

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

"NAAC Re - accredited 'A' Grade"

Department of Physics

"UGC - SAP & DST - FIST Funded"

Re - arranged structure of M. Sc. Physics Course

Course Structure

Semester I (Core and Foundation Courses)				
Course	Course Title	Teaching time/week	Marks	Credits
PHYC-111	Mathematical Methods in Physics	4 hours	100	4
PHYC-112	Classical Mechanics	4 hours	100	4
PHYC-113	Quantum Mechanics	4 hours	100	4
PHYC-114	Statistical Mechanics	4 hours	100	4
PHYF-115	Research Methodology	1 hours	25	1
COM-100	Constitution of India	2 hours	50	2
PHYL-121	Lab course 1 (General Physics)	4 hours	50	2
PHYL-122	Lab course 2 (Computational Physics based on PHYC -111, 112, 113 and 114)	4 hours	50	2
Total Credits for Semester I : 23 (Theory : 19 ; Laboratory : 04)				
Semester II (Foundation Courses)				
PHYF-211	Foundation Course in Electronics (Linear and Digital Electronics)	4 hours	100	4
PHYF-212	Foundation Course in Spectroscopy (Atomic and Molecular Physics)	4 hours	100	4
PHYF-213	Foundation Course in Nuclear Physics (General Nuclear Physics)	4 hours	100	4
PHYF-214	Foundation Course in Condensed Matter Physics (General Condensed Matter Physics)	4 hours	100	4
PHYL-221	Lab course 3 (Condensed Matter Physics + Nuclear Physics + Spectroscopy)	4 hours	50	2
PHYL-222	Lab course 4 (Electronics + Computational Physics)	4 hours	50	2
PHYR-231	Review of literature for Research Project	4 hours	50	2
PHYR-232	Formulation of Topic of Research Project	4 hours	50	2
Total Credits for Semester II : 24 (Theory : 16 ; Laboratory : 04 ; Research Project : 04)				

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Semester III (Foundation and Generic Elective Courses)

PHYF-311	Methods of Theoretical Physics	4 hours	100	4
PHYE-312	Generic Electives 1 (A1/ B1/ C1/ D1)	4 hours	100	4
PHYE-313	Generic Electives 2 (A2/ B2/ C2/ D2)	4 hours	100	4
PHYE-314	Generic Electives 3 (A3/ B3/ C3/ D3/ E3 / F3/G3/H3)	4 hours	100	4
PHYL-321	Lab course (Based on Electives A1/ B1/ C1/ D1) (Based on Electives A2/ B2/ C2/ D2)	6 hours	50	3
PHYR-331	Research Project Part I (Experimental Work) + (Organization of Results)	12 hours	100	10
Total Credits for Semester III : 29 (Theory : 16 ; Laboratory : 03 ; Research Project : 10)				

Semester IV (Generic and Open Elective Courses)

PHYE-411	Generic Electives 4 (A4/ B4/ C4/ D4)	4 hours	100	4
PHYE-412	Generic Electives 5 (A5/ B5/ C5/ D5)	4 hours	100	4
PHYE-413	Generic Electives 6 (A6/ B6/ C6/ D6) (Research Oriented)	4 hours	100	4
OELE-101	Service Course of Department of Physics (from other Departments)	4 hours	100	4
PHYL-421	Lab course 7 (Based on Electives A4,A5/ B4,B5/ C4,C5/ D4,D5)	6 hours	50	3
PHYR-431	Research Project Part II (Interpretation of Results) + (Dissertation and Presentation)	6 hours	100	10
Total Credits for Semester IV : 29 (Theory : 16 ; Laboratory : 03 ; Research Project : 10)				

Total Credits : 105 (Sem I : 23 + Sem II : 24 : Sem III : 29 + Sem IV : 29)

R.P. Sharma
Dr. Ramphal B. Sharma
Professor and Head 01/11/2017

Dr. Ramphal B. Sharma
M.Sc., Ph.D., PDF (Italy)
Professor and Head
Department of Physics
Dr. Babasaheb Ambedkar Marathwada University
Aurangabad-431004, India (M.S.)

Hon'ble Vice - Chancellor

CRITERION: I

Metric No.	Title Of The Metric	List Of Mandatory Documents Recieved
1.1.2	Percentage of programme where syllabus revision was carried out during the last five	-Copy of minutes of BoS meeting /Academic council/DC Meeting -Copy of letter showing Academic flexibility to the departments -Copy of syllabus old syllabus -Copy of received Syllabus (Please highlight the changes with different color)
1.1.3	Average percentage of courses having focus of employability/entrepreneurship/skill development during the last five years	-Copy of minute of BoS/Academic Council/DC Meeting -Copy of Syllabus (Please Highlight the Content of syllabus having focus on employability/entrepreneurship/skill development with different color) -MoU's with relevant organizations mentioning employment/entrepreneurship/skill development focused activities (if Any)
1.2.1	Percentage of New courses introduced of the total number of courses across all programmes offered during last five years	-Copy of minutes of BoS meeting/Academic Council/DC meeting -Copy of Syllabus Old Syllabus (with structure) -Copy of revised syllabus (Please Highlight the changes with different colors in structure as well as content -Proof of commencement of new courses/programmes
1.2.2	Percentage of programmes in which Choice Based Credit System(CBCS)/elective course system has been implanted (current year data)	-Copy of minutes of BoS Meeting/Academic Council Meeting
1.3.2	Number of value-added courses imparting transferable and life skills offered during the last five years	-Brouchers or related document for value added courses -Time table of the value-added courses(showing 30 contract hours) -Curriculum of value added courses, attendance,photographs,etc
1.3.3	Average Percentage of students enrolled im the courses under 1.3.2 above	
1.3.4	Percentage of students undertaking field projects\intership(current year data(2017-18)	-Certificate from respective industry/institution relevant to the field project /intership -List of studnts with Project Title Endorsed by Head MoU's with spescial mention about field project/intership(if any)
1.4.1	Structured feedback received from 1)Students,2)Teachers,3)Employees, 4)Alumini,5)Parents for design and review of syllabus-semester wise/years wise	-URL having year-wise feedback report,analysis and action taken report , PI prepare year- wise folder having feedback, report analysis and action taken report,upload the same on your department portal with the help of UNIC and send us the URL
1.4.2	Feedback process of the institurion may be classified as follows A)Feedback collected,analysed and action taken and feedback available on website B) Feedback collected,analysed and action has been taken	