

# **Manipal College of Health Professions**

# **Manipal Academy of Higher Education, Manipal**

Outcome-Based Education (OBE) Framework

Two Years Full Time
Postgraduate Program
(Choice - Based Credit System)

Master of Science in Exercise and Sports Science

(MSc. ESS)

With effect from July 2021



# 6. COURSE STRUCTURE, COURSE WISE LEARNING OBJECTIVE, AND **COURSE OUTCOMES (COs)**

#### **SEMESTER - I**

Course Code	Course Title			edit ibuti s/we	-	Marks Distribution		
		L	T	Р	CR	IAC	ESE	Total
ABS5101	Advanced Biostatistics & Research Methodology	3	1	ı	4	30	70	100
ESS5121	Introduction to Sport - Rules, Skills 1 - 4 3 and Equipment		50	50	100			
ESS5122	Athletic Training and Injury Prevention	1	-	4	3	50	50	100
ESS5101	Biomechanics in Sport	1	1	-	2	50	50	100
ESS5102	Foundations of Sports Nutrition	3	-	-	3	50	50	100
ESS5103	Foundations of Sport and Exercise Psychology		1	-	3	50	50	100
ESS5104	Physical Activity Guidelines in Health and Disease		1	-	2	50	50	100
ESS5111	Biomechanics in Sport Practicum	4 2				50	50	100
Total 13 3 12 22						380	420	800

#### Note:

ESE for ABS5101 will be conducted as a theory exam for 50 marks and normalized to 70marks

ESE for ESS5121, ESS5122 and ESS5111 will be practical only

ESE for ESS5101, ESS5102, ESS5103, and ESS5104 will be theory only

#### **SEMESTER - II**

Course Code	Course Title			stribu /weel	-	Marks Distribution		
Code		L	T	Р	CR	IAC	ESE	Total
EPG5201	Ethics & Pedagogy	1	1		2	100	-	100
ESS5201	Foundations of Strength and Conditioning		1	-	2	50	50	100
ESS5202	Foundations of Exercise 1 1 - 2 Physiology		2	50	50	100		
ESS5203	Essentials of Performance Analysis		1	-	3	50	50	100
ESS5204	Foundations of Sports Management	2	-	-	2	50	50	100
ESS5211	Foundations of Strength and Conditioning Practicum	-	-	4	2	50	50	100
ESS5212	Foundations of Exercise Physiology Practicum		-	4	2	50	50	100
ESS5213	Practical Training	Training				100	-	100
	14	18	500	300	800			

ESE for ESS5211 and ESS5212 will be practical only ESE for EPG5201, ESS5201, ESS5202, ESS5203, and ESS5204 will be theory only



#### **SEMESTER - III**

Course Code	Course Title	_	Distr	redit ibuti s/we	ion	Marks Distribution		
		L	T	Р	CR	IAC	ESE	Total
ESS6101	Advanced Strength and Conditioning	2	1	-	3	50	50	100
ESS6102	Advanced Exercise Physiology	2	1	-	3	50	50	100
ESS6170	Thesis Proposal		-	6	2	100	-	100
ESS6111	Advanced Strength and Conditioning Practicum	-	-	6	3	50	50	100
ESS6112	Advanced Exercise Physiology Practicum		-	6	3	50	50	100
ESS****	Program Elective		1	-	3	50	50	100
ESS****	Program Elective Practicum			6	3	50	50	100
Total 6 3 24				20	400	300	700	

#### Note:

The students may choose any one option from the list of program elective combinations from the table below.

ESE for ESS6101, ESS6102, will be conducted as a theory exam for 100 marks and normalized to 50marks

ESE for ESS6111 and ESS6112 be conducted as a practical exam for 100 marks and normalized to 50marks

#### **SEMESTER - IV**

Course Code	Course Title	Credit Distribution (hours/week)		Marks Distribution					
		L	Т	Р	PW	CR	IAC	ESE	Total
ESS6280	Thesis	-	-	-	36	12	50	50	100
ESS6201	Entrepreneurship and Innovation	2	-	-	-	2	100	-	100
ESS6211	Internship	-	-	12	-	6	100	-	100
	Total	2	-	12	36	20	250	50	300
ESE for ESS6280 will be conducted as a thesis defense practical exam.									

#### **Program Electives**

Program elective is credited and choice-based. The students make a choice from pool of electives offered by the department. The ESE is conducted for 50 marks.



### LIST OF PROGRAM ELECTIVE

**Program Elective** 

Option	Course Code	Course Title	С	on		
-	Code		L	CR		
1	ESS6011	Advanced Sports Biomechanics	2	1	-	3
	ESS6012	Advanced Sports Biomechanics - Practicum	-	-	6	3
2	ESS6021	Advanced Physical Activity	2	1	-	3
	ESS6022	Advanced Physical Activity - Practicum	-	-	6	3

**Note:** ESE for ESS6011 and ESS6021 will be conducted as a theory exam ESE for ESS6012 and ESS6022 will be conducted as a practical exam

#### **OVERALL CREDIT DISTRIBUTION**

Semester		Credit di	stribu	tion		Marks Distributio			
	L	Т	Р	PW	CR	IAC	ESE	Total	
I - SEMESTER	13	3	12	-	22	380	420	800	
II - SEMESTER	7	4	14	-	18	500	300	800	
III - SEMESTER	6	3	24	-	20	400	300	700	
IV - SEMESTER	2	-	12	36	20	25	50	300	
<b>Grand Total</b>	28	10	62	36	80	1305	1070	2600	

# INTERNAL ASSESSMENT COMPONENT (IAC) WEIGHTAGE DISTRIBUTION

Theory		Practical					
Components	%	Components	%				
Mid semester exam	60	Mid semester exam	80				
Class Participation	20	Class Participation	20				
Assignments/Seminar	20						