



DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIRST YEAR

| | FIRST SEMESTER | | | | | | |
|----------|------------------------|-----|------|----|----|----|----|
| COURSE | COURSE NAME | C/E | EDIT | * | | | |
| CODE | COCADETALAD | O/L | TH | AP | TO | CR | EC |
| MBG-6501 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 |
| MBG-6601 | THESIS PREPARATION | С | 0 | 1 | 1 | 0 | 1 |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 |
| | | | | | | | |
| TOI | TOPLAM 20 1 21 12 3 | | | | | | 30 |

| | SECOND SEMESTER | | | | | | | | |
|--------------------|------------------------|-----|----------------|----|----|----|----|--|--|
| COURSE | COURSE NAME | C/E | COURSE CREDIT* | | | | | | |
| CODE | COOKSENIAME | C/E | TH | AP | то | CR | EC | | |
| MBG-6502 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 | | |
| MBG-6602 | THESIS PREPARATION | C | 0 | 1 | 1 | 0 | 1 | | |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 | | |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 | | |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 | | |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 | | |
| | | | | | | | | | |
| TOTAL 20 1 21 12 : | | | | | 30 | | | | |





DOCTOR OF PHILOSOPHY (PhD) PROGRAM

SECOND YEAR

| | THIRD SEMESTER | | | | | | | | |
|----------|------------------------|-----|----------------|----|----|----|----|--|--|
| COURSE | COURSE NAME | C/E | COURSE CREDIT* | | | | | | |
| CODE | | | TH | AP | TO | CR | EC | | |
| MBG-6503 | DIRECTED FIELD STUDIES | C | 8 | 0 | 8 | 0 | 9 | | |
| MBG-6603 | THESIS PREPARATION | С | 0 | 1 | 1 | 0 | 1 | | |
| MBG-6701 | SEMINAR | С | 0 | 2 | 2 | 0 | 5 | | |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 | | |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 | | |
| | ELECTIVE COURSE | Е | 3 | 0 | 3 | 3 | 5 | | |
| | | | | | | | | | |
| TOTA | . L | | 17 | 3 | 20 | 9 | 30 | | |

| | FOURTH SEMESTER | | | | | | | | | |
|---------------|------------------------|-----|----------------|----|----|----|----|--|--|--|
| COURSE | COURSE NAME | C/E | COURSE CREDIT* | | | | | | | |
| CODE | COOKSENIAME | CIE | TH | AP | TO | CR | EC | | | |
| MBG-6504 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 | | | |
| MBG-6604 | THESIS | C | 0 | 1 | 1 | 0 | 21 | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| TOTAL 8 1 9 0 | | | | | | 30 | | | | |





DOCTOR OF PHILOSOPHY (PhD) PROGRAM

THIRD YEAR

| | FIFTH SEMESTER | | | | | | |
|----------|------------------------|-----|----|------|-------|------|----|
| COURSE | COURSE NAME | C/E | (| COUR | SE CR | EDIT | * |
| CODE | COURSE NAME | C/E | TH | AP | TO | CR | EC |
| MBG-6505 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 |
| MBG-6605 | THESIS | C | 0 | 1 | 1 | 0 | 21 |
| | | | | | | | |
| TOTA | TOTAL | | | 1 | 9 | 0 | 30 |

| | SIXTH SEMESTER | | | | | | |
|----------|------------------------|-----|----|------|-------|------|----|
| COURSE | COURSE NAME | C/E | (| COUR | SE CR | EDIT | * |
| CODE | COOKSENIAME | O/L | TH | AP | ТО | CR | EC |
| MBG-6506 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 |
| MBG-6606 | THESIS | C | 0 | 1 | 1 | 0 | 21 |
| | | | | | | | |
| TOTA | TOTAL | | | 1 | 9 | 0 | 30 |

FOURTH YEAR

| | SEVENTH SEMESTER | | | | | | | | | | |
|----------|------------------------|-----|----|------|-------|--------|----|--|--|--|--|
| COURSE | COURSE NAME | C/E | (| COUR | SE CR | REDIT* | | | | | |
| CODE | COURSE NAME | C/E | TH | AP | то | CR | EC | | | | |
| MBG-6507 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 | | | | |
| MBG-6607 | THESIS | С | 0 | 1 | 1 | 0 | 21 | | | | |
| | | | | | | | | | | | |
| TOTA | TOTAL | | | 1 | 9 | 0 | 30 | | | | |

| | EIGHTH SEMESTER | | | | | | | | | | |
|----------|------------------------|-----|----|------|-------|------|----|--|--|--|--|
| COURSE | COURSE NAME | C/E | (| COUR | SE CR | EDIT | * | | | | |
| CODE | COOKSENAME | CIE | TH | AP | то | CR | EC | | | | |
| MBG-6508 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 | | | | |
| MBG-6608 | THESIS | С | 0 | 1 | 1 | 0 | 21 | | | | |
| | | | | | | | | | | | |
| TOTA | TOTAL | | | 1 | 9 | 0 | 30 | | | | |





DOCTOR OF PHILOSOPHY (PhD) PROGRAM

FIFTH YEAR

| | NINTH SEMESTER | | | | | | | | | | |
|----------|------------------------|-----|----|------|-------|------|----|--|--|--|--|
| COURSE | COURSE NAME | C/E | (| COUR | SE CR | EDIT | * | | | | |
| CODE | COURSE NAME | C/E | TH | AP | TO | CR | EC | | | | |
| MBG-6509 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 | | | | |
| MBG-6609 | THESIS | C | 0 | 1 | 1 | 0 | 21 | | | | |
| | | | | | | | | | | | |
| TOTA | TOTAL | | | 1 | 9 | 0 | 30 | | | | |

| | TENTH SEMESTER | | | | | | |
|----------|------------------------|-----|----|------|-------|------|----|
| COURSE | COURSE NAME | C/E | (| COUR | SE CR | EDIT | * |
| CODE | COOKSENIAME | CIE | TH | AP | то | CR | EC |
| MBG-6510 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 |
| MBG-6610 | THESIS | C | 0 | 1 | 1 | 0 | 21 |
| | | | | | | | |
| TOTA | TOTAL | | | 1 | 9 | 0 | 30 |

SIXTH YEAR

| | ELEVENTH SEMESTER | | | | | | | | | | |
|----------|------------------------|-----|----|------|-------|------|----|--|--|--|--|
| COURSE | COURSE NAME | C/E | (| COUR | SE CR | EDIT | * | | | | |
| CODE | COURSE NAME | C/E | ТН | AP | то | CR | EC | | | | |
| MBG-6511 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 | | | | |
| MBG-6611 | THESIS | С | 0 | 1 | 1 | 0 | 21 | | | | |
| | | | | | | | | | | | |
| TOTA | TOTAL | | | 1 | 9 | 0 | 30 | | | | |

| | TWELFTH SEMESTER | | | | | | | | | | |
|----------|------------------------|------|------|-----|----|----|----|--|--|--|--|
| COURSE | COURSE NAME C | CATE | EDIT | IT* | | | | | | | |
| CODE | COURSE NAME | C/E | TH | AP | то | CR | EC | | | | |
| MBG-6512 | DIRECTED FIELD STUDIES | С | 8 | 0 | 8 | 0 | 9 | | | | |
| MBG-6612 | THESIS | С | 0 | 1 | 1 | 0 | 21 | | | | |
| | | | | | | | | | | | |
| TOTA | TOTAL | | | | 9 | 0 | 30 | | | | |





GRADUATE PROGRAMS

| COURSE CODE | COURSE NAME | C/E | (| COURSE CREDIT* | | | | | |
|----------------|---|-----|----|----------------|----|----|----|--|--|
| | COURSE NAME | C/E | TH | AP | то | CR | EC | | |
| FBE-5001 | SCIENTIFIC RESEARCH AND METHODS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5001 | HERPETOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5002 | WATER POLLUTIONS AND ITS CONTROLS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5003 | BIOLOGICAL PHOTOGRAPY AND DRAWING TECHNIQUES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5004 | RESEARCH AND WRITING UP TECHNIQUES IN BIOLOGICAL SCIENCES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5005 | STATISTICS FOR BIOLOGICAL SCIENCE | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5006 | ENZYMES AND HORMONES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5007 | CELLULAR SIGNALING MECHANISMS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5008 | THE CONTROL OF CELL DIVISION | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5009 | USEFUL PLANTS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5010 | HERBARIUM TECHNIQUES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5011 | PLANT TAXONOMY APPLICATIONS I | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5012 | PLANT TAXONOMY APPLICATIONS II | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5013 | ETHNOBOTANY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5014 | MICROBIAL BIOTECHNOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5015 | METABOLISM OF PLANT CELL | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5016 | PLANT GROWTH REGULATORS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5017 | PLANT BREEDING TECHNIQUES AND APPLICATIONS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5018 | INDUSTRIAL MICROBIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5019 | STERİZLİZATİON AND DISINFECTION | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5020 | DIAGNOSIS AND METHODS USED IN MICROBIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5021 | PRINCIPLES OF TAXONOMIC ZOOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5022 | LIMNOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5023 | ACAROLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5024 | INVERTEBRATE ONTOGENESIS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5025 | ICHTHYOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5026 | SPECIAL PARASİTOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5027 | HELMINTHOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5028 | ZOOLOGICAL PREPARATION TECHNIQUES | Е | 3 | 0 | 3 | 3 | 5 | | |





GRADUATE PROGRAMS

| COURSE | COURSE NAME | C/E | COURSE CREDIT* | | | | | | |
|----------|--|-----|----------------|----|----|----|----|--|--|
| CODE | CODE COURSE NAME | C/E | TH | AP | то | CR | EC | | |
| MBG-5029 | DNA MUTAGENESIS, AND DNA REPAIR MECHANISM | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5030 | CELL CULTURE TECHNIQUES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5031 | DNA FINGERPRINTING | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5032 | THE RELATIONSHIP BETWEEN VEGETATION SOIL | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5033 | SPECIAL TYPES OF VEGETATION | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5034 | POLLEN MORPHOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5035 | COMPARATIVE ANATOMY OF PLANTS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5036 | THE PREPARATION TECHNIQUES IN SYSTEMATIC BOTANY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5037 | PLANT CHEMISTRY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5038 | GERMINATION PHYSIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5039 | GENETIC ENGINEERING APPLICATIONS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5040 | ADVANCED PLANT ECOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5041 | ADVANCED BIOLOGY OF FOOD | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5042 | ADVANCED PALINOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5043 | COMPUTER APPLIED BIOSTATISTICS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5044 | MOLECULAR ECOLOGY AND TRACKING TECHNIQUES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5045 | ECOPATHOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5046 | PLANT MOLECULAR BIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5047 | IN ZOOLOGY MOLECULAR APPLICATIONS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5048 | EFFECT OF PLANT HORMONES AND MOLECULAR MECHANISMS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5049 | SECONDARY METABOLITES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5050 | PROTEINS AND ENZYMES | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5051 | BIOLOGY AND ECOLOGY OF RIVERS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-5052 | ECOLOGY OF INSECTS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-6001 | MOLECULAR BASIS OF CANCER | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-6002 | PHARMACOGENOMICS AND GENOTOXICITY | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-6003 | PCR-BASED GENETIC ANALYSIS AND GENETIC ANALAYSIS METHODS | Е | 3 | 0 | 3 | 3 | 5 | | |
| MBG-6004 | TECHNOLOGY FOR PLANT PROTECTION | Е | 3 | 0 | 3 | 3 | 5 | | |





GRADUATE PROGRAMS

| COURSE CODE | COURSE NAME | C/E | (| COURSE CREDIT* | | | | | | |
|----------------|--|-----|----|----------------|----|----|----|--|--|--|
| | COURSE NAME | C/E | TH | AP | то | CR | EC | | | |
| MBG-6005 | TAXONOMICALTERMINOLOGY IN BOTANY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6006 | ADVANCED ENVIRONMENTAL BIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6007 | PLANT MOLECULAR SYSTEMATIC | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6008 | PLANT GENOMICS AND PROTEOMICS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6009 | PLANT GROWTH REGULATORS AND MOLECULAR MECHANISMS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6010 | PLANT CHEMISTRY AND MOLECULAR BIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6011 | MOLECULAR BASIS OF STRESS PHYSIOLOGY OF PLANTS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6012 | AQUATIC ENTOMOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6013 | COMPUTER APPLIED STATISTIC | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6014 | MICROBIAL ECOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6015 | SYSTEMATIC ZOOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6016 | BIOCLIMATOLOGY AND METHODS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6017 | PLANT DIVERSITY IN AQUATIC AREAS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6018 | GROWTH AND DEVELOPMENT PHYSIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6019 | RECOMBINANT DNA TECHNOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6020 | METHODS ON GENETIC TOXICOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6021 | PLANT SECONDER METHOBOLİTES | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6022 | PROCARYOTIC GENE EXPRESSION | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6023 | BIOMATHERİALS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6024 | MICROBIAL SYSTEMATICS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6025 | BIOCHEMISTRY OF FREE RADICALS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6026 | BIOCHEMISTRY OF CARCINOGEN AND MUTAGENS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6027 | ADVANCED MOLECULAR BIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6028 | SPECIAL SUBJECTS IN ECOLOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6029 | BIOAVAILABILITY OF NATURAL PLANTS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6030 | COMPUTER APPLIED BIOINFORMATICS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6031 | WILDLIFE DISEASE MOLECULAR DIAGNOSIS | Е | 3 | 0 | 3 | 3 | 5 | | | |
| MBG-6032 | EPIDEMILOGY | Е | 3 | 0 | 3 | 3 | 5 | | | |





GRADUATE PROGRAMS

| COURSE NAME CODE | C/E | COURSE CREDIT* | | | | | | |
|------------------|--|----------------|----|----|----|----|----|--|
| | COURSE NAME | C/E | TH | AP | TO | CR | EC | |
| MBG-6033 | PLANT GROWTH | Е | 3 | 0 | 3 | 3 | 5 | |
| MBG-6034 | CURRENT TOPICS IN MOLECULAR BIOLOGY | Е | 3 | 0 | 3 | 3 | 5 | |
| MBG-6035 | MOLECULAR TAXONOMY METHODS IN ZOOLOGY | Е | 3 | 0 | 3 | 3 | 5 | |
| MBG-6036 | POLYAMINES AND CANCER | Е | 3 | 0 | 3 | 3 | 5 | |
| MBG-6037 | CELL CYCLE AND APOPTOSİS | Е | 3 | 0 | 3 | 3 | 5 | |
| MBG-6038 | DNA MARKERS AND PLANT BREEDING | Е | 3 | 0 | 3 | 3 | 5 | |
| MBG-6039 | PLANT SIGNAL TRANSDUCTION AN GENE REGULATION | Е | 3 | 0 | 3 | 3 | 5 | |
| MBG-6040 | MOLECULAR GENETICS OF PLANT DEVELOPMENT | E | 3 | 0 | 3 | 3 | 5 | |
| EGT-6001 | DEVELOPMENT AND LEARNING | Е | 3 | 0 | 3 | 3 | 5 | |
| EGT-6002 | INSTRUCTIONAL PLANNING AND EVALUATION | Е | 3 | 0 | 3 | 3 | 5 | |