018-2019        |
| 14      | UGPHY        | B.Sc. Physics (Honours) | UGPHYCC14   | Statistical Mechanics              | 2018-2019        |
| 15      | UGPHY        | B.Sc. Physics (Honours) | UGPHYDSE01  | Advanced Mathematical Physics - I  | 2018-2019        |
| 16      | UGPHY        | B.Sc. Physics (Honours) | UGPHYDSE02  | Classical Dynamics                 | 2018-2019        |
| 17      | UGPHY        | B.Sc. Physics (Honours) | UGPHYDSE03  | Communication Electronics          | 2018-2019        |
| 18      | UGPHY        | B.Sc. Physics (Honours) | UGPHYDSE04  | Advanced Mathematical Physics - II | 2018-2019        |
| 19      | UGPHY        | B.Sc. Physics (Honours) | UGPHYDSE05  | Nuclear and Particle Physics       | 2018-2019        |
| 20      | UGPHY        | B.Sc. Physics (Honours) | UGPHYDSE06  | Nano Materials and Applications    | 2018-2019        |

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| Sl. No. | Program code | Program name              | Course code | Course name                               | Year of offering |
|---------|--------------|---------------------------|-------------|-------------------------------------------|------------------|
| 21      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYDSE07  | Dissertation / Project work               | 2018-2019        |
| 22      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYSEC01  | Value Education and Indian Culture        | 2018-2019        |
| 23      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYSEC02  | Spoken Tutorial                           | 2018-2019        |
| 24      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYGE01   | Mechanics                                 | 2018-2019        |
| 25      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYGE02   | Thermal Physics and Statistical Mechanics | 2018-2019        |
| 26      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYGE03   | Waves and Optics                          | 2018-2019        |
| 27      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYGE04   | Electricity and Magnetism                 | 2018-2019        |
| 28      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYAECC01 | English Communication                     | 2018-2019        |
| 29      | UGPHY        | B.Sc. Physics (Honours)   | UGPHYAECC02 | Environmental Science                     | 2018-2019        |
| 30      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC01  | Organic Chemistry 01                      | 2018-2019        |
| 31      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC02  | Physical Chemistry 01                     | 2018-2019        |
| 32      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC03  | Inorganic Chemistry 01                    | 2018-2019        |
| 33      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC04  | Organic Chemistry 02                      | 2018-2019        |
| 34      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC05  | Physical Chemistry 02                     | 2018-2019        |
| 35      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC06  | Inorganic Chemistry 02                    | 2018-2019        |
| 36      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC07  | Organic Chemistry 03                      | 2018-2019        |
| 37      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC08  | Physical Chemistry 03                     | 2018-2019        |
| 38      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC09  | Inorganic Chemistry 03                    | 2018-2019        |
| 39      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC10  | Organic Chemistry 04                      | 2018-2019        |
| 40      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC11  | Inorganic Chemistry 04                    | 2018-2019        |
| 41      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC12  | Organic Chemistry 05                      | 2018-2019        |
| 42      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC13  | Inorganic Chemistry 05                    | 2018-2019        |
| 43      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMCC14  | Physical Chemistry 04                     | 2018-2019        |
| 44      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMDSE01 | Advanced Physical Chemistry               | 2018-2019        |
| 45      | UGCEM        | B.Sc. Chemistry (Honours) | UGCHEMDSE02 | Analytical Methods of Chemistry           | 2018-2019        |



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|---------|--------------|-----------------------------|--------------|----------------------------------------------------------|------------------|
| 46      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMDSE03  | Green Chemistry                                          | 2018-2019        |
| 47      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMDSE04  | Inorganic Materials of Industrial Importance             | 2018-2019        |
| 48      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMDSE05  | Industrial Chemicals and Environment                     | 2018-2019        |
| 49      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMSEC01  | Pharmaceutical Chemistry                                 | 2018-2019        |
| 50      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMSEC02  | Fuel Chemistry                                           | 2018-2019        |
| 51      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMGE01   | Generic Elective 01                                      | 2018-2019        |
| 52      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMGE02   | Generic Elective 02                                      | 2018-2019        |
| 53      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMGE03   | Generic Elective 03                                      | 2018-2019        |
| 54      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMGE04   | Generic Elective 04                                      | 2018-2019        |
| 55      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMAECC01 | English Communication                                    | 2018-2019        |
| 56      | UGCEM        | B.Sc. Chemistry (Honours)   | UGCHEMAECC02 | Environmental Science                                    | 2018-2019        |
| 57      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC01   | Calculus, Geometry & Differential Equation & Practical   | 2018-2019        |
| 58      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC02   | Algebra & Tutorial                                       | 2018-2019        |
| 59      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC03   | Real Analysis & Practical                                | 2018-2019        |
| 60      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC04   | Differential Equations & Vector Calculus & Practical     | 2018-2019        |
| 61      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC05   | Theory of Real Functions & Introduction to Metric Spaces | 2018-2019        |
| 62      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC06   | Group Theory I & Tutorial                                | 2018-2019        |
| 63      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC07   | Numerical Methods & Practical - Numerical Methods Lab    | 2018-2019        |
| 64      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC08   | Riemann Integration and Series of Functions              | 2018-2019        |
| 65      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC09   | Multivariate Calculus                                    | 2018-2019        |
| 66      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC10   | Ring Theory and Linear Algebra                           | 2018-2019        |

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|---------|--------------|-----------------------------|--------------|-------------------------------------------------------|------------------|
| 67      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC11   | PartialDifferentialEquationsandApplications&Practical | 2018-2019        |
| 68      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC12   | GroupTheoryII&Tutorial                                | 2018-2019        |
| 69      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC13   | MetricSpacesandComplexAnalysis&Tutorial               | 2018-2019        |
| 70      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHCC14   | RingTheoryandLinearAlgebraII&Tutorial                 | 2018-2019        |
| 71      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHDSE1   | LinearProgramming&Tutorial                            | 2018-2019        |
| 72      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHDSE2   | ProbabilityandStatistics&Tutorial                     | 2018-2019        |
| 73      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHDSE3   | Mechanics&Tutorial                                    | 2018-2019        |
| 74      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHDSE4   | BioMathematics&Practical                              | 2018-2019        |
| 75      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHDSE5   | PointSetTopology&Tutorial                             | 2018-2019        |
| 76      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHSEC1   | LogicandSets                                          | 2018-2019        |
| 77      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHSEC2   | Python 3.4.3                                          | 2018-2019        |
| 78      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHGE01   | Algebra&Tutorial                                      | 2018-2019        |
| 79      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHGE02   | Calculus,GeometryandDifferentialEquation&Tutorial     | 2018-2019        |
| 80      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHGE03   | NumericalMethods&Tutorial                             | 2018-2019        |
| 81      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHGE04   | GroupTheory&Tutorial                                  | 2018-2019        |
| 82      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHAECC01 | English Communication                                 | 2018-2019        |
| 83      | UGMATH       | B.Sc. Mathematics (Honours) | UGMATHAECC02 | Environmental Science                                 | 2018-2019        |
| 84      | UGBOT        | B.Sc. Botany (Honours)      | UGBOTCC01    | Phycology and Microbiology                            | 2018-2019        |
| 85      | UGBOT        | B.Sc. Botany (Honours)      | UGBOTCC02    | Biomolecules and Cell Biology                         | 2018-2019        |
| 86      | UGBOT        | B.Sc. Botany (Honours)      | UGBOTCC03    | Mycology and Phytopathology                           | 2018-2019        |
| 87      | UGBOT        | B.Sc. Botany (Honours)      | UGBOTCC04    | Archegoniate                                          | 2018-2019        |
| 88      | UGBOT        | B.Sc. Botany (Honours)      | UGBOTCC05    | Anatomy of Angiosperms                                | 2018-2019        |
| 89      | UGBOT        | B.Sc. Botany (Honours)      | UGBOTCC06    | Economic Botany                                       | 2018-2019        |



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|---------|--------------|-------------------------|-------------|--------------------------------------------------|------------------|
| 90      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC07   | Genetics                                         | 2018-2019        |
| 91      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC08   | Molecular Biology                                | 2018-2019        |
| 92      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC09   | Plant Ecology and Phytogeography                 | 2018-2019        |
| 93      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC10   | Plant Systematics                                | 2018-2019        |
| 94      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC11   | Reproductive Biology of Angiosperms              | 2018-2019        |
| 95      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC12   | Plant Physiology                                 | 2018-2019        |
| 96      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC13   | Plant Metabolism                                 | 2018-2019        |
| 97      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTCC14   | Plant Biotechnology                              | 2018-2019        |
| 98      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTDSE01  | Industrial and Environmental Microbiology        | 2018-2019        |
| 99      | UGBOT        | B.Sc. Botany (Honours)  | UGBOTDSE02  | Plant Breeding                                   | 2018-2019        |
| 100     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTDSE03  | Biostatistics                                    | 2018-2019        |
| 101     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTDSE04  | Applied Phycology                                | 2018-2019        |
| 102     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTDSE05  | Research Methodology                             | 2018-2019        |
| 103     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTSEC01  | Value Education and Indian Culture               | 2018-2019        |
| 104     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTSEC02  | Online Course (In collaboration with IIT Bombay) | 2018-2019        |
| 105     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTGE01   | Cryptogamic Botany                               | 2018-2019        |
| 106     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTGE02   | Biology of Vascular Plants                       | 2018-2019        |
| 107     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTGE03   | Plant Ecology, Anatomy and Embryology            | 2018-2019        |
| 108     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTGE04   | Plant Physiology and Biotechnology               | 2018-2019        |
| 109     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTAEC01  | English Communication                            | 2018-2019        |
| 110     | UGBOT        | B.Sc. Botany (Honours)  | UGBOTAEC02  | Environmental Science                            | 2018-2019        |
| 111     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC01   | Non-chordates I: Protists to pseudocoelomates    | 2018-2019        |
| 112     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC02   | Principles of ecology                            | 2018-2019        |

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|---------|--------------|-------------------------|-------------|---------------------------------------------------------|------------------|
| 113     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC03   | Non-chordates II: coelomates                            | 2018-2019        |
| 114     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC04   | Cell biology                                            | 2018-2019        |
| 115     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC05   | Diversity of chordates                                  | 2018-2019        |
| 116     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC06   | Animal physiology: Controlling and coordinating systems | 2018-2019        |
| 117     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC07   | Fundamentals of biochemistry                            | 2018-2019        |
| 118     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC08   | Comparative anatomy of vertebrates                      | 2018-2019        |
| 119     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC09   | Animal physiology: Life sustaining systems              | 2018-2019        |
| 120     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC10   | Biochemistry of metabolic processes                     | 2018-2019        |
| 121     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC11   | Molecular biology                                       | 2018-2019        |
| 122     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC12   | PRINCIPLES OF GENETICS                                  | 2018-2019        |
| 123     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC13   | Developmental biology                                   | 2018-2019        |
| 124     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOCC14   | Evolutionary biology                                    | 2018-2019        |
| 125     | UGZOO        | B.Sc. Zoology (Honours) | UGZOODSE_1  | Immunology                                              | 2018-2019        |
| 126     | UGZOO        | B.Sc. Zoology (Honours) | UGZOODSE_2A | Animal behaviour and chronobiology                      | 2018-2019        |
| 127     | UGZOO        | B.Sc. Zoology (Honours) | UGZOODSE_2B | Pollination biology                                     | 2018-2019        |
| 128     | UGZOO        | B.Sc. Zoology (Honours) | UGZOODSE_2C | Project work                                            | 2018-2019        |
| 129     | UGZOO        | B.Sc. Zoology (Honours) | UGZOODSE_3  | Biodiversity and wild life conservation                 | 2018-2019        |
| 130     | UGZOO        | B.Sc. Zoology (Honours) | UGZOODSE_4  | Computational biology                                   | 2018-2019        |
| 131     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOGE 1   | Animal diversity and systems                            | 2018-2019        |
| 132     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOGE 2   | Ecology, economic and medical zoology                   | 2018-2019        |
| 133     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOGE 3   | Biotechnology: microbes to animals                      | 2018-2019        |
| 134     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOGE 4   | Insect, vectors and diseases                            | 2018-2019        |
| 135     | UGZOO        | B.Sc. Zoology (Honours) | UGZOOSEC_1  | Value education & indian culture                        | 2018-2019        |



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|---------|--------------|------------------------------|--------------|------------------------------------------------------|------------------|
| 136     | UGZOO        | B.Sc. Zoology (Honours)      | UGZOOSEC_2   | Spoken Tutorial from IIT Bombay                      | 2018-2019        |
| 137     | UGZOO        | B.Sc. Zoology (Honours)      | UGZOOAECC 01 | English Communication                                | 2018-2019        |
| 138     | UGZOO        | B.Sc. Zoology (Honours)      | UGZOOAECC 02 | Environmental Science                                | 2018-2019        |
| 139     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC01    | Introduction to Microbiology and Microbial Diversity | 2018-2019        |
| 140     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC02    | Bacteriology                                         | 2018-2019        |
| 141     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC03    | Biochemistry                                         | 2018-2019        |
| 142     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC04    | Virology                                             | 2018-2019        |
| 143     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC05    | Microbial Physiology and Metabolism                  | 2018-2019        |
| 144     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC06    | Cell Biology                                         | 2018-2019        |
| 145     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC07    | Molecular Biology                                    | 2018-2019        |
| 146     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC08    | Microbial Genetics                                   | 2018-2019        |
| 147     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC09    | Environmental Microbiology                           | 2018-2019        |
| 148     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC10    | Food and Dairy Microbiology                          | 2018-2019        |
| 149     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC11    | Industrial Microbiology                              | 2018-2019        |
| 150     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC12    | Immunology                                           | 2018-2019        |
| 151     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC13    | Medical Microbiology                                 | 2018-2019        |
| 152     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBCC14    | Recombinant DNA Technology                           | 2018-2019        |
| 153     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBDSE01   | Inheritance Biology                                  | 2018-2019        |
| 154     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBDSE02   | Microbial Biotechnology                              | 2018-2019        |
| 155     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBDSE03   | Project Work                                         | 2018-2019        |
| 156     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBDSE04   | Instrumentation and Biotechniques                    | 2018-2019        |
| 157     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBDSE05   | Advances in Microbiology                             | 2018-2019        |
| 158     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBSEC01   | Value Education & Indian Culture                     | 2018-2019        |
| 159     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBSEC02   | Online course                                        | 2018-2019        |
| 160     | UGMCB        | B.Sc. Microbiology (Honours) | UGMCBGE01    | Bacteriology and Virology                            | 2018-2019        |



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|---------|--------------|----------------------------------|-------------|----------------------------------------------------|------------------|
| 161     | UGMCB        | B.Sc. Microbiology (Honours)     | UGMCBGE02   | Microbes in Environment                            | 2018-2019        |
| 162     | UGMCB        | B.Sc. Microbiology (Honours)     | UGMCBGE03   | Industrial & Food Microbiology                     | 2018-2019        |
| 163     | UGMCB        | B.Sc. Microbiology (Honours)     | UGMCBGE04   | Genetic Engineering and Biotechnology              | 2018-2019        |
| 164     | UGMCB        | B.Sc. Microbiology (Honours)     | UGMCBGE05   | Microbial Genetics and Molecular Biology           | 2018-2019        |
| 165     | UGMCB        | B.Sc. Microbiology (Honours)     | UGMCBAECC01 | English Communication                              | 2018-2019        |
| 166     | UGMCB        | B.Sc. Microbiology (Honours)     | UGMCBAECC02 | Environmental Science                              | 2018-2019        |
| 167     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC01   | Programming Fundamentals using C/C++: Theory & Lab | 2018-2019        |
| 168     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC02   | Computer System Architecture: Theory & Lab         | 2018-2019        |
| 169     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC03   | Programming in JAVA: Theory & Lab                  | 2018-2019        |
| 170     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC04   | Discrete Structures: Theory & Tutorial             | 2018-2019        |
| 171     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC05   | Data Structures: Theory & Lab                      | 2018-2019        |
| 172     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC06   | Operating Systems: Theory & Lab                    | 2018-2019        |
| 173     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC07   | Computer Networks: Theory & Lab                    | 2018-2019        |
| 174     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC08   | Design and Analysis of Algorithms: Theory & Lab    | 2018-2019        |
| 175     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC09   | Software Engineering: Theory & Lab                 | 2018-2019        |

  
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|---------|--------------|----------------------------------|-------------|-------------------------------------------|------------------|
| 176     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC10   | Database Management Systems: Theory & Lab | 2018-2019        |
| 177     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC11   | Internet Technologies: Theory & Lab       | 2018-2019        |
| 178     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC12   | Theory of Computation: Theory & Tutorial  | 2018-2019        |
| 179     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC13   | Artificial Intelligence: Theory & Lab     | 2018-2019        |
| 180     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSCC14   | Computer Graphics: Theory & Lab           | 2018-2019        |
| 181     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSDSE01  | Microprocessor: Theory & Lab              | 2018-2019        |
| 182     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSDSE02  | Numerical Methods: Theory & Lab           | 2018-2019        |
| 183     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSDSE03  | Cloud Computing: Theory & Lab             | 2018-2019        |
| 184     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSDSE04  | Machine Learning: Theory & Lab            | 2018-2019        |
| 185     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSDSE05  | Data Mining: Theory & Lab                 | 2018-2019        |
| 186     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSDSE06  | Dissertation or Project work              | 2018-2019        |
| 187     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSGE01   | Computer Fundamentals                     | 2018-2019        |
| 188     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSGE02   | Introduction to Database System           | 2018-2019        |
| 189     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSGE03   | Programming Fundamentals using C/C++      | 2018-2019        |

| Sl. No. | Program code | Program name                     | Course code | Course name                        | Year of offering |
|---------|--------------|----------------------------------|-------------|------------------------------------|------------------|
| 190     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSGE04   | Programming in Python              | 2018-2019        |
| 191     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSSEC1   | Value Education and Indian Culture | 2018-2019        |
| 192     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSSEC2   | Spoken Tutorial on python          | 2018-2019        |
| 193     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSAECC01 | English Communication              | 2018-2019        |
| 194     | UGCMS        | B.Sc. Computer Science (Honours) | UGCMSAECC02 | Environmental Science              | 2018-2019        |
| 195     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT01 | Inorganic Chemistry 01             | 2018-2019        |
| 196     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT02 | Organic Chemistry 01               | 2018-2019        |
| 197     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT03 | Physical Chemistry 01              | 2018-2019        |
| 198     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP01 | Inorganic Chemistry 01 Practical   | 2018-2019        |
| 199     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP02 | Organic Chemistry 01 Practical     | 2018-2019        |
| 200     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP03 | Physical Chemistry 01 Practical    | 2018-2019        |
| 201     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT04 | Inorganic Chemistry 02             | 2018-2019        |
| 202     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT05 | Organic Chemistry 02               | 2018-2019        |
| 203     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT06 | Physical Chemistry 02              | 2018-2019        |
| 204     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP04 | Inorganic Chemistry 02 Practical   | 2018-2019        |
| 205     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP05 | Organic Chemistry 02 Practical     | 2018-2019        |
| 206     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP06 | Physical Chemistry 02 Practical    | 2018-2019        |
| 207     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT07 | Inorganic Chemistry 03             | 2018-2019        |
| 208     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT08 | Organic Chemistry 03               | 2018-2019        |
| 209     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCT09 | Physical Chemistry 03              | 2018-2019        |
| 210     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP07 | Inorganic Chemistry 03 Practical   | 2018-2019        |
| 211     | PGCHEM       | M.Sc. Chemistry                  | PGCHEMMCP08 | Organic Chemistry 03 Practical     | 2018-2019        |



| Sl. No. | Program code | Program name    | Course code     | Course name                                         | Year of offering |
|---------|--------------|-----------------|-----------------|-----------------------------------------------------|------------------|
| 212     | PGCHEM       | M.Sc. Chemistry | PGCHEMMCP09     | Physical Chemistry 03 Practical                     | 2018-2019        |
| 213     | PGCHEM       | M.Sc. Chemistry | PGCHEMSCC       | Interdisciplinary Adv. Chemistry                    | 2018-2019        |
| 214     | PGCHEM       | M.Sc. Chemistry | PGCHEMOE01      | Supramolecular Chemistry                            | 2018-2019        |
| 215     | PGCHEM       | M.Sc. Chemistry | PGCHEMOE02      | Medicinal Chemistry                                 | 2018-2019        |
| 216     | PGCHEM       | M.Sc. Chemistry | PGCHEMME01      | Advanced Organic Chemistry 01                       | 2018-2019        |
| 217     | PGCHEM       | M.Sc. Chemistry | PGCHEMME02      | Advanced Organic Chemistry 02                       | 2018-2019        |
| 218     | PGCHEM       | M.Sc. Chemistry | PGCHEMME03      | Advanced Inorganic Chemistry 01                     | 2018-2019        |
| 219     | PGCHEM       | M.Sc. Chemistry | PGCHEMME04      | Advanced Inorganic Chemistry 02                     | 2018-2019        |
| 220     | PGCHEM       | M.Sc. Chemistry | PGCHEMME05      | Advanced Physical Chemistry 01                      | 2018-2019        |
| 221     | PGCHEM       | M.Sc. Chemistry | PGCHEMME06      | Advanced Physical Chemistry 02                      | 2018-2019        |
| 222     | PGCHEM       | M.Sc. Chemistry | PGCHEMOT01      | Project and Presentation                            | 2018-2019        |
| 223     | PGCHEM       | M.Sc. Chemistry | PGCHEMOT02      | Grand Viva and Seminar                              | 2018-2019        |
| 224     | PGCHEM       | M.Sc. Chemistry | PGCHEMSOC01     | Yoga                                                | 2018-2019        |
| 225     | PGCHEM       | M.Sc. Chemistry | PGCHEMSOC02     | Communicative English                               | 2018-2019        |
| 226     | PGCHEM       | M.Sc. Chemistry | PGCHEMSOC03     | VECC                                                | 2018-2019        |
| 227     | PGCHEM       | M.Sc. Chemistry | PGCHEMSOC04     | Computer For Chemists                               | 2018-2019        |
| 228     | PGBOT        | M.Sc. Botany    | PGBOTCC1.1 (Th) | Phycology + Microbiology                            | 2018-2019        |
| 229     | PGBOT        | M.Sc. Botany    | PGBOTCC1.2 (Th) | Mycology + Plant Pathology                          | 2018-2019        |
| 230     | PGBOT        | M.Sc. Botany    | PGBOTCC1.3 (Th) | Biostatistics + Biophysics                          | 2018-2019        |
| 231     | PGBOT        | M.Sc. Botany    | PGBOTCC1.4 (Th) | Ecology + Evolution                                 | 2018-2019        |
| 232     | PGBOT        | M.Sc. Botany    | PGBOTCC1.5 (Pr) | Phycology + Microbiology                            | 2018-2019        |
| 233     | PGBOT        | M.Sc. Botany    | PGBOTCC1.6 (Pr) | Mycology + Plant Pathology                          | 2018-2019        |
| 234     | PGBOT        | M.Sc. Botany    | PGBOTCC2.1 (Th) | Plant Anatomy + Developmental Biology               | 2018-2019        |
| 235     | PGBOT        | M.Sc. Botany    | PGBOTCC2.2 (Th) | Taxonomy of Angiosperms + Embryology of Seed Plants | 2018-2019        |

| Sl. No. | Program code | Program name | Course code      | Course name                                                 | Year of offering |
|---------|--------------|--------------|------------------|-------------------------------------------------------------|------------------|
| 236     | PGBOT        | M.Sc. Botany | PGBOTCC2.3 (Th)  | Biochemistry & Metabolism + Plant Physiology                | 2018-2019        |
| 237     | PGBOT        | M.Sc. Botany | PGBOTCC2.4 (Th)  | Environmental Science + System Biology                      | 2018-2019        |
| 238     | PGBOT        | M.Sc. Botany | PGBOTCC2.5 (Pr)  | Taxonomy + Plant Anatomy                                    | 2018-2019        |
| 239     | PGBOT        | M.Sc. Botany | PGBOTCC2.6 (Pr)  | Biochemistry + Plant Physiology                             | 2018-2019        |
| 240     | PGBOT        | M.Sc. Botany | PGBOTCC3.1 (Th)  | Cell & Molecular Biology                                    | 2018-2019        |
| 241     | PGBOT        | M.Sc. Botany | PGBOTCC3.2 (Th)  | Genetics & Genomics                                         | 2018-2019        |
| 242     | PGBOT        | M.Sc. Botany | PGBOTCC3.3 (Th)  | Plant Biotechnology & Recombinant DNA technology            | 2018-2019        |
| 243     | PGBOT        | M.Sc. Botany | PGBOTCC3.4 (Th)  | Allied Elective                                             | 2018-2019        |
| 244     | PGBOT        | M.Sc. Botany | PGBOTCC3.5 (Pr)  | Plant Biotechnology                                         | 2018-2019        |
| 245     | PGBOT        | M.Sc. Botany | PGBOTCC3.6 (Pr)  | Cytology and Molecular Biology                              | 2018-2019        |
| 246     | PGBOT        | M.Sc. Botany | PGBOTCC4.1 (Th)  | Research Methodology & Bio-Instrumentation                  | 2018-2019        |
| 247     | PGBOT        | M.Sc. Botany | PGBOTCC4.2 (Th)  | Phytochemistry & Herbal Technology                          | 2018-2019        |
| 248     | PGBOT        | M.Sc. Botany | PGBOTME4.3A (Th) | Genetics and Plant Biotechnology - I (Major Elective)       | 2018-2019        |
| 249     | PGBOT        | M.Sc. Botany | PGBOTME4.4A (Pr) | Genetics and Plant Biotechnology - I (Major Elective)       | 2018-2019        |
| 250     | PGBOT        | M.Sc. Botany | PGBOTME4.3B (Th) | Diversity and Ecology of algae (Major Elective)             | 2018-2019        |
| 251     | PGBOT        | M.Sc. Botany | PGBOTME4.4B (Pr) | Advanced phycology and algal biotechnology (Major Elective) | 2018-2019        |
| 252     | PGBOT        | M.Sc. Botany | PGBOTME4.3C (Th) | Taxonomy of Angiosperms (Major Elective)                    | 2018-2019        |



| Sl. No. | Program code | Program name      | Course code      | Course name                                                                         | Year of offering |
|---------|--------------|-------------------|------------------|-------------------------------------------------------------------------------------|------------------|
| 253     | PGBOT        | M.Sc. Botany      | PGBOTME4.4C (Pr) | Taxonomy of Angiosperms (Major Elective)                                            | 2018-2019        |
| 254     | PGBOT        | M.Sc. Botany      | PGBOTSOC1        | Yoga                                                                                | 2018-2019        |
| 255     | PGBOT        | M.Sc. Botany      | PGBOTSOC2        | Communicative English                                                               | 2018-2019        |
| 256     | PGBOT        | M.Sc. Botany      | PGBOTSOC3        | Value Education and Indian Culture                                                  | 2018-2019        |
| 257     | PGBOT        | M.Sc. Botany      | PGBOTSOC4        | IPR/ Biosafety management / Post-harvest management of crops                        | 2018-2019        |
| 258     | PGMATH       | M.Sc. Mathematics | PGMATHCC101      | Algebra-I                                                                           | 2018-2019        |
| 259     | PGMATH       | M.Sc. Mathematics | PGMATHCC102      | Real Analysis                                                                       | 2018-2019        |
| 260     | PGMATH       | M.Sc. Mathematics | PGMATHCC103      | Complex Analysis                                                                    | 2018-2019        |
| 261     | PGMATH       | M.Sc. Mathematics | PGMATHCC104      | Ordinary & Partial Differential Equations                                           | 2018-2019        |
| 262     | PGMATH       | M.Sc. Mathematics | PGMATHCC105      | Numerical Analysis                                                                  | 2018-2019        |
| 263     | PGMATH       | M.Sc. Mathematics | PGMATHCC106      | Computer Programming in C++ and Numerical Practical using GNU Octave/Scilab /Matlab | 2018-2019        |
| 264     | PGMATH       | M.Sc. Mathematics | PGMATHSS01       | YOGA                                                                                | 2018-2019        |
| 265     | PGMATH       | M.Sc. Mathematics | PGMATHCC201      | Algebra-II                                                                          | 2018-2019        |
| 266     | PGMATH       | M.Sc. Mathematics | PGMATHCC202      | Measure and Integration                                                             | 2018-2019        |
| 267     | PGMATH       | M.Sc. Mathematics | PGMATHCC203      | General Topology                                                                    | 2018-2019        |
| 268     | PGMATH       | M.Sc. Mathematics | PGMATHCC204      | Classical Mechanics & Theory of Relativity                                          | 2018-2019        |
| 269     | PGMATH       | M.Sc. Mathematics | PGMATHCC205      | Linear Algebra & Multivariate Calculus                                              | 2018-2019        |
| 270     | PGMATH       | M.Sc. Mathematics | PGMATHCC206      | Integral transforms and Integral Equations                                          | 2018-2019        |
| 271     | PGMATH       | M.Sc. Mathematics | PGMATHSS02       | Communicative English                                                               | 2018-2019        |



| Sl. No. | Program code | Program name         | Course code | Course name                               | Year of offering |
|---------|--------------|----------------------|-------------|-------------------------------------------|------------------|
| 272     | PGMATH       | M.Sc. Mathematics    | PGMATHCC301 | Functional Analysis                       | 2018-2019        |
| 273     | PGMATH       | M.Sc. Mathematics    | PGMATHCC302 | Dynamical System Analysis                 | 2018-2019        |
| 274     | PGMATH       | M.Sc. Mathematics    | PGMATHCE301 | Advanced Real Analysis-I                  | 2018-2019        |
| 275     | PGMATH       | M.Sc. Mathematics    | PGMATHCE302 | Advanced Complex Analysis-I               | 2018-2019        |
| 276     | PGMATH       | M.Sc. Mathematics    | PGMATHCE303 | Algebraic Topology-I                      | 2018-2019        |
| 277     | PGMATH       | M.Sc. Mathematics    | PGMATHCE304 | Differential Manifold-I                   | 2018-2019        |
| 278     | PGMATH       | M.Sc. Mathematics    | PGMATHCE305 | Cosmology-I                               | 2018-2019        |
| 279     | PGMATH       | M.Sc. Mathematics    | PGMATHCE306 | Mathematical Biology-I                    | 2018-2019        |
| 280     | PGMATH       | M.Sc. Mathematics    | PGMATHCE307 | Operation Research-I                      | 2018-2019        |
| 281     | PGMATH       | M.Sc. Mathematics    | PGMATHCE308 | Continuum Mechanics(Solid)-I              | 2018-2019        |
| 282     | PGMATH       | M.Sc. Mathematics    | PGMATHAE301 | Programming in PYTHON & LaTeX             | 2018-2019        |
| 283     | PGMATH       | M.Sc. Mathematics    | PGMATHSS03  | VE & IC                                   | 2018-2019        |
| 284     | PGMATH       | M.Sc. Mathematics    | PGMATHCC401 | Number theory                             | 2018-2019        |
| 285     | PGMATH       | M.Sc. Mathematics    | PGMATHCC402 | Discrete Mathematics                      | 2018-2019        |
| 286     | PGMATH       | M.Sc. Mathematics    | PGMATHCE401 | Advanced Real Analysis-II                 | 2018-2019        |
| 287     | PGMATH       | M.Sc. Mathematics    | PGMATHCE402 | Advanced Complex Analysis-II              | 2018-2019        |
| 288     | PGMATH       | M.Sc. Mathematics    | PGMATHCE403 | Algebraic Topology-II                     | 2018-2019        |
| 289     | PGMATH       | M.Sc. Mathematics    | PGMATHCE404 | Differential Manifold-II                  | 2018-2019        |
| 290     | PGMATH       | M.Sc. Mathematics    | PGMATHCE405 | Cosmology-II                              | 2018-2019        |
| 291     | PGMATH       | M.Sc. Mathematics    | PGMATHCE406 | Mathematical Biology-II                   | 2018-2019        |
| 292     | PGMATH       | M.Sc. Mathematics    | PGMATHCE407 | Operation Research-II                     | 2018-2019        |
| 293     | PGMATH       | M.Sc. Mathematics    | PGMATHCE408 | Continuum Mechanics(Fluid)-II             | 2018-2019        |
| 294     | PGMATH       | M.Sc. Mathematics    | PGMATHCC403 | Project Work** (Viva Voce + Dissertation) | 2018-2019        |
| 295     | PGMATH       | M.Sc. Mathematics    | PGMATHSS04  | Seminar Presentation                      | 2018-2019        |
| 296     | PHDMATH      | Ph.D. in Mathematics | PHDMATH01   | Research Methodology                      | 2018-2019        |



| Sl. No. | Program code | Program name         | Course code | Course name                         | Year of offering |
|---------|--------------|----------------------|-------------|-------------------------------------|------------------|
| 297     | PHDMATH      | Ph.D. in Mathematics | PHDMATH02   | Computer Applications               | 2018-2019        |
| 298     | PHDMATH      | Ph.D. in Mathematics | PHDMATH03   | Literature review                   | 2018-2019        |
| 299     | PHDMATH      | Ph.D. in Mathematics | PHDMATH04   | Algebraic Topology                  | 2018-2019        |
| 300     | PHDMATH      | Ph.D. in Mathematics | PHDMATH05   | Complex Analysis                    | 2018-2019        |
| 301     | PHDMATH      | Ph.D. in Mathematics | PHDMATH06   | Cosmology                           | 2018-2019        |
| 302     | PHDBOT       | Ph.D. in Botany      | PHDBOT01    | Research Methodology                | 2018-2019        |
| 303     | PHDBOT       | Ph.D. in Botany      | PHDBOT02    | Computer Applications               | 2018-2019        |
| 304     | PHDBOT       | Ph.D. in Botany      | PHDBOT03    | Literature Survey and Related Topic | 2018-2019        |
| 305     | PHDBOT       | Ph.D. in Botany      | PHDBOT04    | Advance Level Elective Course       | 2018-2019        |

  
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