

(SOSE)(BPed)

Title of the Course	Sports Training
Course Code	CC-201

Part A

Year	2nd	Credits	L	Т	Р	С		
	2110	200			1	0	4	
Course Type	Theory only							
Course Category	Discipline Core							
Pre-Requisite/s	Basic knowledge of sports and p	hysical education	Co-Requisite/s					
Course Outcomes & Bloom's Level	 CO1- List and Define various Training components (BL1-Remember) CO2- Explain various Training processes.(BL2-Understand) CO3- Use various training plans to design a workout(BL3-Apply) CO4- Categorize various training load and training intensity according to different sports(BL4-Analyze) CO5- Compare various training methods and find out the best suitable method for an athlete.(BL5-Evaluate) CO6- Formulate a new training program according to the modern demand of the sports.(BL6-Create) 							
Coures Elements	Skill Development ✓ Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender ✓ Human Values × Environment ×	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG15(Life on land)					

Part B

Modules	Contents	Pedagogy	Hours
UNIT 1	o Meaning and Definition of Sports Training o Aim and Objective of Sports Training o Principles of Sports Training o System of Sports Training – Basic Performance, Good Performance and High Performance Training	quiz, lecture methodology, group discussion	15
UNIT 2	o Strength – Mean and Methods of Strength Development o Speed – Mean and Methods of Speed Development o Endurance - Mean and Methods of Endurance Development o Coordination – Mean and Methods of coordination Development o Flexibility – Mean and Methods of Flexibility Development	quiz, lecture methodology, group discussion	15
UNIT 3	o Training Load- Definition and Types of Training Load o Principles of Intensity and Volume of stimulus o Technical Training – Meaning and Methods of Technique Training o Tactical Training – Meaning and Methods of Tactical Training	quiz, lecture methodology, group discussion	15
UNIT 4	o Periodization – Meaning and types of Periodization o Aim and Content of Periods – Preparatory, Competition, Transitional etc. o Planning – Training session o Talent Identification and Development	quiz, lecture methodology, group discussion	15

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT- 4	design a new timetable for course	PBL	BL6-Create	2

	Theory							
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation			
100	32	70	23	30	9			
		•	Practical	•				
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation			
0	0	0	0	0	0			

Pa	rt	Ε

Books	Science of sports Training
Articles	
References Books	Sports training principles
MOOC Courses	
Videos	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	3	2	-	-	-	-	-	-	-	-	-	-	-
CO2	2	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
CO4	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Computer Applications in Physical Education
Course Code	CC-202

Pa	rt .	A
----	------	---

Year	2nd	Credits	L	Т	Ρ	С		
Tour			orouno	3	1	0	4	
Course Type	Theory only							
Course Category	Discipline Core							
Pre-Requisite/s	Basic knowledge of operating com	puter	Co-Requisite/s					
Course Outcomes & Bloom's Level	CO1- Identify the use of computer and various software in the field of Physical Education.(BL1- Remember) CO2- Explain the use on MS excel, power point and Word in Physical Education.(BL2-Understand) CO3- Use various computer software efficiently in teaching learning process in physical education.(BL3- Apply)							
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG4(Quality education)					

Part	В
------	---

Modules	Contents	Pedagogy	Hours
UNIT 1	o Meaning, need and importance of information and communication technology (ICT). o Application of Computers in Physical Education o Components of computer, input and output device o Application software used in Physical Education and sports	quiz, lecture methodology, background of concepts	15
UNIT 2	o Introduction to MS Word o Creating, saving and opening a document o Formatting Editing features Drawing table, o page setup, paragraph alignment, spelling and grammar check printing option, inserting page number, graph, footnote and notes	quiz, lecture methodology, background of concepts	15
UNIT 3	o Introduction to MS Excel o Creating, saving and opening spreadsheet o creating formulas o Format and editing features adjusting columns width and row height understanding charts.	quiz, lecture methodology, background of concepts	15
UNIT 4	o Introduction to MS Power Point o Creating, saving and opening a ppt. file o format and editing features slide show , design , inserting slide number o picture ,graph ,table o Preparation of Power point presentations	quiz, lecture methodology, background of concepts	15

Theory											
Total Minimum Passing Marks Marks		External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation						
100	32	70	23	30	9						
			Practical	·							
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation						
0	0	0	0	0	0						

Part E										
Books Sinha, P. K. & Sinha, P. (n.d.) Computer fundamentals. 4th BPB Publication										
Articles										
References Books	Irtegov, D. Operating system fundamentals. 2004 Firewall Media.									
MOOC Courses										
Videos										

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO2	1	2	-	3	3	-	-	-	-	-	-	-	-	-	-
CO3	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Sports Psychology and Sociology
Course Code	CC-203

		Part A					
Year	2nd		Credits	L	Т	Ρ	С
			orcuits	3	1	0	4
Course Type	Theory only						
Course Category	Discipline Core						
Pre-Requisite/s	basic knowledge of psychology a psychology	nd sports	Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- Recall meaning and import CO2- Explain relationship betwee CO3- Apply the concepts of sport CO4- Analyse mental preparation CO5- Evaluation of sports perforr Evaluate) CO6- Develop new ways of dealing sports.(BL6-Create)	en social science and s psychology in Phys n strategies, aggression nance after application	Physical Education(BL2-U tical education.(BL3-Apply on and stress in sports(BL4 on of various sports psychol) 1-Ana logy c	lyze) :oncep	ots. (BL	
Coures Elements	Skill Development X Entrepreneurship X Employability ✓ Professional Ethics X Gender ✓ Human Values ✓ Environment ✓	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and well-being) SDG4(Quality education) SDG6(Clean water and sanitation) SDG7(Affordable and clean energy) SDG15(Life on land)				

Part	В
------	---

Modules	Contents	Pedagogy	Hours
UNIT-1	o Meaning, Importance and scope of Educational and Sports Psychology o General characteristics of Various Stages of growth and development o Types and nature of individual differences; Factors responsible -Heredity And environment o Psycho- sociological aspects of Human behavior in relation to physical education and sports	direct instructions, quiz activity	15
Unit-2	o Nature of learning, theories of learning, Laws of learning, o Plateau in Learning; & transfer of training o Meaning and definition of personality, characteristics of personality, o Dimension of personality, Personality and Sports performance o Nature of motivation: Factors influencing motivation; Motivation and techniques and its impact on sports performance. o Mental Preparation Strategies: Attention focus, Self- talk, Relaxation, Imaginary. o Aggression and Sports, Meaning and nature of anxiety, Kinds of anxiety o Meaning and nature of stress; Types of stress, Anxiety, Stress, Arousal and their effects on sports performance	lectures/ cooperative learning	15
UNIT-3	o Orthodoxy, customs, Tradition and Physical Education. o Festivals and Physical Education. o Socialization through Physical Education. o Social Group life, Social conglomeration and Social group, Primary group and Remote group.	peer teaching and quiz activities	15
UNIT 4	o Features of culture, o Importance of culture. o Effects of culture on people life style. o Different methods of studying Observation/ Inspection method, Questionnaire method, Interview method	lecture, quiz and cooperative learninig	15

	Theory											
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation							
100	32	70	23	30	9							
	-		Practical	_								
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation							

Books	1. S.K.Mangal, Shubhra Mangal Sports Psychology 1st SAGE publications Private Limited
Articles	
References Books	 1- Ball, D. W. & Loy, J. W. Sport and social order; Contribution to the sociology of sport. 1975 London: Addison Wesley Publishing Co., Inc. 2- Blair, J.& Simpson, R. Educational psychology, 1962 New York:McMillan Co. 3- Cratty, B. J. Psychology and physical activity. 1968 Eaglewood Cliffs. Prentice Hall. 4 Kamlesh, M.L. Psychology inphysical education and sport. 1998 New Delhi:Metropolitan Book Co. 5 Loy, J. W., Kenyon, G. S. & McPherson, B. D. Sport and social system. 1978 Londo Addison Wesley Publishing Company Inc. 6 Loy, J. W., Kenyon, G. S. & McPherson, B. D. Sports culture and society. 1981 Philadelphia: Lea & Febiger. 7 Mathur, S.S., Educational psychology. 1962 Agra.VinodPustakMandir.
MOOC Courses	
Videos	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	2	2	-	-	-	-	-	-	-	-	-	-	-
CO2	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-
CO3	2	2	2	2	3	-	-	-	-	-	-	-	-	-	-
CO4	2	-	1	3	-	-	-	-	-	-	-	-	-	-	-
CO5	2	1	-	2	-	-	-	-	-	-	-	-	-	-	-
CO6	1	-	1	-	-	2	-	-	-	-	-	-	-	-	-

Course Articulation Matrix

Part E



(SOSE)(BPed)

Title of the Course	Measurement and Evaluation in Physical Education
Course Code	CC-204

		artiv				-	
Year	2nd Credits		Credits	L	Т	Ρ	С
			erealte	3	1	0	4
Course Type	Theory only	Theory only					
Course Category	Discipline Core						
Pre-Requisite/s	basic knowledge about sports, sports physical education of 11 and 12 class	Co-Requisite/s					
Course Outcomes & Bloom's Level	CO1- Identify various physical fitness tests and sports skill tests(BL1-Remember) CO2- Summarize classification of tests and their evaluation procedure.(BL2-Understand) CO3- Demonstrate various physical fitness tests and skill tests(BL3-Apply)						
Coures Elements	Skill Development X Entrepreneurship X Employability √ Professional Ethics X Gender X Human Values X Environment √	SDG3 (Good health and well-being) SDG4(Quality education) SDG15(Life on land))	

Part B

Modules	Contents	Pedagogy	Hours
UNIT 1	o Meaning of Test & Measurement & Evaluation in Physical Education o Need & Importance of Test & Measurement & Evaluation in Physical Education o Principles of Evaluation	quiz, lecture methodology, group discussion	15
UNIT 2	o Criteria of good Test o Criteria of tests, scientific authenticity (reliability, objectivity, validity and availability of norms) o Type and classification of Test o Administration of test, advance preparation – Duties during testing – Duties after testing.	quiz, lecture methodology, group discussion	15
UNIT 3	o AAHPER youth fitness test o National physical Fitness Test o Indiana Motor Fitness Test o JCR test o U.S Army Physical Fitness Test	quiz, lecture methodology, group discussion	15
UNIT 4	o Lockhart and McPherson badminton test o Johnson basketball test o McDonald soccer test o S.A.I volleyball test o S.A.I Hockey test	quiz, lecture methodology, group discussion	15

			Theory		
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	32	70	23	30	9
		·	Practical		-
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
0	0	0	0	0	0

Part E

Books	Kansal D. K Test and measurement in sports and physical education 1996 New Delhi: D.V.S. Publications. Kansal D. K Test and measurement in sports and physical education 1996 New Delhi: D.V.S. Publications.
Articles	
References Books	Bangsbo, J. Fitness training in football: A scientific approach. 1994 Bagsvaerd, Denmark: Ho+Storm.
MOOC Courses	
Videos	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	2	3	-	-	-	-	-	-	-	-	-	-	-
CO2	2	2	-	-	3	-	-	-	-	-	-	-	-	-	-
CO3	1	1	2	3	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Kinesiology and Biomechanics
Course Code	CC-205

Part A	
--------	--

	T dit/t							
Year	2nd		Credits	L	Т	Р	С	
			Cicuits	3	1	0	4	
Course Type	Theory only							
Course Category	Discipline Core							
Pre-Requisite/s	basic science knowledge of sc	hool level	Co-Requisite/s					
Course Outcomes & Bloom's Level	CO1- Recall the concepts of kinesiology and biomechanics(BL1-Remember) CO2- Explain various mechanical concepts, kinetics and Kinematics of human Movement(BL2- Understand) CO3- Apply Kinetics and Kinematics concepts in the field of physical Education(BL3-Apply)							
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG15(Life on land)					

Part	В
------	---

Modules	Contents	Pedagogy	Hours
UNIT 1	.Introduction to Kinesiology and biomechanics o Meaning and Definition of Kinesiology and Sports Biomechanics o Importance of Kinesiology and Sports Biomechanics to Physical Education Teacher, Athletes and Sports Coaches. o Terminology of Fundamental Movements o Fundamental concepts of following terms – Axes and Planes, Centre of Gravity, Equilibrium, Line of Gravity	quiz, lecture methodology, group discussion	15
UNIT 2	Fundamental Concept of Anatomy and Physioloy o Classification of Joints and Muscles o Types of Muscle Contractions o Posture – Meaning, Types and Importance of good posture. Fundamental concepts of following terms- Angle of Pull, All or None Law, Reciprocal	quiz, lecture methodology, group discussion	15
UNIT 3	Mechanical Concepts o Force - Meaning, definition, types and its application to sports activities o Lever - Meaning, definition, types and its application to human body. o Newton's Laws of Motion – Meaning, definition and its application to sports activities. o Projectile – Factors influencing projectile trajectory.	quiz, lecture methodology, group discussion	15
UNIT 4	Kinematics and kinetics of Human Movement o Linear Kinematics – Distance and Displacement, speed and velocity, Acceleration o Angular kinematics – Angular Distance and Displacement, Angular Speed and velocity, Angular Acceleration. o Linear Kinetics – Inertia, Mass, Momentum, Friction. o Angular Kinetics – Moment of inertia ,Couple, Stability.	quiz, lecture methodology, group discussion	15

Theory								
					Min. Internal Evaluation			
100	32	70	23	30	9			
			Practical					
Total MarksMinimum Passing MarksExternal EvaluationMin. External 		Min. Internal Evaluation						
0	0	0	0	0	0			

	Fail E
Books	V. D. Bindal Textbook of Kinesiology 1st JP Brothers Medical Publishers
Articles	
References Books	Bunn, J. W. Scientific principles of coaching. 1972 Englewood Cliffs, N.J.: Prentice Hall Inc.
MOOC Courses	
Videos	

Part E

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	3	3	-	-	-	-	-	-	-	-	-	-	-
CO2	1	-	3	-	3	-	-	-	-	-	-	-	-	-	-
CO3	-	2	2	3	-	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Research and Statistics in Physical Education
Course Code	CC-206

Year	2nd	Credits	L	Т	Ρ	С	
, our		oround	3	1	0	4	
Course Type	Theory only						
Course Category	Discipline Core						
Pre-Requisite/s	basic mathematical skills and knowle class physical education	Co-Requisite/s					
Course Outcomes & Bloom's Level	CO1- Recall and identify the basics of statistics and research(BL1-Remember) CO2- Explain and discuss types of research and research problems(BL2-Understand) CO3- Use various statistical techniques to compare sports performances.(BL3-Apply)						
Coures Elements	Skill Development × Entrepreneurship ✓ Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and v SDG4(Quality education) SDG6(Clean water and s SDG15(Life on land)		0,)	

Part	В
------	---

Modules	Contents	Pedagogy	Hours
UNIT 1	Introduction to Research o Definition of Research o Need and importance of Research in Physical Education and Sports. o Scope of Research in Physical Education & Sports. o Classification of Research o Research Problem, Meaning of the term, Location and criteria of Selection of Problem, Formulation of a Research Problem, Limitations and Delimitations.	case study, quiz, group discussion	15
UNIT 2	Survey of Related Literature o Need for surveying related literature. o Literature Sources, Library Reading o Research Proposal, Meaning and Significance of Research Proposal. o Preparation of Research proposal / project. o Research Report: A group project is to be undertaken by a small batch of students under the supervision of a teacher, wherein it is expected to survey school facilities of physical education, health assessment programme evaluation, fitness status of the students, staff and other stakeholders etc. and submit the report to the institution.	case study, quiz, group discussion	15
UNIT 3	Basics of Statistical Analysis o Statistics: Meaning, Definition, Nature and Importance o Class Intervals: Raw Score, Continuous and Discrete Series, Class Distribution, Construction of Tables o Graphical Presentation of Class Distribution: Histogram, Frequency Polygon, Frequency Curve. Cumulative Frequency Polygon, Ogive, Pie Diagram	case study, quiz, group discussion	15
UNIT 4	Statistical Models In Physical Education and Sports o Measures of Central Tendency: Mean, Median and Mode-Meaning, Definition, Importance, Advantages, Disadvantages and Calculation from Group and Ungrouped data o Measures of Variability: Meaning, importance, computing from group and ungroup data o Percentiles and Quartiles: Meaning, importance, computing from group and ungroup data	case study, quiz, group discussion	15

			Theory				
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation		
100	32	70	23	30	9		
			Practical		· ·		
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation		
0	0	0	0	0	0		

Books	J.P. Verma M. Ghufran Statistics for Psychology 1st McGraw Hill Education
Articles	
References Books	Best, J.W. Research in education 1963 U.S.A.: Prentice Hall.
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	-	3	2	-	-	-	-	-	-	-	-	-	-	-
CO2	1	2	3	-	-	-	-	-	-	-	-	-	-	-	-
CO3	2	-	3	-	2	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Part E



(SOSE)(BPed)

Title of the Course	CURRICULUM DESIGN
Course Code	EC-207

		Part A	-		_		
Voor	Year 2nd C		Credits	L	т	Р	С
Tear			Creats	3	1	0	4
Course Type	Theory only				1		•
Course Category	Discipline Core						
Pre-Requisite/s	General Knowledge about timeta	able and syllabus	Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- Recall basic guidelines for CO2- Explain the old and new co CO3- Use of basic principles of o Apply) CO4- Analysis of Under-graduate CO5- Determine the limitations in CO6- Formulate a curriculum pro-	oncept of curriculum (curriculum constructione professional preparent constructioned preparent construction of an e	BL2-Understand) on for effective curriculum ation(BL4-Analyze) ffective curriculum(BL5-E	valuat	te)		te)
Coures Elements	Skill Development × Entrepreneurship × Employability × Professional Ethics × Gender × Human Values √ Environment ×	SDG (Goals)	SDG3(Good health and SDG4(Quality education SDG15(Life on land)		eing)		

Part	В
------	---

Modules	Contents	Pedagogy	Hours
UNIT 1	Modern Concept of the curriculum o Need and importance of curriculum, Need and importance of curriculum development, the role of the teacher in curriculum development. o Factors affecting curriculum - Social factors - Personnel qualifications - Climatic consideration - Equipment and facilities -Time suitability of hours. o National and Professional policies, Research finding	quiz, lecture methodology, group discussion	15
UNIT 2	Basic Guideline for Curriculum Construction o Focalization o Socialization o Individualization o Sequence and operation o Steps in curriculum construction.	quiz, lecture methodology, group discussion	15
UNIT 3	Curriculum old and new concepts, Mechanisms of curriculum Planning o Basic principles of curriculum construction. o Curriculum Design, Meaning, Importance and factors affecting curriculum design. o Principles of Curriculum design according to the needs of the students and state and national level policies. o Role of Teachers	quiz, lecture methodology, group discussion	15
UNIT 4	Undergraduate preparation of graduates Areas of Health education, Physical education and Recreation. o Curriculum design-Experience of Education, Field and Laboratory. o Teaching practice. o Professional Competencies to be Developed-Facilities and special resources for library, laboratory and other facilities.	quiz, lecture methodology, group discussion	15

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT- 4	design a new timetable for course	PBL	BL6-Create	2

Part D(Marks Distribution)

			Theory		
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	32	70	23	30	9
			Practical		·
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	0				

Books	Dalvinder Singh Sports Management and Curriculum Design in Physical Education 2018 Friends Publication India
Articles	
References Books	Barrow, H. M. Man and movement: principles of physical education. 1983 Philadelphia: Lea and Febiger.
MOOC Courses	
Videos	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	2	3	-	2	-	-	-	-	-	-	-	-	-	-
CO3	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
CO4	2	-	2	-	3	-	-	-	-	-	-	-	-	-	-
CO5	-	3	-	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-

Course Articulation Matrix

Part E



(SOSE)(BPed)

Title of the Course	SPORTS MANAGEMENT
Course Code	EC-208

		Part A					
Year	2nd		Credits	L	Т	Р	С
				3	1	0	4
Course Type	Theory only						
Course Category	Discipline Core						
Pre-Requisite/s	General knowledge about daily man physical education	nagement and	Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- Recite about leadership its el CO2- Explain about management c CO3- Apply the budgeting system i	of sports in schools and	universities.(BL2-Unders	tand)		r)	
Coures Elements	Skill Development X Entrepreneurship ✓ Employability ✓ Professional Ethics X Gender X Human Values X Environment ✓	SDG (Goals)	SDG3(Good health and v SDG4(Quality education) SDG6(Clean water and s SDG15(Life on land))	0,		

Part E	3
--------	---

Modules	Contents	Pedagogy	Hours
UNIT 1	o Nature and Concept of Sports Management. o Progressive concept of Sports management. o The purpose and scope of Sports Management. o Essential skills of Sports Management. o Qualities and competencies required for the Sports Manager. o Event Management in physical education and sports.	group discussion, lecture methodology.	15
UNIT 2	o Meaning and Definition of leadership o Leadership style and method. o Elements of leadership. o Forms of Leadership. • Autocratic • Laissez-faire • Democratic • Benevolent Dictator o Qualities of administrative leader. o Preparation of administrative leader. Leadership and Organizational performance.	group discussion, lecture methodology.	15
UNIT 3	o Sports Management in Schools, colleges and Universities. o Factors affecting planning o Planning a school or college sports programme. o Directing of school or college sports programme. o Controlling a school, college and university sports programme. • Developing performance standard • Establishing a reporting system • Evaluation • The reward/punishment system	group discussion, lecture methodology.	15
UNIT 4	o Financial management in Physical Education & sports in schools, Colleges and Universities. o Budget – Importance, Criteria of good budget, o Steps of Budget making o Principles of budgeting	group discussion, lecture methodology.	15

		Theory		
Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
32	70	233	30	9
	•	Practical		
Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
	Marks 32 Minimum Passing	Marks Evaluation 32 70 Minimum Passing External	Minimum Passing MarksExternal EvaluationMin. External Evaluation3270233PracticalMinimum PassingExternalMin. ExternalMin. External	Minimum Passing MarksExternal EvaluationMin. External EvaluationInternal Evaluation327023330PracticalMinimum PassingExternalMin. ExternalInternal

Part E							
Books	Books Dr. Samiran Chakraborty. Sports Management 2007 Prerna Prakashan						
Articles							
References Books	Ashton, D. Administration of physical education for women. 1968 New York: The Ronal Press Cl.						
MOOC Courses							
Videos							

Part E

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-
CO2	1	2	2	3	-	-	-	-	-	-	-	-	-	-	-
CO3	2	-	3	2	3	-	-	-	-	-	-	-	-	-	-
CO4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Track and Field (Throwing Events
Course Code	PC-208

Part A									
Year	2nd	Credits	L	т	Р	С			
Tear	2110		Credits	0	0	2	2		
Course Type	Lab only				•				
Course Category	Discipline Core								
Pre-Requisite/s	basic knowledge of athletics		Co-Requisite/s						
Course Outcomes & Bloom's Level	CO1- Recognize basic skills and techniques of throwing events. (BL1-Remember) CO2- Explain various techniques of throwing events.(BL2-Understand) CO3- Perform different throwing techniques to enhance performance.(BL3-Apply) CO4- Analyze techniques and interpret rules related to throwing events.(BL4-Analyze) CO5- Evaluate personal skills and suggest strategies for improvement.(BL5-Evaluate)								
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG1(No poverty) SDG2(Zero hunger) SDG3(Good health and w SDG4(Quality education) SDG7(Affordable and clear SDG15(Life on land)		0,				

Part B

Modules	Contents	Pedagogy	Hours
UNIT-1	Track and fields (Throwing Events) o Discus Throw, Javelin, Hemmer throw, shot-put o Basic Skills and techniques of the Throwing events o Ground Marking / Sector Marking o Interpretation of Rules and Officiating. o Grip o Stance o Release o Reserve/ (Follow through action) o Rules and their interpretations and duties of officials	experiential, problem based, skill practice learning	60

			Theory					
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation			
	Practical							
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation			
100	32	70	23	30	9			

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	2	2	-	-	-	-	-	-	-	-	-	-	-
CO2	1	3	3	2	2	-	-	-	-	-	-	-	3	3	1
CO3	1	2	-	2	2	2	-	-	-	-	-	-	3	2	-
CO4	2	3	2	-	-	-	-	-	-	-	-	-	-	-	-
CO5	-	2	2	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	TAEKWONDO
Course Code	PC-209

Part A										
Year	2nd		Credits	L	Т	Ρ	С			
Tear			Oreans	0	0	2	2			
Course Type	Lab only									
Course Category	Discipline Core									
Pre-Requisite/s	Co-Requisite/s									
Course Outcomes & Bloom's Level	CO1- Recall basic stances and punching techniques. (BL1-Remember) CO2- Explain various kicking techniques and forms.(BL2-Understand) CO3- Perform sparring techniques and forms.(BL3-Apply) CO4- Analyze opponent movements during sparring.(BL4-Analyze) CO5- Evaluate personal progress and develop strategies.(BL5-Evaluate)									
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and well-being) SDG4(Quality education) SDG15(Life on land)							

Part B

Modules	Contents	Pedagogy	Hours
---------	----------	----------	-------

	s ret	\sim
Pe	11 L	C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT 1	Taekwondo Fundamental Skills o Player Stances walking, extending walking, L stance, cat stance. o Fundamental Skills Sitting stance punch, single punch, double punch, triple punch. o Punching Skill from sparring position front-fist punch, rear fist punch, double punch, and four combination punch. o Foot Tenchniques (Balgisul) standing kick (soseochagi), Front kick (AP chagi), Arc kick (BandalChagi), Side kick, (YeopChagi), Turning kick (DollyoChagi), Back kick (Twit Chagi), Reverse turning kick (BandaeDollyoChagi), Jump kick (TwimyoChagi), o Poomsae (Forms) Jang, Yi Jang, Sam Jang, Sa Jang, O Jang, Yook Jang, Chil Jang, Pal Jang (Fundamental Movement eye control, concentration of spirit, speed control, strength control, flexibility, balance, variety in techniques) o Sparring (Kyorugi) One Step Sparring (hand techniques, foot techniques, self defense techniques, combination kicks), Free Sparring. o Board Breaking (Kyokpa) eye control, balance, power control, speed, point of attack. o Rules and their interpretations and duties of officials.	Games	BL3-Apply	2

			Theory		
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
			Practical		
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	32	70	23	30	9

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

Course Articulation Matrix

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO2	1	-	3	2	3	-	-	-	-	-	-	-	-	-	-
CO3	3	2	-	3	-	-	-	-	-	-	-	-	-	-	-
CO4	2	3	3	-	-	-	-	-	-	-	-	-	-	-	-
CO5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	VOLLEYBALL
Course Code	PC-210

	-	Part A	-		-		
Year	2nd	Credits	L	Т	Р	С	
Tear			Credits	0	0	2	2
Course Type	Lab only						
Course Category	Discipline Core						
Pre-Requisite/s			Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- Recognize proper playe CO2- Discuss various hitting a CO3- Apply defensive strateg CO4- Analyze opponent strate CO5- Evaluate personal performance	and serving techniquies including digging egies and adjust definition of the service of the serv	ues.(BL2-Understand) g and blocking.(BL3-Appl fensive positioning.(BL4-A	y) Inalyze			
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and SDG4(Quality education SDG15(Life on land)		ing)		

Part B

Modules	Contents	Pedagogy	Hours

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT 1	Players Stance-Receiving the ball and passing to the team mates, o The Volley (Over head pass), o The Dig(Under hand pass). o Service-Under Arm Service, Side Arm Service, Tennis Service, Round Arm Service. o Rules and their interpretations and duties of officials.	Games	BL3-Apply	2

			Theory		
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
		<u> </u>	Practical		
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation
100	32	70	23	30	9

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

			1	1							i	i			
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO2	1	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO3	1	2	-	3	3	-	-	-	-	-	-	-	-	-	-
CO4	-	3	2	-	2	-	-	-	-	-	-	-	-	-	-
CO5	2	-	3	-	2	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	CRICKET
Course Code	PC-211

Part A								
Year	2nd		Credits	L	Т	Ρ	С	
icai	Zhu		orcuits	0	0	2	2	
Course Type	Lab only							
Course Category	Discipline Core							
Pre-Requisite/s			Co-Requisite/s					
Course Outcomes & Bloom's Level	CO1- Recall batting, bowling, CO2- Explain advanced battin CO3- Apply defensive and off CO4- Analyze game situation CO5- Evaluate personal perfor	ng strokes and bowl ensive fielding strat s and make strategi	ing variations.(BL2-Unde egies.(BL3-Apply) c decisions.(BL4-Analyz	e)				
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and	well-being)				

Part B

Modules	Contents	Pedagogy	Hours

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT 1	o Batting-Forward and backward defensive stroke o Bowling-Simple bowling techniques o Fielding- Defensive and offensive fielding o Catching-High catching and Slip catching o Stopping and throwing techniques o Wicket keeping techniques	Games	BL3-Apply	60

Theory									
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation				
	Practical								
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation				
100	32	70	23	30	9				

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO3	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-
CO4	2	3	2	3	2	-	-	-	-	-	-	-	-	-	-
CO5	-	-	3	2	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Tennis
Course Code	PC-212

		Part A	-					
Year	2nd		Credits	L	Т	Р	С	
fear	2110		Creats	0	0	2	2	
Course Type	Lab only							
Course Category	Discipline Core							
Pre-Requisite/s			Co-Requisite/s					
Course Outcomes & Bloom's Level	CO1- Recognize different grip CO2- Explain the basic rules of CO3- Demonstrate proper stat CO4- Simplify different serves CO5- Evaluate, identify and s	of tennis regarding s ince, techniques and and techniques. (B	scoring, serving, and officia d footwork. (BL3-Apply) L 4-Analyze)		s. (BL2 -	Unders	stand)	
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and v	(Good health and well-being)				

Part E	3
--------	---

|--|

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT 1	o Grips- Eastern Forehand grip and Backhand grip, Western grip, Continental grip, Chopper grip. o Stance and Footwork. o Basic Ground strokes- Forehand drive, Backhand drive. o Basic service. o Basic Volley. o Over-head Volley. o Chop o Tactics Defensive, attacking in game o Rules and their interpretations and duties of officials.	Games	BL3-Apply	60

Theory									
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation				
	Practical								
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation				
100	32	70	23	30	9				

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

<u> </u>	i	1	1	i	i	1	1	i	i	1	i	1	i	1	i 1
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	-	-	-	-	-	-	-	-	-	-	-	-
CO2	-	2	3	3	3	-	-	-	-	-	-	-	-	-	-
CO3	-	2	-	2	-	-	-	-	-	-	-	-	-	-	-
CO4	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-
CO5	2	-	2	3	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Teaching Practice
Course Code	TP-202

		Part A	-	_			-
Year	2nd	Credits	L	Т	Ρ	С	
leai	2110		Credits	0	0	2	2
Course Type	Lab only			•			
Course Category	Discipline Core						
Pre-Requisite/s			Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- Identify and recall the rul sports.(BL1-Remember) CO2- Explain the fundamental CO3- Adapt teaching strategie CO4- Analyze the strengths an CO5- Assess student performa	principles behind the sto cater to the div of weaknesses of ir	ne rules and strategies (B l erse needs and abilities of ndividual during practical s	L2-Und	lerstan hts.(BL	id) 3-Appl	y)
Coures Elements	Skill Development × Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	× SDG (Goals) SDG3(Good health and well-being) SDG4(Quality education) SDG15(Life on land)					

Part B

Modules Contents	Pedagogy	Hours
------------------	----------	-------

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT 1	Teaching practices: 10 teaching practice lessons out of which 5 lessons in class-room situation and 5 lessons for out-door activities within premises on the students of B.P.Ed course. TP 301 Teaching practices: 10 teaching lesson plans for Racket Sport/ Team Games/ Indigeneous Sports out of which 5 lessons internal and 5 lessons external at school.	Games	BL3-Apply	60

	Theory										
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation						
			Practical		I						
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation						
100	32	70	23	30	9						

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	3	2	3	-	-	-	-	-	-	-	-	-	-	-
CO2	1	2	2	2	3	-	-	-	-	-	-	-	-	-	-
CO3	3	2	3	3	-	-	-	-	-	-	-	-	-	-	-
CO4	-	3	-	2	-	-	-	-	-	-	-	-	-	-	-
CO5	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Sports specialization
Course Code	TP-203

		Part A					
Year	2nd		Credits	L	т	Р	С
rear	2110		Creans	0	0	2	2
Course Type	Lab only				1		1
Course Category	Discipline Core						
Pre-Requisite/s			Co-Requisite/s				
Course Outcomes & Bloom's Level	CO1- Recall the fundamental to Remember) CO2- Explain the biomechanic chosen sport specialization.(BI CO3- Apply coaching strategie CO4- Analyze athletes' perform (BL4-Analyze) CO5- Evaluate athletes' progre	al principles and ph L 2-Understand) s and teaching met nance and techniqu	hysiological aspects underly hodologies (BL3-Apply) e through video analysis, c	ving pe	rforma	nce in t	he
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×SDG (Goals)SDG3(Good health and well-being) SDG15(Life on land)						

Part B

Modules	Contents	Pedagogy	Hours
---------	----------	----------	-------

	Par	tC		
Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT 1	Sports Specialization: Track and field / Gymnastics / Swimming (4 internal lesson at prcticing school and 1 final external lesson on the students of practicing school as a sports specialization of any discipline mentioned above.)	Games	BL3-Apply	60

Dart C

	Theory												
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation								
	Practical												
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation								
100	32	70	23	30	9								

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

			1	İ	İ				İ	1					1
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	3	-	3	-	-	-	-	-	-	-	-	-	-
CO2	-	1	3	2	-	-	-	-	-	-	-	-	-	-	-
CO3	3	3	3	3	-	-	-	-	-	-	-	-	-	-	-
CO4	1	2	3	3	2	-	-	-	-	-	-	-	-	-	-
CO5	-	3	2	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



(SOSE)(BPed)

Title of the Course	Games specialization
Course Code	TP-204

	_	Part A											
Year	2nd	Credits	L	Т	Р	С							
Teal	210		Credits	0	0	2	2						
Course Type	Lab only		•										
Course Category	Discipline Core	Discipline Core											
Pre-Requisite/s			Co-Requisite/s										
Course Outcomes & Bloom's Level	CO1- Recall the rules and reg CO2- Explain the strategies an CO3- Apply coaching principle CO4- Analyze players' perform CO5- Evaluate players' progre	nd tactics employed es and teaching stra nance and decision	I.(BL2-Understand) ategies ategies and tactics -making abilities (BL4-An	emplo	•								
Coures Elements	Skill Development ✓ Entrepreneurship × Employability ✓ Professional Ethics × Gender × Human Values × Environment ×	SDG (Goals)	SDG3(Good health and well-being) SDG15(Life on land)										

Part B

Modules Contents	Pedagogy	Hours
------------------	----------	-------

Part C

Modules	Title	Indicative-ABCA/PBL/ Experiments/Field work/ Internships	Bloom's Level	Hours
UNIT 1	Games Specialization: Kabaddi, Kho-kho, Base ball, cricket, Football, Hockey, Softball Volleyball, Handball, Basketball, Netball, Badminton, Table Tennis, Squash, Tennis (4 internal lesson at prcticing school and 1 final external lesson on the students of practicing school as a games specialization of any discipline mentioned above.)	Games	BL3-Apply	60

	Theory												
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation								
	Practical												
Total Marks	Minimum Passing Marks	External Evaluation	Min. External Evaluation	Internal Evaluation	Min. Internal Evaluation								
100	32	70	23	30	9								

Part E

Books	
Articles	
References Books	
MOOC Courses	
Videos	

-															
COs	PO1	PO2	PO3	PO4	PO5	P06	P07	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	3	-	-	-	-	-	-	-	-	-	-	-
CO2	1	2	3	1	-	-	-	-	-	-	-	-	-	-	-
CO3	2	3	-	3	2	-	-	-	-	-	-	-	-	-	-
CO4	-	2	3	2	3	-	-	-	-	-	-	-	-	-	-
CO5	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-