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**[OBE DESIGN- PHYSICAL
EDUCATION DEPARTMENT]**

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PREFACE

Outcome Based Education (OBE) is the educational approach which focuses on student centric education in the context of development of personal, social, professional and knowledge (KSA) requirements in one's career and life. It is the decade ago curriculum development methodology. The educational triangle of LEARNING-ASSESSMENT-TEACHING is the unique nature of the OBE approach. The curriculum practices such as Competency Based Curriculum, Taylor's Model of Curriculum Development, Spadys' Curriculum principles, Blooms taxonomy and further use of assessment methodologies like, Norm-reference testing and Criterion reference testing, etc is being practiced since decades. It is also interesting to know that, globally, different countries and universities adopts the curriculum development models/approaches such as, CDIO (Conceive-Design-Implement-Operate), Evidenced Based Education, Systems' Approach, etc as the scientific and systematic approaches in curriculum design.

The authorities of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (M.S.) in-lieu of accreditation standards of National Assessment and Accreditation Council, decided to opt for Outcomes Based Education (OBE). As the part of the decision, different meetings, workshops and presentations were held at the campus of university.

This document is the outcome of different meetings and workshops held at university level and department level. The detailed document is designed and the existing curriculum of the department is transformed in to the framework of OBE. This is the first step towards the implementation of OBE in the department. The document will serve all stakeholders in the effective implementation of the curriculum. The OBE is continuous process for quality enhancement and it will go a long way in order to enhance the competencies and employability of the graduates/Post-graduates of the university department.

Head of Department

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OUTCOME BASED EDUCATION

Faculty of Interdisciplinary Studies

Department of Physical Education

1. Mission:

Mission Statement

- To offer post-graduate and research program in Physical Education.
- To develop trained players in sports field to uplift sports standards.
- To conduct research to enhance the performance of learner.
- To develop the trainers as sportsman, professional and coach.
- To develop the ethics and values amongst the learners through practice based learning.

2. Vision:

Vision Statement

- To develop the center for *Physically Educate* the society by ensuring quality of fitness, health psychologically, physiologically, physically & mentally fit to the society or surrounding to develop social health or healthy environment through the academic and research programmes offered by the department.
- To emerge advance level sports center for the society and social cluster of India.

3. Title of the Program (s):

- a. Master of Physical Education

4. Program Educational Objectives:

The program educational objectives (PEO) are the statement that describes the career and professional achievement after the program of studies (graduation/post-graduation). The PEOs are driven from question no. (ii) of the Mission statement (What is the purpose of organization). The PEOs can be minimum three and maximum five.

PE01: Mastery over the domains of physical education such as psychology, physiology, health management, scientific techniques in sports, administration, etc.

PE02: To provide educational leadership to public and private educational institutes in a teaching /coach/administrative profession.

PE03: To work as coach, umpire, manager in the identified sport and related activities.

PE04: To opt for higher education, research and be a life-long learner.

PE05: to demonstrate value based and ethical leadership in the field of education profession and social life.

5. Program Outcomes:

The program outcomes (PO) are the statement of competencies/ abilities. POs are the statement that describes the knowledge and the abilities the graduate/ post-graduate will have by the end of program studies.

- a. Apply concept, principle and theories of curriculum development, learning, assessment & evaluation, education technology and management in the educational setup/organization.
- b. Develop curriculum, learning materials, evaluation system and tools for the Physical educational programmes.
- c. Apply the concept, principles and theories of advanced psychology and physiology, sport techniques, game rules and related theories in diagnosing and finding solutions to complex problems.
- d. Administer and manage sport teams, institute and lead educational institutions.
- e. Demonstrate higher level of communication sport skills, communication skills, team work, values and ethics in managing educational institutes/organization.
- f. Conduct research and create/design innovative models/solutions.
- g. Use technical tools and technology like ICT, apps in teaching sports and in the delivery and management of institute.

6. Course- Program outcome Matrix:

The Program Outcomes are developed through the curriculum (curricular/co-curricular-extra-curricular activities). The program outcomes are attained through the course implementation. As an educator, one must know, **“to which**

POs his/her course in contributing?". So that one can design the learning experiences, select teaching method and design the tool for assessment. Hence, establishing the Course-PO matrix is essential step in the OBE. The course-program outcomes matrix indicates the co-relation between the courses and program outcomes. The CO-PO matrix is the map of list of courses contributing to the development of respective POs.

The **CO-PO MATRIX** is provided in the below table.

Course Title	a	b	c	d	e	f	g	
CC101	*	*			*			
102	*	*			*			
103	*	*			*		*	
EC101			*	*	*		*	
PC101			*	*	*			
102			*	*	*			
103			*	*	*			
104			*	*	*			
CC201						*		
202			*	*	*			
203			*	*				
EC202	*	*						
PC201			*	*	*			
202			*	*	*			
203			*	*	*			
204			*	*	*			
CC301			*	*	*			
302			*	*	*			
303			*	*	*			
EC302			*	*	*			
PC301			*	*	*	*		
302			*	*	*			
303	*	*	*					
304	*	*	*					
CC401	*	*	*			*		
402			*	*	*			
403			*	*	*			
EC401			*	*	*			
PC401			*	*	*			
402			*	*	*			
403			*	*	*			

7. Course Outcomes (for all courses):

The course outcomes are the statement that describes the knowledge & abilities developed in the student by the end of course (subject) teaching. The

focus is on development of abilities rather than mere content. There can be 5 to 7 course outcomes of any course. These are to be written in the specific terms and not in general. The list of Course Outcomes is the part of **Annexure-C** attached herewith.

8. Set Target levels for Attainment of Course Outcomes:

The course outcome attainment is assessed in order to track the graduates' performance w.r.t target level of performance. The CO-PO attainment is the tool used for continuous improvement in the graduates' abilities through appropriate learning & teaching strategies. In order to assess students' performance with respect to abilities (at the end of course teaching/by the end of program) the course outcome attainment are measured/calculated. In order to calculate the program outcome attainment, the course outcome attainment is calculated. Prior to that, the course-program outcome mapping is done.

9. Set Target level for Attainment of Program Outcomes:

The program outcome attainment is assessed in order to track the graduates' performance w.r.t target level of performance. The CO-PO attainment is the tool used for continuous improvement in the graduates' abilities through appropriate learning & teaching strategies. In order to assess students' performance with respect to abilities (at the end of course teaching/by the end of program) the course outcome attainment and program outcome attainment is measured/calculated. The program outcome attainment is governed by curricular, co-curricular and extra-curricular activities including the stakeholders' participation. The direct method and indirect method is adopted to calculate the PO attainment. The direct method implies the attainment by course outcomes contributing to respective program outcomes. And indirect method is the satisfaction/feed-back survey of stakeholders. In order to calculate the program outcome attainment, the course outcome attainment is calculated. Prior to that, the course-program outcome mapping is done.

The set target level is the set benchmark to ensure the continuous improvements in the learners/ graduates' performance.

10. Course Attainment Levels:

- a. CO attainment is defined/set at three levels;
- b. The CO attainment is based on end term examination assessment and internal assessment;
- c. The Co attainment is defined at three levels in ascending order-
 - i. e.g. For end term and internal examination;
 - ii. Level-1: 40% students scored more than class average
 - iii. Level-2: 50% students score more than class average;
 - iv. Level-3: 60% students score more than class average.

- d. The target level is set (e.g. Level-2). It indicates that, the current target is level-2; 50% students score more than class average. The CO attainment is measured and the results are obtained. Based on the results of attainment, the corrective measures/remedial action are taken.
- e. CO Attainment= 80% (Attainment level in end term examination) + 20% (Attainment level in internal examination).

11. Program attainment Level:

- a. PO attainment is defined at five levels in ascending order;
- b. The PO attainment is based on the average attainment level of corresponding courses (Direct Method) and feed-back survey (Indirect method);
- c. The PO attainment levels are defined / set as stated below;
 - i. Level-1: Greater than 0.5 and less than 1.0 (0.5>1)- Poor
 - ii. Level-2: 1.0>1.5-Average
 - iii. Level-3: 1.5>2.0-Good
 - iv. Level-4: 2.0>2.5-Very Good
 - v. Level-5: 2.5>3.0 -Excellent
- d. The PO attainment target level is set/defined (say, Level-4). It implies that, the department is aiming at minimum level-4 (very good) in the performance of abilities by the graduates. Based upon the results of attainment, the remedial measures are taken;
- e. PO Attainment= 80% (Average attainment level by direct method) + 20% (Average attainment level by indirect method).

12. The Results of CO Attainment:

The Results of CO attainment are provided in Annexure-B

FOR EXAMPLE:

COURSE CODE/TITLE: EC-401

e.g. For end term and internal examination;

- i. Level-1: 40% students scored more than class average
- ii. Level-2: 50% students score more than class average;
- iii. Level-3: 60% students score more than class average

Average Marks in External examination: 45.83= i.e. 46.00

% Students score more than 46 is 21/30 i.e 70% i.e. Level-3

Average Marks in Internal examination= 13.57 i.e. 14.00

% Students score more than 14 is 15/30 i.e. 60.00%, i.e. Level-2

A (CO) EC-401= 80% (3) +20(2)

$$=2.4+0.4$$

$$=2.8$$

Hence, The attainment level is Level-1 and the set target level is Level-2 and therefore the CO is Fully attained.

Table No. 1.0: CO Attainment Level

Course Title	COP Attainment Value	Target Attainment Level	Fully Attained/ Not Attained	Remedial Measures
CC101	2.8	2	Fully Attained	
102	1.8	2	Not Attained	Assignments, practice, exercises will be conducted.
103	2.2	2	Fully Attained	
EC101	1.4	2	Not Attained	Assignments, practice, exercises will be conducted.
PC101	3	2	Fully Attained	
102	1.4	2	Not Attained	Assignments, practice, exercises will be conducted.
103	3	2	Fully Attained	
104	1.8	2	Not Attained	Assignments, practice, exercises will be conducted.
CC201	3	2	Fully Attained	
202	2.2	2	Fully Attained	
203	2.2	2	Fully Attained	
EC202	2.2	2	Fully Attained	
PC201	3	2	Fully Attained	
202	3	2	Fully Attained	
203	3	2	Fully Attained	
204	3	2	Fully	

			Attained	
CC301	1.6	2	Not Attained	Assignments, practice, exercises will be conducted.
302	1.4	2	Not Attained	
303	0.8	2	Not Attained	
EC302	2.6	2	Fully Attained	
PC301	3	2	Fully Attained	
302	3	2	Fully Attained	
303	3	2	Fully Attained	
304	3	2	Fully Attained	
CC401	2	2	Fully Attained	
402	2.6	2	Fully Attained	
403	1.4	2	Fully Attained	
EC401	2.8	2	Fully Attained	
PC401	1	2	Fully Attained	
402	2.2	2	Fully Attained	
403	2.6	2	Fully Attained	

13.The Results of PO Attainment:

The Results of PO attainment are provided in Annexure-B

FOR EXAMPLE:

PO NO.: b

(Note: Refer point No. 11 above which describes the attainment level and set target attainment level)

PO Attainment= 80% (Average attainment level by direct method) + 20% (Average attainment level by indirect method).

$$A \text{ (PO) } b = 80\% (2.8+1.8+2.2+2.2+3+3+2)/7 +20\% (2.43)$$

$$=80\% (2.43) + 20\% (2.43)$$

= 2.43 i.e. Level-4. The Target Level is Level-4.

Hence, PO is attained.

Table No. 2.0 PO Attainment Level

PO/PSO number	PO Attainment Value	Target Attainment level	Fully attained/ Not Attained	Remedial Measures
a	2.43	4	Fully Attained	
b	2.43	4	Fully Attained	
c	2.35	4	Fully Attained	
d	2.30	4	Fully Attained	
e	2.30	4	Fully Attained	
f	2.67	4	Fully Attained	
g	1.8	4	Not Attained	Assignments, practice, exercise for respective courses will be arranged.

14. Planned Actions for Course Attainment:

The courses having attainment level less than level-s shall be addressed by planning remedial measures.

15.Planned Actions for Program Outcome Attainment:

The PO having attainment level less than Level-4, shall be addressed by planning remedial measures for corresponding courses.

ANNEXURE-B

RESULTS OF CO-PO ATTAINMENT

Course Title	a	b	c	d	e	f	g
CC101	2.8	2.8			2.8		
102	1.8	1.8			1.8		
103	2.2	2.2			2.2		2.2
EC101			1.4	1.4	1.4		1.4
PC101			3	3	3		
102			1.4	1.4	1.4		
103			3	3	3		
104			2.8	2.8	2.8		
CC201						3	
202			2.2	2.2	2.2		
203			2.2	2.2	2.2		
EC202	2.2	2.2					
PC201			3	3	3		
202			3	3	3		
203			3	3	3		
204			3	3	3		
CC301			1.6	1.6	1.6		
302			1.4	1.4	1.4		
303			0.8	0.8	0.8		
EC302			2.6	2.6	2.6		
PC301			3	3	3	3	
302			3	3	3		
303	3	3	3				
304	3	3	3				
CC401	2	2	2			2	
402			2.6	2.6	2.6		
403			1.4	1.4	1.4		
EC401			2.8	2.8	2.8		
PC401			1	1	1		
402			2.2	2.2	2.2		
403			2.6	2.6	2.6		
	2.428571	2.428571	2.346154	2.304348	2.3	2.666667	1.8

ANNEXURE-C
COURSE OUTCOMES
Course Outcome

Master in Physical Education: Program Course

M.P.Ed II Sem

<u>MPCC 201 - Applied Statistics in Physical Education and Sports</u>	
Co.1	At the end of course students should be able to Compare and apply measures of central tendency to statistical data in various situations of life.
Co.2	At the end of the course students should be able to execute and relate <u>measures of dispersion in research methodology.</u>
Co.3	At the end of the course student should be .able judge and support inferential statistical tolls in sports sciences for data analysis in computer software.
Co.4	At the end of the course student should be able to develop and design <u>graphical statistics in physical education and sports.</u>
Co.5	At the end of the course student should be able to use and assemble statistical information and statistical parameters for wellness of life in <u>sports sciences</u>

<u>MPCC 202 - Sports Biomechanics & Kinesiology</u>	
Co.1	Describe the principle dynamics and kinetics in context to human kinesiology.
Co.2	Discuss The Role of various muscles in human body during different human actions.
Co.3	Apply the Law of motion and force for evaluating human action
Co.4	Implement fundamental principles of projectiles and levers to obtain higher performance levels.
Co.5	Analyze human movement for attaining better performance.

M.P.Ed II Sem

MPPC 201 - Track & Field/Gymnastics	
Col	Explain Track & Field & Gymnastics event & Skill.
Co2.	Demonstrate and improve advance skills in Track & Field.
Co3.	Demonstrate and adopt advance skills in Gymnastics.
MPPC 202 - Games Specialization	
Col	Explanation of various games introduction Rules and Regulations.
Co2.	Demonstrate and Develop various games and sports skills.
Co3.	Master in various games to perform naturally in advance sports skills.
MPPC 203 - Teaching Lesson	
Co.1	To Interpret schedule, Sketch and Demonstrate of Teaching Lesson.
Co2.	Experiment, Judge & organize Indigenous activity & Sport in school & colleges.
Co3.	To Develop proficiency in Taking teaching classes in Indigenous activities and sports.
MPPC 204 - Classroom Teaching	
Col	To Interpret schedule, Sketch and Explain of Classroom Teaching.
Co2.	Distinguish, Discuss, use of Equipment in different sports & games in School' & Colleges..
Co3.	To assemble Proficiency in taking classroom Teaching on Theory of different sports & games.

M.P.Ed IV Sem

MPCC 401 - Information & Communication Technology (ICT) in Physical Education	
Col	Use communicative skills of English in new" situation.
Co2.	Able to implement and create ICT Tools for effective Teaching Learning process in physical Education.
Co3.	Able to Apply basic knowledge of computer for preparation of presentation in sports sciences.
Co4.	Able to handle and use digital class e-learning to solve issues.

MPCC 402 - Sports Psychology	
Col	.To define & explain concepts & sports psychology
Co2.	Able to identify discuss and solve psychological problems sports related to science
Co3.	Able to use and apply psychological tools
Co4.	Able to analyze and interpret problems of sports women in our society
MPCC 403 -Dissertation	
Col'	To select, classify and describe innovative New research in physical Education & sports field.
Co'2:	Sketch, implement and solve new problem in field of physical education & sports.
Co3.	. To .execute, distinguish and experiment in sports sciences.
Co4.	To Design construct and develop new ides in physical education & sports science. .
Co5.	To Analyze and interpret new issues & problems in physical education & sports science.

MLP.Ed IV Sem

MPPC 401 - Track & Field/Gymnastics	
.Col	Explain & shows Track & Field & Gymnastics event & Skill
Co2.	Perfor & modifies advance skills in Track & Field.
Co3.	Perfor modifies and develop advance skills in Gymnastics.
MPPC 402 - Game Specialization	
i-	Explanation of Various games & sports skill Test.
2.	Perform, Demonstrate and adopt different games & sports skill Test.
3.'	Assemble, develop and judge different games & sports skill.

MPPC 403 - Officiating lesson of Track & field & Gymnastics Swimming	
Co1	Describe & demonstrate Track & field/Gymnastics officiating Rules & Regulations
Co2	To provided with advance mechanism of officiating in Track & field & <u>Gymnastics</u>
Co3	Design, Formulate and develop of officiating lesson in Track & Field & <u>Gymnastics</u> .

MPPC 404 - Officiating lesson of Game Specialization	
Col."	Describe & Demonstrate various games & Sports Rules & Regulations.
Co2;.	To execute, Implement of various games officiating mechanism.
Co3.	Experiment & Judge of Various games and sports officiating.

