

SYLLABUS FOR
M.Sc. COURSE IN PHYSIOLOGY

(With effect from the session 2020–22)
[CHOICE BASED CREDIT SYSTEM]



DEPARTMENT OF PHYSIOLOGY
THE UNIVERSITY OF BURDWAN
WEST BENGAL
INDIA

Semester III**[Credits – 24]**

Course code	Type	Course		Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
		T/P	Name			I.A.	E.T	Total	
MSPY301	Core	T	Endocrinology and Bioinstrumentation	4	2	10	40	50	4
MSPY302	Core	T	Biostatistics and Computer Application	4	2	10	40	50	4
MSPY303	Core	P	Biostatistics and Computer Application	8	4	10	40	50	4
MSPY304	GE	T	Environmental Physiology and Occupational Health	2	1	5	20	25	2
MSPY305*	DE1	T	Nutrition and Dietetics	4	2	10	40	50	4
MSPY305**	DE2	T	Endocrinology and Reproduction	4	2	10	40	50	4
MSPY305***	DE3	T	Ergonomics and Occupational Health	4	2	10	40	50	4
MSPY305****	DE4	T	Environmental Physiology	4	2	10	40	50	4
MSPY305*****	DE5	T	Sports and Exercise Physiology	4	2	10	40	50	4
MSPY306*	DE1	P	Nutrition and Dietetics	8	4	10	40	50	4
MSPY306**	DE2	P	Endocrinology and Reproduction	8	4	10	40	50	4
MSPY306***	DE3	P	Ergonomics and Occupational Health	8	4	10	40	50	4
MSPY306****	DE4	P	Environmental Physiology	8	4	10	40	50	4
MSPY306*****	DE5	P	Sports and Exercise Physiology	8	4	10	40	50	4
MSPY307	CE	(NA) T/P	Community Health Assessment #	N.A.	N.A.	5	20	25	2
Total credit								300	24

T/P: Theory/Practical

CE: Community Engagement Activities; DE: Discipline-centric Elective; GE: Generic elective

* MSPY305 / 306-DE1;

**MSPY305 / 306-DE2,

*** MSPY305 / 306-DE3;

**** MSPY305 / 306-DE4,

***** MSPY305 / 306- DE5

DE: Discipline-centric Elective (Students need to take any one of these Discipline-centric Electives)**DE1= Nutrition and Dietetics (COURSE CODE: MSPY 305-DE1 and MSPY 306-DE1)****DE 2= Endocrinology and reproductive Physiology (COURSE CODE: MSPY 305-DE 2 and MSPY 306-DE2)****DE 3= Ergonomics and Occupational health (COURSE CODE: MSPY 305-DE3 and MSPY 306-DE3)****DE4=Environmental Physiology (COURSE CODE: MSPY 305-DE4 and MSPY 306-DE4)****DE5= Sports & Exercise Physiology (COURSE CODE: MSPY 305-DE5 and MSPY 306-DE5)****# Broad Community Engagement Programmes/ activities (UGC Prescribed)**

1. Appreciation of Rural Society
2. Understanding Rural Society
3. Rural Institutions
4. Rural Development Programmes, etc.

(For details see National Curriculum Framework and Guidelines, UGC, January 2020, page 1

Semester IV**[Credits – 24]**

Course				Lect. Hr /week	Dur. of Exam (in H)	Marks			Credit
Course code	Type	T/P	Name			I.A.	E.T	Total	
MSPY401	Core	T	Developmental Biology and Population Science	4	2	10	40	50	4
MSPY402	Core	T	Reproductive biology, Environmental Physiology and Evolution	4	2	10	40	50	4
MSPY403	Core	T	Toxicology , Xenobiotics and human health ; Evolutionary Biology	4	2	10	40	50	4
MSPY404*	DE1	T	Nutrition and Dietetics	4	2	10	40	50	4
MSPY404**	DE2	T	Endocrinology and Reproduction	4	2	10	40	50	4
MSPY404***	DE3	T	Ergonomics and Occupational Health	4	2	10	40	50	4
MSPY404****	DE4	T	Environmental Physiology	4	2	10	40	50	4
MSPY404*****	DE5	T	Biomechanics, Kinesiology in sports and exercise	4	2	10	40	50	4
MSPY405*	DE1	P	Nutrition and Dietetics	8	4	10	40	50	4
MSPY405**	DE2	P	Endocrinology and Reproduction	8	4	10	40	50	4
MSPY405***	DE3	P	Ergonomics and Occupational Health	8	4	10	40	50	4
MSPY405****	DE4	P	Environmental Physiology	4	2	10	40	50	4
MSPY405*****	DE5	P	Biomechanics, Kinesiology in sports and exercise	4	2	10	40	50	4
MSPY406	Project	T/P (NA)	Dissertation ss (Empirical or Non empirical)					50	4
								300	24

*MSPY404 / 405-DE1; **MSPY404 / 405-DE2, **MSPY404 / 405-DE3; **** MSPY404 / 405-DE4; ***** MSPY404 / 405-DE5

DE: Discipline-centric Elective: Based on Discipline-centric Elective taken in Semester -III

SS Based on Discipline-centric Elective

DE Course Code: MSPY 404-DE1, MSPY 404-DE2, MSPY 404-DE3, MSPY 404-DE4, MSPY 404-DE5

DE Course Code: MSPY 405-DE1, MSPY 405-DE2, MSPY 405-DE3, MSPY 405-DE4, MSPY 405-DE5

Guidelines of Question Pattern:

In each course of 50 marks (4 credits/) the End-semester examination shall be of 40 marks (10 marks Mid-sem examination/Continuous Assessment based on class test, assignment, seminar, etc. modalities for which are to be decided by the concerned course-in-charge and to be notified to the students at the beginning of the semester). In End-semester, there shall be 8 questions of 10 marks each from which 4 questions are to be answered by the candidates (Time 2 hours).

2. In each course of 50 marks (4 credits) which has two groups within it the End-semester examination shall be of 40 marks. There shall be 4 questions of 10 marks from each group. Candidates are to answer 4 questions taking 2 from each group. (Time 2 hours).

Guidelines for Evaluation Pattern:

Notes on marks distribution:

☐ The performance of a candidate in a theoretical course (paper) will be assessed for a maximum of 50 marks as explained below (except the courses DEPT 307 and DEPT 406 which are discussed later):

☐ 40 marks as end-semester examination

☐ 10 marks as Continuous Assessment based on class test, assignment, seminar etc, modalities for which are to be decided by the concerned course-in-charge and notified to the students at the beginning of the semester

MSPY 406 (Project paper/Practical Paper):

Based on Survey Report, Assignment, Presentation and Viva-Voce.

Field survey and project Writing: 40 marks

Presentation and Viva-Voce (in the presence of external experts from other Universities/Institutions): 10 marks

**** MSPY 307 CE: Community Engagement Activities**

Students have to participate in the Community Engagement programmes/ activities of the department for the concerned year and follow it up with a written Report & Presentation and Viva-Voce. The main objectives are to develop an appreciation of rural culture, lifestyle and wisdoms among students, to learn about the states of various agricultural and rural development programmes, to understand causes for rural distress and poverty and explore solutions for the same and to apply class room knowledge of courses to field realities. Evaluation pattern would be as follows:

Report writing: 20 marks

☐ Presentation and viva-voce: 5 marks (in the presence of external expert(s) from other Departments of the Home University)