

MS and MBA Course Contents

Prepared by
Concern Departments

Compiled by
Postgraduate Studies

Postgraduate Studies
Patuakhali Science and Technology University
Dumki, Patuakhali-8602, Bangladesh

December 2021



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

List of MS and MBA Course Contents

Sl. No.	Subject	Alphabetic Code	Program	Department	Page No.
01.	Agricultural Botany	AGB	MS	Agricultural Botany	01
02.	Agricultural Chemistry	ACM	MS	Agricultural Chemistry	02
03.	Agricultural Extension and Rural Development	ARD	MS	Agricultural Extension and Rural Development	03
04.	Agroforestry	AGF	MS	Agroforestry	04
05.	Agronomy	AGR	MS	Agronomy	05
06.	Biotechnology	BTH	MS	Biotechnology	06
07.	Entomology	ENT	MS	Entomology	07
08.	Horticulture	HRT	MS	Horticulture	08
09.	Plant Pathology	PLP	MS	Plant Pathology	09
10.	Soil Science	SSC	MS	Soil Science	10
11.	Electrical and Electronic Engineering	EEE	MS	Electrical and Electronic Engineering	11
12.	Computer Science and Information Technology	CIT	MS	Computer Science and Information Technology	12
13.	Accounting and Information Systems	AIS	MBA	Accounting and Information Systems	13
14.	Finance	FIN	MBA	Finance and Banking	14
15.	Human Resources Management	HRM	MBA	Management Studies	15
16.	Marketing	MKT	MBA	Marketing	16
17.	Anatomy	VAH	MS	Anatomy and Histology	17
18.	Physiology	PSY	MS	Physiology and Pharmacology	18
19.	Pharmacology	PHA	MS	Physiology and Pharmacology	19
20.	Medicine	VMM	MS	Medicine, Surgery and Obstetrics	20
21.	Surgery	VSS	MS	Medicine, Surgery and Obstetrics	21
22.	Theriogenology	VST	MS	Medicine, Surgery and Obstetrics	22
23.	Microbiology	MIC	MS	Microbiology and Public Health	23
24.	Veterinary Public Health and Food Hygiene	VPH	MS	Microbiology and Public Health	24
25.	Pathology	VPT	MS	Pathology and Parasitology	25
26.	Parasitology	VPR	MS	Pathology and Parasitology	26
27.	Poultry Science	PSC	MS	Poultry Science	27
28.	Aquaculture	AQC	MS	Aquaculture	28
29.	Fisheries Biology and Genetics	FBG	MS	Fisheries Biology and Genetics	29
30.	Fisheries Management	FMN	MS	Fisheries Management	30
31.	Fisheries Technology	FST	MS	Fisheries Technology	31
32.	Biochemistry and Food Analysis	BCM	MS	Biochemistry and Food Analysis	32
33.	Community Health and Hygiene	CHH	MS	Community Health and Hygiene	33
34.	Environmental Sanitation	EHS	MS	Environmental Sanitation	34
35.	Food Microbiology	FMB	MS	Food Microbiology	35
36.	Digester Resilience and Engineering	DRE	MS	Digester Resilience and Engineering	36
37.	Disaster Risk Science and Sustainability	DRS	MS	Digester Risk Management	37
38.	Disaster Science and Emergency Management	ERM	MS	Emergency Management	38
39.	Environmental Science	ENS	MS	Environmental Science	39
40.	Geo-information Science and Earth Observation	GEO	MS	Geo-information Science and Earth Observation	40



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

01. Course Code and Title Program: MS

Name of the subject : Agricultural Botany
Name of the department : Agricultural Botany
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGB	5101	Plant Morphology and Phylogeny	02	Compulsory
AGB	5102	Plant Physiology	02	Compulsory
AGB	5103	Plant Ecology	02	Compulsory
AGB	5104	Environmental Pollution and Agriculture	02	Compulsory
AGB	5105	Economic Botany	02	Elective
AGB	5106	Developmental Plant Physiology	02	Elective
AGB	5107	Plant Tissue Culture	02	Elective
AGB	5108	Plant Nutrition	02	Elective
AGB	5109	Crop Physiology	02	Elective
AGB	5110	Plant Biodiversity and Conservation	02	Elective
AGB	5111	Research Methodology	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGB	5201	Plant Anatomy	02	Compulsory
AGB	5202	Plant Metabolism	02	Compulsory
AGB	5203	Agroclimatology	02	Compulsory
AGB	5204	Stress Physiology	02	Compulsory
AGB	5205	Plant Embryology	02	Elective
AGB	5206	Development Plant Anatomy	02	Elective
AGB	5207	Crop Ecology	02	Elective
AGB	5208	Crop Biotechnology	02	Elective
AGB	5209	Phytochemical Ecology	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGB	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
AGB	5302	Thesis Evaluation	05	Compulsory
AGB	5303	Thesis Defense	03	Compulsory

02. Course Code and Title



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

Program: MS

Name of the subject : Agricultural Chemistry
Name of the department : Agricultural Chemistry
Total compulsory course : 16 Credit hours
Total Elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January- June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ACM	5101	Food Preservation and Processing Chemistry	02	Compulsory
ACM	5102	Pesticide Chemistry	02	Compulsory
ACM	5103	Chemistry & Technology of Agricultural Crops	02	Compulsory
ACM	5104	Environmental Chemistry	02	Compulsory
ACM	5105	Chemistry of Manures and Bio-fertilizer	02	Elective
ACM	5106	Research Methodology	02	Elective
ACM	5107	Nuclear Chemistry	02	Elective
ACM	5108	Phyto Ecological Chemistry	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ACM	5201	Fertilizer Chemistry and Technology	02	Compulsory
ACM	5202	Instrumental Methods of Analysis	02	Compulsory
ACM	5203	Analysis of Agro Products	02	Compulsory
ACM	5204	Water Science	02	Compulsory
ACM	5205	Waste Management and Clean Technology	02	Elective
ACM	5206	Mineral Nutrition and Plant Growth	02	Elective
ACM	5207	Chemistry of Plant Products	02	Elective
ACM	5208	Soil and Colloid Chemistry	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ACM	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
ACM	5302	Thesis Evaluation	05	Compulsory
ACM	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

03. Course Code and Title

Program: MS

Name of the subject : Agricultural Extension and Rural Development
Name of the department : Agricultural Extension and Rural Development
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ARD	5101	Extension Program Development	02	Compulsory
ARD	5102	Extension and Development Social Psychology	02	Compulsory
ARD	5103	Communication and Information Technology	02	Compulsory
ARD	5104	Social and Educational Research Methodology	02	Compulsory
ARD	5105	Gender and Target Groups Development	02	Elective
ARD	5106	Extension Administration and Management	02	Elective
ARD	5107	Environmental Studies and Disaster Management	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ARD	5201	Rural Development Studies	02	Compulsory
ARD	5202	Technology Transfer	02	Compulsory
ARD	5203	Training Management	02	Compulsory
ARD	5204	Extension and Development Project Management	02	Compulsory
ARD	5205	Farming System Research and Sustainable Agriculture	02	Elective
ARD	5206	Group Dynamics and Leadership in Extension	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ARD	5301	Research work (Satisfactory/Unsatisfactory)	08	Compulsory
ARD	5302	Thesis Evaluation	05	Compulsory
ARD	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

04. Course Code and Title Program: MS

Name of the subject : Agroforestry
Name of the department : Agroforestry
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January- June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGF	5101	Agroforestry Systems and Practices	02	Compulsory
AGF	5102	Agroforest Botany	02	Compulsory
AGF	5103	Component Interaction in Agroforestry	02	Compulsory
AGF	5104	Agroforestry Research Methodology	02	Compulsory
AGF	5105	Silvicultural Practices in Agroforestry	02	Elective
AGF	5106	Medicinal Plants and Non-wood Products	02	Elective
AGF	5107	Soil Productivity and Conservation in Agroforestry	02	Elective
AGF	5108	Pest Management in Agroforestry	02	Elective
AGF	5109	Tree Physiology	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGF	5201	Agroforestry Management Technology	02	Compulsory
AGF	5202	Social Forestry and Rural Development	02	Compulsory
AGF	5203	Forest Ecology	02	Compulsory
AGF	5204	Water Conservation and Watershed Management	02	Compulsory
AGF	5205	Homestead Agroforestry and Management	02	Elective
AGF	5206	Mangrove Ecosystem and Management	02	Elective
AGF	5207	Wood Quality and Wood Technology	02	Elective
AGF	5208	Environmental Protection in Agroforestry	02	Elective
AGF	5209	Land-use Planning in Agroforestry	02	Elective
AGF	5210	Climate Change, Agroforestry and Food Security	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGF	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
AGF	5302	Thesis Evaluation	05	Compulsory
AGF	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

05. Course Code and Title Program: MS

Name of the subject : Agronomy
Name of the department : Agronomy
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGR	5101	Soil Fertility Management and Crop Production	02	Compulsory
AGR	5102	Stress Agronomy	02	Compulsory
AGR	5103	Water Management and Crop Production	02	Compulsory
AGR	5104	Agronomic Research	02	Compulsory
AGR	5105	Farming System	02	Elective
AGR	5106	Forage and Pasture Crop Production	02	Elective
AGR	5107	Coastal and Hill Agriculture	02	Elective
AGR	5108	Microclimate	02	Elective
AGR	5301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGR	5201	Advanced Production Technology of Major Crops	02	Compulsory
AGR	5202	Physiological Aspects of Grain Yield of Crops	02	Compulsory
AGR	5203	Advanced Seed Science and Technology	02	Compulsory
AGR	5204	Weed Management	02	Compulsory
AGR	5205	Weeds and Weeds Ecology	02	Elective
AGR	5206	Cropping System	02	Elective
AGR	5207	Advanced Production Technology of Minor Crops	02	Elective
AGR	5208	Crop Land Agroforestry	02	Elective
AGR	5209	Environmental Agronomy	02	Elective
AGR	5301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AGR	5301	Research Work (Satisfactory/Unsatisfactory)	02	Compulsory
AGR	5302	Thesis Evaluation	05	Compulsory
AGR	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

06. Course Code and Title

Program: MS

Name of the subject : Biotechnology
Name of the department : Biotechnology
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory /Elective
BTH	5101	Molecular Cell Biology	02	Compulsory
BTH	5102	Molecular Genetics	02	Compulsory
BTH	5103	Gene Expression and Regulation	02	Compulsory
BTH	5104	Recombinant DNA Technology	02	Compulsory
BTH	5105	Enzymology and Enzyme Technology	02	Elective
BTH	5106	Immunology and Immunotechnology	02	Elective
BTH	5107	Animal Biotechnology	02	Elective
BTH	5108	Industrial Plant Biotechnology	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory /Elective
BTH	5201	Applied Biotechnology	02	Compulsory
BTH	5202	Molecular Markers and Diagnostics	02	Compulsory
BTH	5203	Molecular Techniques	02	Compulsory
BTH	5204	Biometry and Bioinformatics	02	Compulsory
BTH	5205	Animal Tissue Culture	02	Elective
BTH	5206	Biopharming and Bioengineering	02	Elective
BTH	5207	Environmental Biotechnology and Biosafety	02	Elective
BTH	5208	Plant Cell, Tissue and Organ Culture	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory /Elective
BTH	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
BTH	5302	Thesis Evaluation	05	Compulsory
BTH	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

07. Course Code and Title

Program: MS

Name of the subject : Entomology
Name of the department : Entomology
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Cod	Numeric Code	Course Title	Credit Hour	Compulsory Elective
ENT	5101	Insect Taxonomy	02	Compulsory
ENT	5102	Insect Ecology	02	Compulsory
ENT	5103	Pesticide Management	02	Compulsory
ENT	5104	Insect Pest Management	02	Compulsory
ENT	5105	Economic Entomology of Minor crops	02	Elective
ENT	5106	Forest Entomology	02	Elective
ENT	5107	Insect Nutrition and Biochemistry	02	Elective
ENT	5108	Insect Pathology	02	Elective

B. Semester: July-December

Alphabetic Cod	Numeric Code	Course Title	Credit Hour	Compulsory Elective
ENT	5201	Insect Physiology	02	Compulsory
ENT	5202	Insect Morphology	02	Compulsory
ENT	5203	Entomological Technique	02	Compulsory
ENT	5204	Experimental Design	02	Compulsory
ENT	5205	Stored Products Pests	02	Elective
ENT	5206	Industrial Entomology	02	Elective
ENT	5207	Insecticide Toxicology	02	Elective
ENT	5208	Medical Entomology	02	Elective

C. Research: Semester

Alphabetic Cod	Numeric Code	Course Title	Credit Hour	Compulsory Elective
ENT	5301	Research work (Satisfactory/Unsatisfactory)	08	Compulsory
ENT	5302	Thesis Evaluation	05	Compulsory
ENT	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

08. Course Code and Title

Program: MS

Name of the subject : Horticulture
Name of the department : Horticulture
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
HRT	5101	Spices, Medicinal Plants and Plantation Crops Management	02	Compulsory
HRT	5102	Postharvest Technology of Horticultural Crops	02	Compulsory
HRT	5103	Advanced Seed Technology of Horticultural Crops	02	Compulsory
HRT	5104	Plant Growth Regulators in Horticulture	02	Compulsory
HRT	5105	Physiology of Horticultural Crop Yield	02	Elective
HRT	5106	Homestead Horticulture	02	Elective
HRT	5107	Horticulture and Human Nutrition	02	Elective
HRT	5108	Organic Farming of Horticultural Crops	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
HRT	5201	Advanced Fruit Production	02	Compulsory
HRT	5202	Advanced Vegetable Production	02	Compulsory
HRT	5203	Advanced Research Methodology	02	Compulsory
HRT	5204	Ornamental and Landscape Horticulture	02	Compulsory
HRT	5205	Horticultural Plant Biotechnology	02	Elective
HRT	5206	Advanced Nursery Management	02	Elective
HRT	5207	Minor Fruits of Bangladesh	02	Elective
HRT	5208	Processing of Horticultural Crops	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
HRT	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
HRT	5302	Thesis Evaluation	05	Compulsory
HRT	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

09. Course Code and Title

Program: MS

Name of the subject : Plant Pathology
Name of the department : Plant Pathology
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PLP	5101	Pathogenesis	02	Compulsory
PLP	5102	Methods in Plant Pathology	02	Compulsory
PLP	5103	Plant Disease Management	02	Compulsory
PLP	5104	Epidemiology of Plant Diseases	02	Compulsory
PLP	5105	Plant Pathogenic Prokaryotes	02	Elective
PLP	5106	Plant Nematology	02	Elective
PLP	5107	Spread of Plant Pathogens	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PLP	5201	Plant Diseases Diagnosis	02	Compulsory
PLP	5202	Genetics of Plant Pathogen & Plant Diseases	02	Compulsory
PLP	5203	Seed Pathology	02	Compulsory
PLP	5204	Pathological Research Methodology	02	Compulsory
PLP	5205	Plant Virology	02	Elective
PLP	5206	Mycology	02	Elective
PLP	5207	Soil Born Diseases	02	Elective
PLP	5208	Post Harvest Pathology	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PLP	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
PLP	5302	Thesis Evaluation	05	Compulsory
PLP	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

10. Course Code and Title

Program: MS

Name of the subject : Soil Science
Name of the department : Soil Science
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
SSC	5101	Advanced Plant Nutrition	02	Compulsory
SSC	5102	Advanced Biofertilizer Technology	02	Compulsory
SSC	5103	Advanced Soil Survey and Classification	02	Compulsory
SSC	5104	Soil, Plant and Water Analysis	02	Compulsory
SSC	5105	Soil Pollution and Remediation	02	Elective
SSC	5106	Soils of Bangladesh	02	Elective
SSC	5107	Soil Ecology and Biodiversity	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
SSC	5201	Advanced Soil Physics	02	Compulsory
SSC	5202	Advanced Soil Chemistry	02	Compulsory
SSC	5203	Advanced Soil Microbiology	02	Compulsory
SSC	5204	Soils Fertility and Management	02	Compulsory
SSC	5205	Design of Agricultural Experiments	02	Elective
SSC	5206	Clay Mineralogy	02	Elective
SSC	5207	Soil Degradation and Soil Conservation	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
SSC	5301	Research Work(Satisfactory/Unsatisfactory)	08	Compulsory
SSC	5302	Thesis Evaluation	05	Compulsory
SSC	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

11. Course Code and Title

Program: MS

Name of the subject : Electrical and Electronics Engineering
Name of the department : Electrical and Electronics Engineering
Total compulsory course : 15 Credit hours
Total elective course : 09 Credit hours
Total research work : 18 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
EEE	5101	Research Methodology in EEE	03	Compulsory
EEE	5102	Engineering Analysis	03	Compulsory
EEE	5103	Semiconductor Characterization Technique	03	Compulsory
EEE	5104	Artificial Neural System	03	Elective
EEE	5105	Advanced Digital Signal Processing	03	Elective
EEE	5106	Nonlinear System Analysis	03	Elective
EEE	5107	Power Semiconductor Circuits	03	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
EEE	5201	Electric and Magnetic Properties of Materials	03	Compulsory
EEE	5202	Non-linear Control System	03	Compulsory
EEE	5203	Microwave Theory and Technique	03	Elective
EEE	5204	VLSI Techniques and Device Modeling	03	Elective
EEE	5205	Electronics of Solids	03	Elective
EEE	5206	Antennas and Propagations	03	Elective
EEE	5207	Modern Power System Modeling	03	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
EEE	5301	Research Work (Satisfactory/Unsatisfactory)	10	Compulsory
EEE	5302	Thesis Evaluation	05	Compulsory
EEE	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

12. Course Code and Title

Program: MS

Name of the subject : Computer Science and Information Technology
Name of the department : Computer Science and Information Technology
Total compulsory course : 18 Credit hours
Total elective course : 09 Credit hours
Total research work : 18 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
CIT	5101	Computer Arithmetic	03	Compulsory
CIT	5102	Advanced Algorithms Analysis	03	Compulsory
CIT	5103	Symbolic Machine Learning	03	Compulsory
CIT	5104	Advanced Algorithmic Graph Theory	03	Elective
CIT	5105	Information Security and Cryptography	03	Elective
CIT	5106	Bio-informatics Algorithms	03	Elective
CIT	5107	Advanced Digital Image Processing	03	Elective
CIT	5108	Cloud Computing	03	Elective
CIT	5109	Natural Language Processing	03	Elective
CIT	5110	Advanced Computer Communication and Networks	03	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
CIT	5201	Research Methodology for Computer Science	03	Compulsory
CIT	5202	Software Testing & Quality Assurance	03	Compulsory
CIT	5203	Parallel and Distributed Computing	03	Compulsory
CIT	5204	Data Mining Techniques	03	Elective
CIT	5205	Wireless Sensor Networks and IoT	03	Elective
CIT	5206	Human Computer Interaction	03	Elective
CIT	5207	Combinatorial Optimization	03	Elective
CIT	5208	Neural Networks and Fuzzy Systems	03	Elective
CIT	5209	Big-data Analytics and Warehousing	03	Elective
CIT	5210	Digital Forensics and Cyber Policies	03	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
CIT	5301	Research Work (Satisfactory/ Unsatisfactory)	10	Compulsory
CIT	5302	Thesis Evaluation	05	Compulsory
CIT	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

13. Course Code and Title

Program: MBA

Name of the subject : Accounting and Information System
Name of the department : Accounting and Information System
Total compulsory course : 32 Credit hours
Total elective course : 00 Credit hours
Total internship work : 06 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AIS	6101	Advanced Management Accounting	03	Compulsory
AIS	6102	Social Accounting	03	Compulsory
AIS	6103	Accounting for Government and Non-profit Organization	03	Compulsory
AIS	6104	Corporate Financial Reporting	03	Compulsory
AIS	6105	Working Capital Management	03	Compulsory
AIS	6106	Oral Comprehensive	01	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AIS	6201	Advance Financial Accounting	03	Compulsory
AIS	6202	Strategic Management	03	Compulsory
AIS	6203	Cost Control and Planning	03	Compulsory
AIS	6204	Advanced Financial Management	03	Compulsory
AIS	6205	Project Management	03	Compulsory
AIS	6206	Oral Comprehensive	01	Compulsory

C. Internship Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AIS	6301	Internship Report Evaluation	03	Compulsory
AIS	6302	Internship Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

14. Course Code and Title

Program: MBA

Name of the subject : Finance
Name of the department : Finance and Banking
Total compulsory course : 32 Credit hours
Total elective course : 00 Credit hours
Total internship work : 06 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FIN	6101	Working Capital Management	03	Compulsory
FIN	6102	Financial Information System and Reporting	03	Compulsory
FIN	6103	Monetary Policy and Micro Finance	03	Compulsory
FIN	6104	Islamic Financial System	03	Compulsory
FIN	6105	Corporate Reconstructing and Governance	03	Compulsory
FIN	6106	Oral Comprehensive	01	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FIN	6201	Project Management	03	Compulsory
FIN	6202	Corporate Finance	03	Compulsory
FIN	6203	Financial Derivates and Engineering	03	Compulsory
FIN	6204	Managerial Economics	03	Compulsory
FIN	6205	Public Finance	03	Compulsory
FIN	6206	Oral Comprehensive	01	Compulsory

C. Internship Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FIN	6301	Internship Report Evaluation	03	Compulsory
FIN	6302	Internship Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

15. Course Code and Title

Program: MBA

Name of the subject : Human Resources Management
Name of the department : Management Studies
Total compulsory course : 32 Credit hours
Total elective course : 00 Credit hours
Total internship work : 06 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
HRM	6101	Human Resource Planning and Policy	03	Compulsory
HRM	6102	Compensation Management	03	Compulsory
HRM	6103	Conflict Management and Negotiation	03	Compulsory
HRM	6104	Human Resources Information System	03	Compulsory
HRM	6105	International Human Resource Management	03	Compulsory
HRM	6106	Oral Comprehension	01	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory /Elective
HRM	6201	Organizational Behavior and Development	03	Compulsory
HRM	6202	Training and Development	03	Compulsory
HRM	6203	Strategic Human Resources Management	03	Compulsory
HRM	6204	Carrier Planning and Development	03	Compulsory
HRM	6205	Strategic Management	03	Compulsory
HRM	6206	Oral Comprehension	01	Compulsory

C. Internship Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory /Elective
HRM	6301	Internship Report Evaluation	03	Compulsory
HRM	6302	Internship Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

16. Course Code and Title

Program: MBA

Name of the subject : Marketing
Name of the department : Marketing
Total compulsory course : 32 Credit hours
Total elective course : 00 Credit hours
Total internship work : 06 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
MKT	6101	Customer Relationship Management	03	Compulsory
MKT	6102	Strategic Marketing	03	Compulsory
MKT	6103	Marketing for Nonprofit Organization	03	Compulsory
MKT	6104	Service Marketing	03	Compulsory
MKT	6105	E-Marketing	03	Compulsory
MKT	6106	Oral Comprehensive	01	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
MKT	6201	Marketing Management	03	Compulsory
MKT	6202	Integrated Marketing Communications	03	Compulsory
MKT	6203	Agricultural Marketing and Farm Management	03	Compulsory
MKT	6204	Pricing Theory and Practice	03	Compulsory
MKT	6205	Advance Marketing Research	03	Compulsory
MKT	6206	Oral Comprehensive	01	Compulsory

C. Internship Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
MKT	6301	Internship Report Evaluation	03	Compulsory
MKT	6302	Internship Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

17. Course Code and Title

Program: MS

Name of the subject : Anatomy
Name of the department : Anatomy and Histology
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VAH	6101	Ruminant Anatomy	02	Compulsory
VAH	6102	Avian Anatomy	02	Compulsory
VAH	6103	Cell Biology and Veterinary Histology	02	Compulsory
VAH	6104	Developmental Anatomy	02	Compulsory
VAH	6105	Canine and Feline Anatomy	02	Elective
VAH	6106	Histology of Urogenital Systems	02	Elective
VAH	6107	Anatomy of Immune System	02	Elective
VAH	6108	Comparative Anatomy of Locomotive and Urogenital Systems	02	Elective
VAH	6109	Comparative Anatomy of Digestive and Respiratory Systems	02	Elective
VAH	6301	Research Works (Satisfactory/ Unsatisfactory)	03	Compulsory

B. Semester: July-December

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VAH	6201	Neuro and Endocrine Anatomy	02	Compulsory
VAH	6202	Histochemistry	02	Compulsory
VAH	6203	Molecular Biology	02	Compulsory
VAH	6204	Evolutionary Anatomy	02	Compulsory
VAH	6205	Comparative Anatomy of Blood Vascular and Lymphatic Systems	02	Elective
VAH	6206	Anatomy of Laboratory and Zoo Animal	02	Elective
VAH	6207	Histology of Digestive and Respiratory Systems	02	Elective
VAH	6208	Equine Anatomy	02	Elective
VAH	6209	Comparative Anatomy of Sense Organs	02	Elective
VAH	6301	Research Works (Satisfactory/ Unsatisfactory)	03	Compulsory

C. Thesis Semester

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VAH	6301	Research Works (Satisfactory/ Unsatisfactory)	02	Compulsory
VAH	6302	Thesis Evaluation	05	Compulsory
VAH	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

18. Course Code and Title

Program: MS

Name of the subject : Physiology
Name of the Department : Physiology and Pharmacology
Total compulsory course : 16 Credits
Total elective course : 08 Credits
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PHY	6101	Digestive Physiology	02	Compulsory
PHY	6102	Physiology of Excretion and Electrolyte Balance	02	Compulsory
PHY	6103	Physiology of Reproduction	02	Compulsory
PHY	6104	Nutritional Physiology	02	Compulsory
PHY	6105	Physiology of Integration	02	Elective
PHY	6106	Immuno Physiology	02	Elective
PHY	6107	Ethology	02	Elective
PHY	6108	Electrophysiology	02	Elective
PHY	6109	Environmental Physiology	02	Elective
PHY	6110	Bioconjugation in Life Science	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PHY	6201	Cell Physiology	02	Compulsory
PHY	6202	Ruminant Physiology	02	Compulsory
PHY	6203	Endocrine Physiology	02	Compulsory
PHY	6204	Avian Physiology	02	Compulsory
PHY	6205	Physiology of Metabolism	02	Elective
PHY	6206	Cardiovascular Physiology	02	Elective
PHY	6207	Wild Life Physiology	02	Elective
PHY	6208	Radiobiology	02	Elective
PHY	6209	Techniques in Physiology	02	Elective
PHY	6210	Physiological Chemistry	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PHY	6301	Research Work (Satisfactory/ Unsatisfactory)	08	Compulsory
PHY	6302	Thesis Evaluation	05	Compulsory
PHY	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

19. Course Code and Title Program: MS

Name of the subject : Pharmacology
Name of the Department : Physiology and Pharmacology
Total compulsory course : 16 Credits
Total elective course : 08 Credits
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PHA	6101	Systemic Pharmacology	02	Compulsory
PHA	6102	Endocrine and Nutritional Pharmacology	02	Compulsory
PHA	6103	Toxicology of Pesticides and Other Toxic Agents	02	Compulsory
PHA	6104	Applied Toxicology	02	Compulsory
PHA	6105	Autonomic and Neuro- Pharmacology	02	Elective
PHA	6106	Chemotherapy of Parasitic Diseases	02	Elective
PHA	6107	Chemotherapy of Neoplastic Diseases	02	Elective
PHA	6108	Toxicology of Drugs and Chemical Residues	02	Elective
PHA	6109	Teratology	02	Elective
PHA	6110	Pharmacy	02	Elective
PHA	6111	Experimental Pharmacology	02	Elective
PHA	6112	Techniques in Toxicology	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PHA	6201	General Pharmacology	02	Compulsory
PHA	6202	Chemotherapy	02	Compulsory
PHA	6203	General Toxicology	02	Compulsory
PHA	6204	Phyto-Toxicology	02	Compulsory
PHA	6205	Techniques in Pharmacology	02	Elective
PHA	6206	Pharmaceutical Chemistry	02	Elective
PHA	6207	Pharmacology of Autacoids and Locally Acting Drugs	02	Elective
PHA	6208	Immunopharmacology	02	Elective
PHA	6209	Neonatal Pharmacology	02	Elective
PHA	6210	Environmental Toxicology	02	Elective
PHA	6211	Systemic Toxicology	02	Elective
PHA	6212	Food Toxicology	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PHA	6301	Research Work (Satisfactory/ Unsatisfactory)	08	Compulsory
PHA	6302	Thesis Evaluation	05	Compulsory
PHA	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

20. Course Code and Title Program: MS

Name of the subject : Medicine
Name of the department : Medicine, Surgery and Obstetrics
Total compulsory course : 18 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VMM	6101	General Bovine Medicine	02	Compulsory
VMM	6102	General Avian Medicine	02	Compulsory
VMM	6103	Caprine and Ovine Medicine	02	Compulsory
VMM	6104	Veterinary Epidemiology and Preventive Medicine	02	Compulsory
VMM	6105	Veterinary Diagnostic Medicine	02	Compulsory
VMM	6106	Equine and Porcine Medicine	02	Elective
VMM	6107	Veterinary Clinical Immunology	02	Elective
VMM	6108	Laboratory Animal Medicine	02	Elective
VMM	6109	Veterinary Forensic Medicine and Animal Welfare	02	Elective
VMM	6110	Zoonotic Diseases and Community Medicine	02	Elective
VMM	6301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

B. Semester: July-December

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VMM	6201	Special Bovine Medicine	02	Compulsory
VMM	6202	Special Avian Medicine	02	Compulsory
VMM	6203	Canine and Feline Medicine	02	Compulsory
VMM	6204	Veterinary Clinical Practice	02	Compulsory
VMM	6205	Veterinary Paediatrics	02	Elective
VMM	6206	Veterinary Clinical Equipments and Therapeutics	02	Elective
VMM	6207	Zoo and Wild Animal Medicine	02	Elective
VMM	6208	Dairy Animal Health	02	Elective
VMM	6209	Veterinary Dermatology	02	Elective
VMM	6210	Veterinary Comparative Medicine	02	Elective
VMM	6211	Seminar	02	Elective
VMM	6301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

C. Thesis Semester

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VMM	6301	Research Work (Satisfactory/Unsatisfactory)	02	Compulsory
VMM	6302	Thesis Evaluation	05	Compulsory
VMM	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

21. Course Code and Title Program: MS

Name of the subject : Surgery
Name of the department : Medicine, Surgery and Obstetrics
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VSS	6101	General Surgical Sciences	2	Compulsory
VSS	6102	Anaesthetic Practices and Small Animal Surgery	2	Compulsory
VSS	6103	Anaesthesiology	2	Compulsory
VSS	6104	Small Animal Surgery	2	Compulsory
VSS	6105	Experimental Surgery	2	Elective
VSS	6106	Ophthalmic Surgery	2	Elective
VSS	6107	Operation Theatre & Intensive Care Techniques	2	Elective
VSS	6108	Urology	2	Elective
VSS	6109	Orthopaedic Surgery	2	Elective
VSS	6110	Transplantation Techniques	2	Elective
VSS	6111	Gastrointestinal Surgery	2	Elective
VSS	6112	Seminar	2	Elective
VSS	6301	Research Work (Satisfactory/Unsatisfactory)	3	Compulsory

B. Semester: July-December

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VSS	6201	Radiology and Diagnostic Imaging	2	Compulsory
VSS	6202	Clinical Surgery	2	Compulsory
VSS	6203	Large Animal Surgery	2	Compulsory
VSS	6204	Clinical Practice of Fluid Therapy and Blood Transfusion	2	Compulsory
VSS	6205	Zoo and Laboratory Animal Anaesthesia	2	Elective
VSS	6206	Clinical Management of Lameness in Animals	2	Elective
VSS	6207	Cardiovascular Surgery	2	Elective
VSS	6208	Lameness in Animals	2	Elective
VSS	6209	Neurosurgery	2	Elective
VSS	6210	Soundness and Shoeing	2	Elective
VSS	6211	Seminar	2	Elective
VSS	6301	Research Work (Satisfactory/Unsatisfactory)	3	Compulsory

C. Thesis Semester

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VSS	6301	Research Work (Satisfactory/Unsatisfactory)	02	Compulsory
VSS	6302	Thesis Evaluation	05	Compulsory
VSS	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

22. Course Code and Title Program: MS

Name of the subject : Theriogenology
Name of the department : Medicine, Surgery and Obstetrics
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VST	6101	General Gynaecology	02	Compulsory
VST	6102	Reproductive Health Management of Farm Animals	02	Compulsory
VST	6103	Reproductive Hormones	02	Compulsory
VST	6104	Advance in Gynaecology & Obstetrics	02	Compulsory
VST	6105	Udder Health Management	02	Elective
VST	6106	Clinical Practices of Udder Health Management	02	Elective
VST	6107	Reproductive Health Management of Pet, Zoo and Wild Animals	02	Elective
VST	6108	Clinical Gynaecology and Obstetrics	02	Elective
VST	6301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

B. Semester: July-December

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VST	6201	Obstetrics	02	Compulsory
VST	6202	Reproductive Biotechnology	02	Compulsory
VST	6203	Andrology and Artificial Insemination	02	Compulsory
VST	6204	Health Management of Pregnant Dam and Neonates	02	Compulsory
VST	6205	Reproductive Immunology	02	Elective
VST	6206	Techniques in Reproductive Biotechnology	02	Elective
VST	6207	Reproductive Disorder	02	Elective
VST	6208	Reproductive Surgery	02	Elective
VST	6209	Advance in Andrology and Artificial Insemination	02	Elective
VST	6210	Techniques in Andrology and Artificial Insemination	02	Elective
VST	6211	Seminar	02	Elective
VST	6301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

C. Thesis Semester

Alphabetic code	Numeric code	Course title	Credit hour	Compulsory/ Elective
VST	6301	Research Work (Satisfactory/Unsatisfactory)	02	Compulsory
VST	6302	Thesis Evaluation	05	Compulsory
VST	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

23. Course Code and Title Program: MS

Name of the subject : Microbiology
Name of the department : Microbiology and Public Health
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
MIC	6101	General Bacteriology	02	Compulsory
MIC	6102	Systemic Bacteriology	02	Compulsory
MIC	6103	Fungi, Mycoplasma, Chlamydia and Rickettsia	02	Compulsory
MIC	6104	Microbiological Methods	02	Compulsory
MIC	6105	Microbial Toxins	02	Elective
MIC	6106	Avian Microbes	02	Elective
MIC	6107	Microbial Genetics	02	Elective
MIC	6108	Applied Biostatistics	02	Elective
VPH	6101	Veterinary Public Health	02	Elective
VPH	6102	Zoonoses	02	Elective
VPH	6103	Environmental Microbiology	02	Elective
VPH	6104	Environmental Hygiene and Sanitation	02	Elective
VPH	6105	Industrial Microbiology	02	Elective
VPH	6106	Food Microbiology	02	Elective
VPH	6107	Food Microbiology Lab	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
MIC	6201	General Virology	02	Compulsory
MIC	6202	Systemic Virology	02	Compulsory
MIC	6203	Immunology and Serology	02	Compulsory
MIC	6204	Molecular Microbiology	02	Compulsory
MIC	6205	Vaccinology	02	Elective
MIC	6206	Vaccinology Lab	02	Elective
MIC	6207	Microbial Biotechnology	02	Elective
MIC	6208	Microbial Biotechnology Lab	02	Elective
MIC	6209	Microbiology of Reproductive System	02	Elective
MIC	6210	Microbiology of Reproductive System Lab	02	Elective
MIC	6211	Avian Health and Hygiene	02	Elective
VPH	6201	Food Hygiene	02	Elective
VPH	6202	Food Hygiene Lab	01	Elective
VPH	6203	Epidemiology	02	Elective
VPH	6204	Meat and Milk Inspection	02	Elective
VPH	6205	Food Borne Infection and Intoxication	01	Elective
VPH	6210	Sanitary Microbiology	02	Elective
VPH	6211	Food Laws and Regulation	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
MIC	6301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
MIC	6302	Thesis Evaluation	05	Compulsory
MIC	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

24. Course Code and Title Program: MS

Name of the subject : Veterinary Public Health and Food Hygiene
Name of the department : Microbiology and Public Health
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPH	6101	Veterinary Public Health	02	Compulsory
VPH	6102	Zoonoses	02	Compulsory
VPH	6103	Environmental Microbiology	02	Compulsory
VPH	6104	Environmental Hygiene and Sanitation	02	Compulsory
VPH	6105	Industrial Microbiology	02	Elective
VPH	6106	Food Microbiology	02	Elective
VPH	6107	Food Microbiology Lab	02	Elective
VPH	6108	Animal Products and Hurdle Technology	02	Elective
VPH	6109	Animal Products and Hurdle Technology Lab	02	Elective
MIC	6101	General Bacteriology	02	Elective
MIC	6102	Systemic Bacteriology	02	Elective
MIC	6103	Fungi, Mycoplasma, Chlamydia and Rickettsia	02	Elective
MIC	6105	Microbial Toxins	02	Elective
MIC	6108	Applied Biostatistics	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPH	6201	Food Hygiene	02	Compulsory
VPH	6202	Food Hygiene Lab	01	Compulsory
VPH	6203	Epidemiology	02	Compulsory
VPH	6204	Meat and Milk Inspection	02	Compulsory
VPH	6205	Food Borne Infection and Intoxication	01	Compulsory
VPH	6206	Food Plant Sanitation, Inspection and Quality Control	02	Elective
VPH	6207	Food Plant Sanitation, Inspection and Quality Control Lab	01	Elective
VPH	6208	Abattoir Hygiene and Management	02	Elective
VPH	6209	Abattoir Hygiene and Management Lab	01	Elective
VPH	6210	Sanitary Microbiology	02	Elective
VPH	6211	Food Laws and Regulation	02	Elective
MIC	6201	General Virology	02	Elective
MIC	6202	Systemic Virology	02	Elective
MIC	6203	Immunology and Serology	02	Elective
MIC	6204	Molecular Microbiology	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
MIC	6301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
MIC	6302	Thesis Evaluation	05	Compulsory
MIC	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

25. Course Code and Title Program: MS

Name of the subject : Pathology
Name of the department : Pathology and Parasitology
Total compulsory course : Credit hours: 16
Total elective course : Credit hours: 08
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPT	6101	Histopathology	02	Compulsory
VPT	6102	Clinical Pathology	02	Compulsory
VPT	6103	Necropsy	02	Compulsory
VPT	6104	Pathology of Bacterial and Viral Diseases	02	Compulsory
VPT	6105	Pathology of Fungal, Rickettsial and Chlamydial Diseases	02	Elective
VPT	6106	Pathology of Parasitic Disease	02	Elective
VPT	6107	Reproductive Pathology	02	Elective
VPT	6108	Laboratory Animal Pathology	02	Elective
VPT	6109	Experimental Pathology	02	Elective
VPT	6110	Pathology of Extraneous Poisoning	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPT	6201	Advanced General Pathology	02	Compulsory
VPT	6202	Pathology of Metabolic Diseases	02	Compulsory
VPT	6203	Immunopathology	02	Compulsory
VPT	6204	Avian Pathology	02	Compulsory
VPT	6205	Oncology	02	Elective
VPT	6206	Molecular Pathology and Biotechnology	02	Elective
VPT	6207	Pathology of Zoonotic Diseases	02	Elective
VPT	6208	Comparative Pathology	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPT	6301	Research work (Satisfactory/ Unsatisfactory)	08	Compulsory
VPT	6302	Thesis Evaluation	05	Compulsory
VPT	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

26. Course Code and Title Program: MS

Name of the subject : Parasitology
Name of the department : Pathology and Parasitology
Total compulsory course : Credit hours: 16
Total elective course : Credit hours: 08
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPR	6101	General Parasitology and Helminthology	02	Compulsory
VPR	6102	Molecular and Biochemical Parasitology	02	Compulsory
VPR	6103	Immuno Parasitology	02	Compulsory
VPR	6104	Malacology	02	Compulsory
VPR	6105	Avian Parasitology	02	Elective
VPR	6106	Parasites of Zoo and Wild Animals	02	Elective
VPR	6107	Clinical Parasitology	02	Elective
VPR	6108	Zoonotic Parasites	02	Elective
VPR	6109	Parasites of Large Animals	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPR	6201	Protozoology	02	Compulsory
VPR	6202	Entomology	02	Compulsory
VPR	6203	Techniques in Helminthology	01	Compulsory
VPR	6204	Techniques in Protozoology and Entomology	01	Compulsory
VPR	6205	Parasitic Ecology and Epidemiology	02	Compulsory
VPR	6206	Parasites of Pet and Laboratory Animals	02	Elective
VPR	6207	Biology of Arthropods Vectors	02	Elective
VPR	6208	Applied Biostatistics	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
VPR	6301	Research work (Satisfactory/ Unsatisfactory)	08	Compulsory
VPR	6302	Thesis Evaluation	05	Compulsory
VPR	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

27. Course Code and Title Program: MS

Name of the subject : Poultry Science
Name of the department : Poultry Science
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PSC	6101	Broiler Operation and Management	02	Compulsory
PSC	6102	Poultry Processing and Products Technology	02	Compulsory
PSC	6103	Avian Reproductive Biology	02	Compulsory
PSC	6104	Advances in Specialized Fowl Production	02	Compulsory
PSC	6105	Family Poultry Production	02	Elective
PSC	6106	Project Planning, Monitoring and Evaluation	02	Elective
PSC	6107	Marketing of Poultry and Poultry Products	02	Elective
PSC	6108	Financial Management in Poultry Industry	02	Elective
ABG	6102	Poultry Breeding	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PSC	6201	Advances in Hatchery Management	02	Compulsory
PSC	6202	Poultry Nutrition and Nutritional Biotechnology	02	Compulsory
PSC	6203	Layer Operation and Management	02	Compulsory
PSC	6204	Applied Biostatistics	02	Compulsory
PSC	6205	Poultry Farm Planning, Design and Environment	02	Elective
PSC	6206	Poultry Farm Machinery	02	Elective
PSC	6207	Poultry Behavior and Welfare	02	Elective
MIC	6211	Avian Health and Hygiene	02	Elective
ABG	6201	Genetics	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
PSC	6301	Research work (Satisfactory/ Unsatisfactory)	08	Compulsory
PSC	6302	Thesis Evaluation	05	Compulsory
PSC	6303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

28. Course Code and Title Program: MS

Name of the subject : Aquaculture
Name of the department : Aquaculture
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AQC	5101	Advanced Coastal Aquaculture	02	Compulsory
AQC	5102	Integrated Aquaculture	02	Compulsory
AQC	5103	Aquaculture Nutrition	02	Compulsory
AQC	5104	Advanced Fish Pathology	02	Compulsory
AQC	5105	Crustacean Breeding and Culture	02	Elective
AQC	5106	Mangrove Aquaculture	02	Elective
AQC	5107	Fish Immunology	02	Elective
AQC	5108	Geographical Information System in Aquaculture	02	Elective
AQC	5109	Project Design and Management	02	Elective
FBG	5101	Fisheries Breeding and Stock Improvement	02	Elective
FMN	5204	Water Quality and Environmental Impact	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AQC	5201	Advanced Freshwater Aquaculture	02	Compulsory
AQC	5202	Fish Health Management	02	Compulsory
AQC	5203	Aquafarm Operation	02	Compulsory
AQC	5204	Advanced Aquaculture Food Technology	02	Compulsory
AQC	5205	Mariculture	02	Elective
AQC	5206	Culture of Fish Food Organisms	02	Elective
AQC	5207	Advanced Fish Parasitology	02	Elective
AQC	5208	Aquaculture Impact	02	Elective
AQC	5209	Aquaculture Extension	02	Elective
AQC	5210	Biostatistics	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
AQC	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
AQC	5302	Thesis Evaluation	05	Compulsory
AQC	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

29. Course Code and Title Program: MS

Name of the subject : Fisheries Biology and Genetics
Name of the department : Fisheries Biology and Genetics
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FBG	5101	Fish Breeding and Stock Improvement	02	Compulsory
FBG	5102	Endocrinology of Aquatic Animals	02	Compulsory
FBG	5103	Fish Genetic Engineering and Biotechnology	02	Compulsory
FBG	5104	Shellfish Biotechnology	02	Compulsory
FBG	5105	Fish Behavior	02	Elective
FBG	5106	Embryology of Fishes	02	Elective
FBG	5107	Advanced Ichthyology	02	Elective
FBG	5108	Cytogenetics of Aquatic Animals	02	Elective
FBG	5109	Genetics and Reproduction of Ornamental Fishes	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FBG	5201	Biology of Fishes	02	Compulsory
FBG	5202	Advanced Fish Physiology	02	Compulsory
FBG	5203	Fish Population and Conservation Genetics	02	Compulsory
FBG	5204	Molecular Genetics of Fish	02	Compulsory
FBG	5205	Fish Biodiversity and Systematics	02	Elective
FBG	5206	Molecular Ecology of Fishes	02	Elective
FBG	5207	Experimental Design and Genetic Data Analysis	02	Elective
FBG	5208	Biology of Non-piscine Aquatic Vertebrates	02	Elective
FBG	5209	Phylogenetics and Evolution of Fishes	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FBG	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
FBG	5302	Thesis Evaluation	05	Compulsory
FBG	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

30. Course Code and Title Program: MS

Name of the subject : Fisheries Management
Name of the department : Fisheries Management
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FMN	5101	Advanced Fish Production Dynamics	02	Compulsory
FMN	5102	Aquatic Environmental Pollution and Toxicology	02	Compulsory
FMN	5103	Biology and Management of Aquatic Plants	02	Compulsory
FMN	5104	Wetland Ecosystem and Fisheries Biodiversity	02	Compulsory
FMN	5105	Coastal and Marine Ecology	02	Elective
FMN	5106	Fisheries Resources and Conservation	02	Elective
FMN	5107	Mangrove Exploitation and Management	02	Elective
FMN	5108	Oceanography and Marine Biology	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FMN	5201	Community Based Fisheries Management	02	Compulsory
FMN	5202	Advanced Aquatic Ecology	02	Compulsory
FMN	5203	Inland Fisheries Management	02	Compulsory
FMN	5204	Water Quality and Environmental Impact	02	Compulsory
FMN	5205	Ecology of Fishes	02	Elective
FMN	5206	Riverine Fisheries Management	02	Elective
FMN	5207	Laboratory Techniques for Water Quality and Pollution Analysis	02	Elective
FMN	5208	Aquatic Soil Science	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FMN	5301	Research work (Satisfactory/ Unsatisfactory)	08	Compulsory
FMN	5302	Thesis Evaluation	05	Compulsory
FMN	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

31. Course Code and Title Program: MS

Name of the subject : Fisheries Technology
Name of the department : Fisheries Technology
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FST	5101	Advanced Fishery Products Technology	02	Compulsory
FST	5102	Quality Control of Fish & Fishery Products	02	Compulsory
FST	5103	Fish Processing Biochemistry	02	Compulsory
FST	5104	Biotechnology in Fish Processing	02	Compulsory
FST	5105	Fish Microbiological Techniques	02	Elective
FST	5106	Fishery By-Products Technology	02	Elective
FST	5107	Project design and Management	02	Elective
AQC	5103	Aquaculture Nutrition	02	Elective
MFO	5102	Marine Finfish & Shellfish Resource Management	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FST	5201	Fish Preservation Technology	02	Compulsory
FST	5202	Fish Processing Technology	02	Compulsory
FST	5203	Advanced Fisheries Microbiology	02	Compulsory
FST	5204	Advanced Fishing Technology	02	Compulsory
FST	5205	Analytical Techniques for Fish Processing	02	Elective
FST	5206	Industrial Fishery Management	02	Elective
FST	5207	Advanced Freshwater Aquaculture	02	Elective
FMN	5102	Aquatic Environmental Pollution & Toxicology	02	Elective
MFO	5207	Fisheries Legislation for Resource Management	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FST	5301	Research work (Satisfactory/ Unsatisfactory)	08	Compulsory
FST	5302	Thesis Evaluation	05	Compulsory
FST	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

32. Course Code and Title Program: MS

Name of the subject : Biochemistry and Food Analysis
Name of the department : Biochemistry and Food Analysis
Total compulsory course(s) : 16 Credit hours
Total elective course(s) : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hours	Compulsory/ Elective
BCM	5101	Advanced Chemistry of Carbohydrates, Lipids and Nucleic Acid	02	Compulsory
BCM	5102	Advanced Chemistry of Protein and Enzyme	02	Compulsory
BCM	5103	Principles of Biochemical Techniques	02	Compulsory
BCM	5104	Clinical Biochemistry and Immunochemistry	02	Compulsory
BCM	5105	Comparative Biochemistry -I (Physiology)	02	Elective
BCM	5106	Biochemistry of Plant Hormones and Biocides	02	Elective
BCM	5107	Biochemistry of Plant Nutrition	02	Elective
BCM	5108	Biochemistry of Stress Tolerance	02	Elective
BCM	5109	Principles of Recombinant DNA Technology	02	Elective
BCM	5110	Molecular Biology of Genes	02	Elective
BCM	5111	Human Nutrition	02	Elective
BCM	5112	Biostatistics and Computer Operating	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hours	Compulsory/ Elective
BCM	5201	Intermediary Metabolism and its Regulation	02	Compulsory
BCM	5202	Replication of DNA, Protein Biosynthesis and Introduction to Recombinant DNA	02	Compulsory
BCM	5203	Tissue Culture in Biochemical research	02	Compulsory
BCM	5204	Basic Enzymology and Enzyme Technology	02	Compulsory
BCM	5205	Comparative Biochemistry – II (Molecular Biology)	02	Elective
BCM	5206	Bioenergetics and Human Nutrition	02	Elective
BCM	5207	Biochemistry of Fishes	02	Elective
BCM	5208	Special Topics in Biochemistry	02	Elective
BCM	5209	Soil Biochemistry	02	Elective
BCM	5210	Animal Hormones	02	Elective
BCM	5211	Animal Bio-Technology	02	Elective
BCM	5212	Biochemistry of Secondary Metabolism	02	Elective

C. Research Semester:

Alphabetic Code	Numeric Code	Course Title	Credit Hours	Compulsory/ Elective
BCM	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
BCM	5302	Thesis Evaluation	05	Compulsory
BCM	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

33. Course Code and Title Program: MS

Name of the subject : Community Health and Hygiene
Name of the department : Community Health and Hygiene
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
CHH	5101	Epidemiology	02	Compulsory
CHH	5102	Communicable and Non-Communicable Diseases Prevention and Control	02	Compulsory
CHH	5103	Community Nutrition	02	Compulsory
CHH	5104	Research Methodology	02	Compulsory
CHH	5105	Health Education and Behavioral Science	02	Elective
CHH	5106	Medical Sociology and Health Anthropology	02	Elective
CHH	5107	Clinical Nutrition and Dietetics	02	Elective
CHH	5108	Occupational and Environmental Health	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
CHH	5201	Reproductive and Family Health	02	Compulsory
CHH	5202	Public Health Nutrition (Planning, Policy and Program)	02	Compulsory
CHH	5203	Demography and Population Dynamics	02	Compulsory
CHH	5204	Biostatistics and computing in SPSS	02	Compulsory
CHH	5205	Community Health Promotion	02	Elective
CHH	5206	Health Services Administration and Management	02	Elective
CHH	5207	Advanced Dietetics and Nutritional Disorder	02	Elective
CHH	5208	Nutritional Assessment	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
CHH	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
CHH	5302	Thesis Evaluation	05	Compulsory
CHH	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

34. Course Code and Title Program: MS

Name of the subject : Environmental Sanitation
Name of the department : Environmental Sanitation
Total compulsory course : 16 credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit hour	Compulsory/ Elective
EHS	5101	Industrial Hygiene and Sanitation	02	Compulsory
EHS	5102	Environment and Health	02	Compulsory
EHS	5103	Environmental Toxicology	02	Compulsory
EHS	5104	Waste Treatment and Management System	02	Compulsory
EHS	5105	Advanced Food Microbiology and Microbial Techniques	02	Elective
EHS	5106	Research Methodology	02	Elective
EHS	5107	Technology of Animal and Plant Food Products	02	Elective
EHS	5108	Principles of Environmental Labeling	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit hour	Compulsory/ Elective
EHS	5201	Advanced Public Health and Nutrition	02	Compulsory
EHS	5202	Principles of Food Hygiene and Safety	02	Compulsory
EHS	5203	Epidemiology of Communicable and Non-Communicable Diseases	02	Compulsory
EHS	5204	Occupational Hygiene	02	Compulsory
EHS	5205	Quality Control and Food Safety Management	02	Elective
EHS	5206	Advanced Nutrition and Dietetics	02	Elective
EHS	5207	Health Promotion and Occupation	02	Elective
EHS	5208	Advanced Environmental Health	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit hour	Compulsory/ Elective
EHS	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
EHS	5302	Thesis Evaluation	05	Compulsory
EHS	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

35. Course Code and Title Program: MS

Name of the subject : Food Microbiology
Name of the department : Food Microbiology
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FMB	5101	Food and Microorganism	02	Compulsory
FMB	5102	Quality Control and Food Safety Management-1	02	Compulsory
FMB	5103	Fermentation Technology and Fermented Food Products	02	Compulsory
FMB	5104	Food Virology and Immunology	02	Compulsory
FMB	5105	Advanced Microbial Genetics and Genetic Engineering	02	Elective
FMB	5106	Research Methodology	02	Elective
EHS	5101	Industrial Hygiene and Sanitation	02	Elective
FTE	5101	Advanced Unit Operations in Process and Food Engineering	02	Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FMB	5201	Quality Control and Food Safety Management-11	02	Compulsory
FMB	5202	Advanced Industrial Microbiology and Biotechnology	02	Compulsory
FMB	5203	Public Health Microbiology	02	Compulsory
FMB	5204	Advanced Molecular and Microbial Techniques	02	Compulsory
FMB	5205	Fungi, Mycoplasma, Chlamydia and Rickettsia	02	Elective
EHS	5104	Waste Treatment and Management System	02	Elective
HND	5102	Advanced Nutrition and Diet Therapy	02	Elective
FTE	5204	Advanced Packaging Technology	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
FMB	5301	Research Work (Satisfactory/Unsatisfactory)	08	Compulsory
FMB	5302	Thesis Evaluation	05	Compulsory
FMB	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

36. Course Code and Title Program: MS

Name of the subject : Disaster Resilience and Engineering
Name of the department : Disaster Resilience and Engineering
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
DRE	5101	Decision and Risk Analysis in Resilience and Engineering	02	Compulsory
DRE	5102	Climate Resilient Infrastructure: Engineering and Management	02	Compulsory
DRE	5103	Disaster in Mining Exploration and Management	02	Compulsory
DRE	5104	Flood Protection and River Engineering	02	Compulsory
DRE	5105	Advanced Statistical Analysis for Disaster Resilience	02	Elective
DRE	5106	Land Slids: Resilience and Engineering	02	Elective
DRE	5107	Retrofitting Engineering and Urban Planning	02	Elective
DRE	5108	Post Disaster Reconstruction and Recovery	02	Elective
DRE	5109	Building Disaster Resilience: Bangladesh and Global Perspectives	02	Elective
DRE	5110	Coastal Sediment and Beach Processes	02	Elective
DRE	5111	Sustainable Water Resource Management	02	Elective
DRE	5112	Frontier of Disaster Resilience and Engineering	02	Elective
DRE	5113	Gender Resilience: Theory and Practice	02	Elective
DRE	5301	Research Work (Satisfactory/ Unsatisfactory)	03	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
DRE	5201	Green Technology and Resilience Engineering	02	Compulsory
DRE	5202	Earthquake Engineering and Geo-Hazards Studies	02	Compulsory
DRE	5203	Sustainable Transportation Hazard Mitigation Engineering	02	Compulsory
DRE	5204	Applied Hydrology and Water Engineering	02	Compulsory
DRE	5205	Urban Disaster Mitigation Engineering	02	Elective
DRE	5206	Community Involvement in Resilience and Engineering	02	Elective
DRE	5207	Case Studies of International Projects on Disaster Resilience	02	Elective
DRE	5208	Advanced Waste Management Engineering	02	Elective
DRE	5209	Special Techniques in Disaster Resilience	02	Elective
DRE	5210	Geotechnical Engineering in Built Environment	02	Elective
DRE	5211	Public Policy and Social System for Disaster Resilience	02	Elective
DRE	5212	Environmental Restoration, Rehabilitation and Mitigation Engineering	02	Elective
DRE	5301	Research Work (Satisfactory/ Unsatisfactory)	03	Compulsory

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
DRE	5301	Research Work (Satisfactory/ Unsatisfactory)	02	Compulsory
DRE	5302	Thesis Evaluation	05	Compulsory
DRE	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

37. Course Code and Title Program: MS

Name of the subject : Disaster Risk Science and Sustainability
Name of the department : Disaster Risk Management
Total compulsory course : 18 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
DRS	5101	Advanced Disaster Science and Management	02	Compulsory
DRS	5102	Communication for Disaster Risk Reduction and Sustainable Development	02	Compulsory
DRS	5103	Disaster Managers Skills and Diplomatic Crisis Management	02	Compulsory
DRS	5104	Disaster Risk Management Systems Analysis: Methods and Applications	02	Compulsory
DRS	5105	Disaster Risk Reduction Project Planning and Management	02	Compulsory
DRS	5106	Disaster Management Cycles: Applied Knowledge	02	Elective
DRS	5107	Eco-Based Disaster Risk Reduction	02	Elective
DRS	5108	Human Stress and Resilience Management: Individual and Community Approach	02	Elective
DRS	5109	Industrial and Occupational Safety Analysis		Elective

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
DRS	5201	Advanced Modeling for Disaster Management and Disaster Management Drivers	02	Compulsory
DRS	5202	Research Methodology in Disaster Risk Science and Sustainability	02	Compulsory
DRS	5203	Scientific Writing Skills for Disaster Science and Sustainability	02	Compulsory
DRS	5204	Special Techniques and Big Data in Disaster Risk Reduction	02	Compulsory
DRS	5205	Advanced Prevention and Preparedness for Disaster Risk Reduction	02	Elective
DRS	5206	Disaster Impact Assessment	02	Elective
DRS	5207	Homeland Security and Terrorism in Risk Science and Sustainability	02	Elective
DRS	5208	Vulnerability to Resilience: Livelihood Centered Approach for Disaster Risk Reduction	02	Elective

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
DRS	5301	Research Work (Satisfactory/ Unsatisfactory)	08	Compulsory
DRS	5302	Thesis Evaluation	05	Compulsory
DRS	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

38. Course Code and Title Program: MS

Name of the subject : Disaster Science and Emergency Management
Name of the department : Emergency Management
Total compulsory course(s) : 16 Credit hours
Total elective course(s) : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hours	Compulsory/ Elective
DEM	5101	Psychological, Social and Behavioral Contexts of Emergency Response	02	Compulsory
DEM	5102	Disaster Preparedness and Global Challenges of Disaster Response	02	Compulsory
DEM	5103	International Disaster Relief and Rehabilitation	02	Compulsory
DEM	5104	Emergency Management in Agriculture	02	Compulsory
DEM	5105	Integrated Emergency Management System and Disaster Science	02	Elective
DEM	5106	Public Health and Diseases Investigation and Surveillance Sciences	02	Elective
DEM	5107	Occupational Health and Safety Assessment	02	Elective
DEM	5108	Water Supply and Sanitation in Emergencies	02	Elective
DEM	5109	Incident Command System for Disaster Response	02	Elective
DEM	5301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hours	Compulsory/ Elective
DEM	5201	Emergency Management: Theory and Practice	02	Compulsory
DEM	5202	Anthropogenic and Natural Disaster Management	02	Compulsory
DEM	5203	Research Methodology and Data Analysis in Disaster Management	02	Compulsory
DEM	5204	Disaster Risk Reduction and Resilience	02	Compulsory
DEM	5205	Emergency Planning in Operational Risk and Crisis Management	02	Elective
DEM	5206	Communication for Development in Emergency Response and Management	02	Elective
DEM	5207	Migration and Homeland Security System	02	Elective
DEM	5208	Emergency Remote Sensing and GIS Applications	02	Elective
DEM	5209	Human Geography: Community Recovery and Resilience Perspective	02	Elective
DEM	5301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

C. Research Semester:

Alphabetic Code	Numeric Code	Course Title	Credit Hours	Compulsory/ Elective
DEM	5301	Research Work (Satisfactory/Unsatisfactory)	02	Compulsory
DEM	5302	Thesis Evaluation	05	Compulsory
DEM	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

39. Course Code and Title Program: MS

Name of the subject : Environmental Science
Name of the department : Environmental Science
Total compulsory course : 16 Credit hours
Total elective course : 08 Credit hours
Total research work : 16 Credit hours

A. Semester: January -June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ENS	5101	Fundamentals of Environmental Science	02	Compulsory
ENS	5102	Advanced Ecology Biodiversity and Wildlife Management	02	Compulsory
ENS	5103	Environmental Impact Assessment and Planning	02	Compulsory
ENS	5104	Research Methodology and Data Analysis	02	Compulsory
ENS	5105	Global Environmental Issues and Policies	02	Elective
ENS	5106	Alternative Energy and Environmental Sustainability	02	Elective
ENS	5107	Environmental Profile of Bangladesh	02	Elective
ENS	5108	Environmental Politics: National and International	02	Elective
ENS	5301	Research Work (Satisfactory/ Unsatisfactory)	03	Compulsory

B. Semester: July- December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ENS	5201	Environmental Pollution and Waste Management System	02	Compulsory
ENS	5202	Integrated Spatial Techniques for Environmental Modeling	02	Compulsory
ENS	5203	Global Climate Change and Sustainable Development	02	Compulsory
ENS	5204	Environmental Microbiology and Eco-toxicology	02	Compulsory
ENS	5205	Ecosystem Based Disaster Management	02	Elective
ENS	5206	Advanced Techniques in Natural Resource Management	02	Elective
ENS	5207	Environmental Management System	02	Elective
ENS	5208	Ecological Economics and Ecosystem Services	02	Elective
ENS	5301	Research Work (Satisfactory/ Unsatisfactory)	03	Compulsory

C. Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
ENS	5301	Research Work (Satisfactory/ Unsatisfactory)	02	Compulsory
ENS	5302	Thesis Evaluation	05	Compulsory
ENS	5303	Thesis Defense	03	Compulsory



স্মারক নং-/Memo No: পবিপ্রবি/পিজিএস

তারিখ/ Date:

40. Course Code and Title Program: MS

Name of the subject : Geo-Information Science and Earth Observation
Name of the department : Geo-Information Science and Earth Observation
Total compulsory course : 16 Credit hours
Total elective course : 08 credit hours
Total research work : 16 Credit hours

A. Semester: January-June

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
GEO	5101	Advanced Geographical Information Science	02	Compulsory
GEO	5102	Advanced Remote Sensing and earth Observation	02	Compulsory
GEO	5103	Unmanned Aerial Vehicles (UAV): Fundamentals and Applications	02	Compulsory
GEO	5104	Research Methodology and Scientific Writing Skills	02	Compulsory
GEO	5105	GIS and RS for Integrated Water Resources and Environmental Management	02	Elective
GEO	5106	GIS and RS for Assessment of Climate Change Impacts on Agroecological Systems	02	Elective
GEO	5107	RS for Landscape Studies	02	Elective
GEO	5108	GIS and RS for Sustainable Urban and Regional Planning	02	Elective
GEO	5109	GIS and RS for Marine Environmental Management	02	Elective
GEO	5110	GIS and RS for Wetland Ecosystem Management	02	Elective
GEO	5301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

B. Semester: July-December

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
GEO	5201	Advanced Geospatial Techniques and Analysis	02	Compulsory
GEO	5202	Advanced Remote Sensing and Data Analysis	02	Compulsory
GEO	5203	Advanced Geo-informatics	02	Compulsory
GEO	5204	Acquisition and Exploration of Geospatial Data	02	Compulsory
GEO	5205	GIS and RS Based Sustainable Natural Resources Management	02	Elective
GEO	5206	GIS and RS for Natural Hazard Assessment	02	Elective
GEO	5207	GIS and RS for Flood Monitoring and Impact Assessment	02	Elective
GEO	5208	Advanced Spatial Programming and Machine Learning	02	Elective
GEO	5209	Spatial Modeling and Analysis	02	Elective
GEO	5210	Spatial Information Engineering	02	Elective
GEO	5301	Research Work (Satisfactory/Unsatisfactory)	03	Compulsory

C. Semester: Research Semester

Alphabetic Code	Numeric Code	Course Title	Credit Hour	Compulsory/ Elective
GEO	5301	Research Work (Satisfactory/Unsatisfactory)	02	Compulsory
GEO	5302	Thesis Evaluation	05	Compulsory
GEO	5303	Thesis Defense	03	Compulsory