



1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) of the Programmes offered by the Institution.

Criterion: 1

Curricular Aspects

1.1 Curriculum Design and Development

The University Teaching Department of Rani Durgavati University has devised learning outcomes which are integrated into the assessment process and widely publicized through the website and other documents. The webpage of each department displays Programs offered, Program outcomes (POs), Program Specific Outcomes (PSOs), the evaluation scheme, and the syllabus with CO-PO & PSO mapping and Attainments. The syllabus prominently displays the course outcomes.

Mapping & Attainment of POs with COs

Representation samples of some Department

- 1. Department of PG Studies & Research in Physics & Electronics (M.Sc. Physics)**
- 2. Department of PG Studies and Research in Political Science (M.A. Political Science)**
- 3. Department of PG Studies and Research in Philosophy (M.A. Philosophy)**

1. Master of Science in Physics (M.Sc. Physics)

PROGRAMME OUTCOMES

- PO-1.** Critical Thinking: Identifying the assumptions that frame our actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO-2.** Effective Communication: Read, Write, Speak and listen clearly in English and Hindi (Bilingual).
- PO-3.** Social Interaction: Provide a social exchange between two or more individuals.
- PO-4.** Effective Citizenship: Demonstrate social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO-5.** Ethics: Recognize different value and moral systems and correlate them with present system.
- PO-6.** Environment & Sustainability: To understand the responsibility to conserve natural resources and protect global ecosystems to support health & wellbeing.
- PO-7.** Self-Directed & Life-long learning: It focuses on the process by which students take control of their own learning, in particular how they set their own learning goals, locate appropriate resources, decide on which learning methods to use and evaluate their progress.

PROGRAMME SPECIFIC OUTCOMES

- PSO-1.** Students are expected to acquire deep knowledge in physics, including the major areas of classical mechanics, quantum mechanics, electromagnetism, Nuclear and particle physics, electronics, modern physics and microprocessors.
- PSO-2.** Have fundamental and advanced level knowledge in physics so as to handle the computational tools and Scientific software.
- PSO-3.** Discover of physics concepts in other disciplines such as mathematics, computer science, Non-linear dynamics, Chemistry etc.
- PSO-4.** Have necessary skills and expertise in field of research and development and be able to apply experimental expertise in basic as well as advanced areas of physics. Students will be capable of oral and written scientific communication and will prove that they can think critically and work independently.

Semester-1

Paper 1 Mathematical Methods Course Outcomes

- CO-1. Learn about the concept and uses of Tensors and Tensor algebra (Null tensor, addition, subtraction, inner product, outer product).
- CO-2. Familiarized with different special functions like Associated Legendre Polynomials, Laguerre's Polynomials, etc. and their solutions in solving different physical problems.
- CO-3. To obtain knowledge of Fourier and Laplace Transforms in solving different problems of Mechanics and Electronics etc.
- CO-4. Know about Green Function and its application in solving non homogeneous differential equations.
- CO-5. Solve different physical problems which contain complex variables and implementation of complex variable for calculation of integrals, and also able to expand functions in Taylor's and Laurent's series. Knowledge of theorems of residues and contour integration.

Paper 2 Classical Mechanics Course Outcomes

- CO-1. Newtonian mechanics, Virtual work, D'Alembert's principle, Formulation of Lagrangian mechanics and problem solving with the help of it. Compare the formulation of Hamiltonian and Lagrangian mechanics and solve the problems of classical and relativistic mechanics
- CO-2. Generating function, canonical transformation & Poisson brackets.
- CO-3. Kepler problem, Legendre Transformations, Hamilton's equation, Canonical transformations and generating functions. Properties of Poisson's bracket.
- CO-4. Understanding small oscillations, Solve the equations of coupled oscillator and to examine the two coupled pendulums, and double pendulum related problems. Understanding rotating coordinate system, coriolis force and Eulerian coordinate system
- CO-5. Understand space and time symmetries, covariant and four-dimensional formulation, covariant

Paper 3 Electronic Devices

Course Outcomes

- CO-1. Understand working of Different Semiconductor devices like JFET, BJT, MOSFET & MESFET (Construction, Working Principles and V-I characteristics) and their applications.
- CO-2. Understand photonic devices like LDR, LED and Diode Lasers along with their applications.
- CO-3. Develop a comprehensive understanding of contemporary integrated circuits both saturated and unsaturated logic families like RTL, DTL, TTL, ECL etc. Operational amplifier design and applications like adder, subtractor, differentiator function generator etc.
- CO-4. Develop an insight into the physics and technology that go into the development of various memory devices using semiconductors and other electronic devices using electro-acousto-magneto-optic effects. LCD. Piezoelectric effect-based devices.
- CO-5. Enjoy the new and stimulating ideas behind the future novel devices and also appreciate the link

Paper 4 Computational Methods And Programming

Course Outcomes

- CO-1. Understand the basics of computer and BASIC programming. Estimate errors while solving equations and effectively use methods like matrix inversion, Gauss elimination and LU decomposition to solve linear equations.

CO-2. Understand the methods of linear and non-linear algebraic equations, simultaneous linear equations

CO-3. Enrich a given set of data points using interpolation methods, Newton's divided difference, etc.

CO-4. Numerically differentiate and integrate expressions and solve equations from physics.

CO-5. Enriched with various computational methods like Euler, Newton-Raphson and Runge-Kutta etc. to solve problems. Idea of random variables and Monte Carlo evaluation

Paper 5 Physics of electronics devices & fabrication of Integrated circuits and systems

Course Outcomes

CO-1. Understand the basic concepts of various Inorganic and Organic Semiconductor materials for electronic device applications in modern electronic industry.

CO-2. Understand the carrier transport in semiconductors. Drift, Diffusion, Conductivity measurement, Direct and Indirect Band gap semiconductors.

CO-3. Analyze various junction devices: p-n junction, Schottky and MOS devices.

CO-4. Understand fabrication techniques of integrated devices such as thin film, vapor deposition, etching, lithography, sputtering etc.

CO-5. Evaluate and understand behavior of semiconductor Electronics and their applications in design of various circuitry.

Semester-2

Paper 1 Quantum Mechanics- I

Course Outcomes

CO-1. To understand and apply principles of Quantum mechanics for understanding the physical systems in quantum realm.

CO-2. Importance of quantum mechanics compared to classical mechanics at microscopic level.

CO-3. To formulate the Heisenberg & Dirac formulation of quantum mechanics

CO-4. To solve the linear harmonic oscillator and hydrogen-like atom problems using Dirac formulation

CO-5. To demonstrate angular momentum operators associated with spherical and symmetrical systems and various tools to calculate Eigen values and total angular momentum of particles.

Paper 2 Statistical Mechanics

Course Outcomes

CO-1. To use various ensemble theories to calculate the thermodynamic properties of different systems.

CO-2. To compute properties of systems behaving as ideal Fermi gas or ideal Bose gas.

CO-3. To describe the features and examples of Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics.

CO-4. The student should be able to know Cluster expansion, Virial equation, Ising model and Landau theory.

CO-5. Understand the thermodynamic fluctuations, Langevin theory, Fokker-Planck and Onsager relations.

Paper 3 Electrodynamics and Plasma Physics

Course Outcomes

CO-1. Understand and apply the laws of electromagnetism and Maxwell's equations. Basics of electrostatics and magneto statics Solve the electric and magnetic fields problems for different configurations.

CO-2. Radiations by moving charges and retarded potentials. Fields of accelerated charged particle with different velocity. Angular distribution of radiated power. Abraham-Lorentz method.

CO-3. Understand 4-Vectors and Lorentz transformation in 4-dimensional space, relativistic transformation properties of E and H.

CO-4. Understand the plasma oscillations and its limit, Debye screening.

CO-5. Know Magneto hydrodynamic equations, magnetic diffusion, MHD flow, Pinch effect MHD waves.

Paper 4 Condensed Matter Physics

Course Outcomes

CO-1. Able to understand the X-ray diffraction and its use in crystal structure, Concept of reciprocal lattice, defects in solids and their observation. CO-2. Able to understand the electronic properties of solids and understand the difference in the classical free electron theory, quantum free electron theory and the nearly free electron model.

CO-3. Able to understand types of polarizabilities, Hall effect and quantum hall effect. Superconductivity and high T_c superconductors.

CO-4. Able to understand ferromagnetism and its theory, Curie-Weiss law, magnetic order.

CO-5. Able to understand optical properties, Kramer-Kronig relations, cyclotron resonance, Raman effect

Paper 5 Informatics

Course Outcomes

CO-1. Use Fourier series and transformations as an aid for analyzing experimental data.

CO-2. Understand the principles of fiber optics communication in different media

CO-3. Intended to enrich the learner about transmission types, codes and communication. Modems and Transmission media.

CO-4. Introduction to UNIX/ LINUX, Programme with the C/ C++, Data types, Functions and Program structures.

CO-5. Able to know Object oriented concepts, the languages used to deliver web enabling technologies.

Semester-3

Paper 1 Quantum Mechanics – II

Course Outcomes

CO-1. Understand Approximation methods for bound states.

CO-2. Understand the Time Independent Perturbation Theory and its application.

CO-3. Understand theory of scattering, Born approximation and partial waves, Scattering by rigid sphere and spherically symmetric potential, Pauli spin matrices.

CO-4. Understand the central concept and principles of relativistic Quantum Mechanics.

CO-5. Understand Klein- Gordon equation, Dirac's relativistic equation, Zitterbewegung Dirac relativistic equation.

Paper 2 Nuclear And Particle Physics Course Outcomes

CO-1. The method and analysis of Scattering process & understand structure and properties of nuclei, radioactive decay, and different types of nuclear reactions.

CO-2. Compare various nuclear models and properties of the nucleus & to study the nuclear structure properties.

CO-3. Various nuclear radiation detectors like Betatron and Synchrotron & describe various types of nuclear reactions and their properties.

CO-4. Nuclear decay processes and theory for beta and gamma decay.

CO-5. The nature, interaction etc. of the elementary particles and origin, nature of Cosmic rays. Bhabha-Heitler theory.

Paper 3 Condensed Matter Physics – I

Course Outcomes

CO-1. Mechanism of plastic deformation, Dislocations and their stress and strain fields, Multiplication, Dislocations in different types of lattices. CO-2. Concept of Dislocation interaction and partial dislocations, Demonstrate techniques of microscopy for their observation. About elementary concepts of surface crystallography.

CO-3. Idea about thin films, their surface topography & electrical properties of thin films.

CO-4. Optical properties of solids, direct and indirect transitions, phonon absorption, skin effect.

CO-5. Able to define the concepts of Phonons and to understand the lattice dynamics of mono and diatomic lattices, Debye-Waller factor, Umklapp process, interaction of electron and phonons with photon.

Paper 4 Electronics - I

Course Outcomes

CO-1. Know the basic phenomenon of communication, modulation and demodulation and their types. Knowledge of microwave transmission and parameters affecting along with Satellite communication and geostationary system.

CO-2. Gain knowledge about working, design and application of microwave devices and systems. Idea of Radar and Antenna system and related parameters.

CO-3. Enrich the learner about Microwave transmission lines and waveguides. Through it students would be able to understand the propagation of microwave through transmission lines and Waveguides.

CO-4. Get knowledge of 8085 microprocessor architecture and its functioning and ability to understand and design the microcontroller and microprocessor-based systems.

CO-5. Know the principle and working concepts of Interfacing devices like 8155/8255 and 8257 DMA and 8279 systems. Methods for digital and

analog conversions.

Paper 5 Materials Science – I

Course Outcomes

CO-1. Able to qualitatively describe the bonding scheme and its general physical properties, as well as possible applications.

CO-2. Given a binary phase diagram, what microstructures can be obtained by suitable thermal treatments? examples for near-equilibrium and far-from-equilibrium processing.

CO-3. Able to identify phases (and their abundance), phase rule, and invariant reactions, as well as identify simple microstructures that can occur (including possible effects on mechanical response).

CO-4. Demonstrate techniques of microscopy for investigation on the nanometer and atomic scales

CO-5. Ability to know the basic instruments in materials science and engineering to characterize the structural properties.

Paper 6 Computational Physics – I

Course Outcomes

CO-1. General concepts and structure of C++ programming for developing computational methods.

CO-2. Review of instruments and related electronics used in computer-controlled instrumentation. Idea of 8085 and 8086 based microcomputer system their programming and interface.

CO-3. Computation and the evolution of phase space as various parameters are changed.

CO-4. Solving problems related to propagation of elastic waves in solids, Phase trajectory of chaotic pendulum, Poincare section etc. Using computational techniques.

CO-5. To explore application of computational physics in frontier areas of Electronics such as electromagnetic oscillation in LC circuit, Fourier analysis in harmonic waves, circuits having LCR, acceleration of charged particle in cyclotron etc.

Semester-4

Paper 1 Atomic and Molecular Physics

Course Outcomes

- CO-1. Able to deal with problems related to Hydrogen-like atomic spectra and alkali metals.
- CO-2. Understand coupling schemes and hyperfine structures.
- CO-3. Able to know the features of molecular quantum mechanics such as Thomas Fermi model, Hartree and Hartree-Fock methods.
- CO-4. Able to understand the basics of microwave spectroscopy with rotation of diatomic molecules.
- CO-5. Able to understand the basics of IR spectroscopy with vibrating diatomic molecules and vibrating –rotator molecule.
- CO-6. Understand the behavior of atomic and molecular spectra with UV, Visible, Raman, Photoelectron, Photo-acoustic, NMR and Mossbauer spectroscopies.

Paper 2 Physics of Lasers Its Applications

Course Outcomes

- CO-1. Evaluate conditions for lasing phenomenon and properties of the laser.
- CO-2. To understand various types of Lasers and their applications.
- CO-3. To know about Laser fluorescence and Raman scattering and their applications.
- CO-4. To understand the Optical fibers and use of Lasers in light wave communication along with the engineering and medical applications.
- CO-5. To understand the basics of crystal optics and propagation of light, electro- optical effects, laser induced multiphoton processes, parametric generation, optical stability etc.

Paper 3 Nonlinear Dynamics

Course Outcomes

- CO-1. Understand basic knowledge of nonlinear dynamical systems, their equations, bifurcations, Poincare section.
- CO-2. Understand dissipative systems, noninvertible maps, attractors, intermittency, Lyapunov exponents, Henon map and Fractals and their geometry.
- CO-3. Learn skills by solving problems on solving nonlinear problems using numerical methods.
- CO-4. Understand Hamiltonian Systems, Integrability, Liouville's theorem, perturbation techniques, Concept of Chaos and stochasticity.
- CO-5. Understand advanced topics like Solitons, Sine Gordon and Korteweg de Vries, Bäcklund transformation, magnetic monopole and Vortex solitons.

Paper 4 Physics of Nanomaterials

Course Outcomes

- CO-1. Understand concept of quantum confinement, electron confinement in deep square well and two and three dimensions, idea of quantum well, dot and wires.
- CO-2. Understand quantum well and super lattices, techniques of fabrication of MQW and SL structures. Acquire knowledge of basic approaches like Bottom up and Top down to synthesize inorganic colloidal nanoparticles and their self-assembly in solution and surfaces, Physical properties of nanoparticles.
- CO-3. Understand and describe the use of unique optical properties of nanoscale metallic structures using Luminescence and Raman scattering.
- CO-4. Understand electrical properties, magnetic materials and stability of nano structures, Various applications and perspectives of nanotechnology

in the development of value-added new products and devices.

Paper 5 Condensed Matter Physics – II

Course Outcomes

- CO-1.** Able to differentiate between type-I and type-II superconductors and their theories and explain the behavior of superconductors, applications and high temperature superconductivity.
- CO-2.** Understand the point defects, shallow impurity states and color centers.
- CO-3.** Understand structure and symmetries of liquid crystals, quasi crystals, Penrose lattice.
- CO-4.** Understand the physical and chemical properties of carbon nanotubes, methods of synthesis of nanostructures, quantum size effect.
- CO-5.** Understand the crystalline, non-crystalline materials, disorder in condensed matter, atomic correlation, glasses and liquids, Anderson model, and amorphous semiconductors

Paper 6 Electronics – II

Course Outcomes

- CO-1.** Understand digital communication systems such as PM, PAM, PCM, Delta modulations.
- CO-2.** Understand digital modulation techniques like BPSK, DPSK, QPSK, PSK FSK etc.
- CO-3.** Understand noise in pulse code and delta modulation systems, various noise parameters, signal to noise ratio.
- CO-4.** Understand computer communication systems, types of networks, design of networks, mobile and satellite network.
- CO-5.** Understand 8086 architecture and functioning, its assembly language programming, 8086 connection timings, Interrupts, digital and analog interfacing, elementary idea of Pentium processors

Paper 7 Materials Science – II

Course Outcomes

- CO-1.** To understand various mechanical properties and mechanism responsible for it. Failure of materials.
- CO-2.** To understand the dielectric behavior and polarization mechanism of materials.
- CO-3.** To understand the Polymer electrets and their applications, mechanism like Poole Frenkel, Richardson Schottky, tunneling and hopping inside the materials.
- CO-4.** To understand piezo, pyro, and ferro electric materials and their applications, to know about thin films, their deposition techniques, and electrical conduction, their magnetic and optical properties.
- CO-5.** To understand ceramics, glasses, and modern materials, their preparation and applications, modern materials like, liquid and quasi crystals, fullerenes, GMR materials, composite materials, bio polymers and conducting polymers.

Paper 8 Computational Physics – II

Course Outcomes

- CO-1.** Get a wide knowledge of Mathematica programming, its commands, numerical calculations like Factorial, exponential etc. Factorial, exponential & polynomials, Plots of data functions.
- CO-2.** To solve quantum mechanical problems in computational methods, like Schrodinger equations
- CO-3.** Solve propagation of free waves and through one dimensional well.
- CO-4.** Use computational methods to simulate phonon dispersion, density of states, two dimensional free electrons.
- CO-5.** Use simulation techniques to solve molecular dynamics with random oscillations, Monte Carlo and Ising model, magnetic susceptibility.

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CO-PO Mapping M.Sc. Physics (Session: 2020-22)

Sem	Course Code	Course Name	Sem		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
I	PYC101	Mathematical Methods	I	CO1	3	2	1	2	1	0	3	3	2	3	3
I	PYC101	Mathematical Methods	I	CO2	3	1	1	2	1	0	3	3	1	3	3
I	PYC101	Mathematical Methods	I	CO3	3	2	1	2	1	0	3	3	1	3	3
I	PYC101	Mathematical Methods	I	CO4	3	3	1	2	2	0	3	3	2	3	3
I	PYC101	Mathematical Methods	I	CO5	3	2	2	2	2	0	3	3	1	3	3
I	PYC101	Mathematical Methods	I	PYC101	3.0	2.0	1.2	2.0	1.4	0.0	3.0	3.0	1.4	3.0	3.0
I	PYC102	Classical Mechanics	I	CO1	3	2	1	2	2	0	3	3	2	3	3
I	PYC102	Classical Mechanics	I	CO2	3	2	1	2	2	0	3	3	2	3	3
I	PYC102	Classical Mechanics	I	CO3	3	2	2	2	1	0	3	3	2	3	3
I	PYC102	Classical Mechanics	I	CO4	3	2	2	2	2	0	3	3	2	3	3
I	PYC102	Classical Mechanics	I	CO5	3	2	1	2	2	0	3	3	2	3	3
I	PYC102	Classical Mechanics	I	PYC102	3.0	2.0	1.4	2.0	1.8	0.0	3.0	3.0	2.0	3.0	3.0
I	PYC103	Electronic Devices	I	CO1	3	2	2	2	1	0	2	2	1	3	2
I	PYC103	Electronic Devices	I	CO2	3	2	1	3	2	0	2	1	3	3	3
I	PYC103	Electronic Devices	I	CO3	3	3	1	2	3	0	2	2	1	3	2
I	PYC103	Electronic Devices	I	CO4	3	1	2	3	2	0	2	2	3	3	2
I	PYC103	Electronic Devices	I	CO5	3	2	1	2	3	0	2	3	2	3	2
I	PYC103	Electronic Devices	I	PYC103	3.0	2.0	1.4	2.4	2.2	0.0	2.0	2.0	2.0	3.0	2.2
I	PYE101	Computational Methods and Programming	I	CO1	3	2	1	2	3	0	2	3	3	2	2
I	PYE101	Computational Methods and Programming	I	CO2	3	2	1	2	3	0	2	3	3	2	2
I	PYE101	Computational Methods and Programming	I	CO3	3	2	1	2	3	0	1	3	3	2	1
I	PYE101	Computational Methods and Programming	I	CO4	3	2	1	2	3	0	2	3	3	2	2
I	PYE101	Computational Methods and Programming	I	CO5	3	2	1	2	3	0	2	3	3	2	1
I	PYE101	Computational Methods and Programming	I	PYE101	3.0	2.0	1.0	2.0	3.0	0.0	1.8	3.0	3.0	2.0	1.6
I	PYL 104	Lab A (Optics & Electronics)	I	CO1	3	1	2	2	2	0	2	3	2	2	1
I	PYL 104	Lab A (Optics & Electronics)	I	CO2	3	3	2	2	1	0	2	2	3	1	2
I	PYL 104	Lab A (Optics & Electronics)	I	CO3	3	2	3	1	2	0	2	2	3	2	1
I	PYL 104	Lab A (Optics & Electronics)	I	CO4	3	3	2	2	3	0	3	3	2	2	1
I	PYL 104	Lab A (Optics & Electronics)	I	CO5	3	2	3	2	3	0	3	2	3	2	1
I	PYL 104	Lab A (Optics & Electronics)	I	PYL 104	3.0	2.2	2.4	1.8	2.2	0.0	2.4	2.4	2.6	1.8	1.2
I	PYL 105	Lab B (Computer Programming)	I	CO1	3	2	2	2	1	0	2	2	2	2	2
I	PYL 105	Lab B (Computer Programming)	I	CO2	3	1	2	2	1	0	3	2	2	2	2
I	PYL 105	Lab B (Computer Programming)	I	CO3	3	2	2	2	1	0	2	2	2	1	1
I	PYL 105	Lab B (Computer Programming)	I	CO4	3	2	2	2	1	0	2	2	2	2	1
I	PYL 105	Lab B (Computer Programming)	I	CO5	3	1	2	2	1	0	2	2	2	2	1

I	PYL 105	Lab B (Computer Programming)	I	PYL 105	3.0	1.6	2.0	2.0	1.0	0.0	2.2	2.0	2.0	1.8	1.4
II	PYC201	Quantum Mechanics -I	II	CO1	3	2	3	2	2	0	2	3	2	3	2
II	PYC201	Quantum Mechanics -I	II	CO2	3	1	3	1	1	0	2	3	2	3	2
II	PYC201	Quantum Mechanics -I	II	CO3	3	1	2	2	2	0	2	3	2	3	2
II	PYC201	Quantum Mechanics -I	II	CO4	3	2	2	2	1	0	2	3	2	3	2
II	PYC201	Quantum Mechanics -I	II	CO5	3	2	2	1	2	0	2	3	2	3	2
II	PYC201	Quantum Mechanics -I	II	PYC201	3.0	1.6	2.4	1.6	1.6	0.0	2.0	3.0	2.0	3.0	2.0
II	PYC202	Statistical Mechanics	II	CO1	3	3	2	3	2	0	3	2	3	3	3
II	PYC202	Statistical Mechanics	II	CO2	3	2	3	2	2	0	3	2	2	3	2
II	PYC202	Statistical Mechanics	II	CO3	2	2	3	2	1	0	3	2	2	3	3
II	PYC202	Statistical Mechanics	II	CO4	3	3	2	2	1	0	3	1	2	3	3
II	PYC202	Statistical Mechanics	II	CO5	3	2	2	2	2	0	3	2	2	3	2
II	PYC202	Statistical Mechanics	II	PYC202	2.8	2.4	2.4	2.2	1.6	0.0	3.0	1.8	2.2	3.0	2.6
II	PYC203	Electrodynamics and Plasma Physics	II	CO1	3	1	3	2	1	0	2	2	2	2	2
II	PYC203	Electrodynamics and Plasma Physics	II	CO2	3	2	1	2	2	0	3	2	3	2	3
II	PYC203	Electrodynamics and Plasma Physics	II	CO3	3	3	4	2	2	0	3	2	2	2	2
II	PYC203	Electrodynamics and Plasma Physics	II	CO4	3	2	2	3	1	0	2	2	3	2	2
II	PYC203	Electrodynamics and Plasma Physics	II	CO5	3	3	1	2	1	0	2	3	2	2	2
II	PYC203	Electrodynamics and Plasma Physics	II	PYC203	3.0	2.2	2.2	2.2	1.4	0.0	2.4	2.2	2.4	2.0	2.2
II	PYE201	Condensed Matter Physics	II	CO1	3	2	2	2	2	1	3	3	2	2	2
II	PYE201	Condensed Matter Physics	II	CO2	3	2	3	2	2	1	3	3	2	2	2
II	PYE201	Condensed Matter Physics	II	CO3	3	2	3	2	2	1	3	3	2	3	2
II	PYE201	Condensed Matter Physics	II	CO4	3	2	2	2	2	1	2	3	2	3	2
II	PYE201	Condensed Matter Physics	II	CO5	3	2	2	2	2	1	2	3	2	3	2
II	PYE201	Condensed Matter Physics	II	PYE201	3.0	2.0	2.4	2.0	2.0	1.0	2.6	3.0	2.0	2.6	2.0
II	PYL 204	Lab A (Optics & Electronics)	II	CO1	3	2	2	2	1	1	3	3	2	2	2
II	PYL 204	Lab A (Optics & Electronics)	II	CO2	3	2	2	3	1	1	3	3	2	3	2
II	PYL 204	Lab A (Optics & Electronics)	II	CO3	3	2	2	3	1	1	3	3	2	2	2
II	PYL 204	Lab A (Optics & Electronics)	II	CO4	3	2	2	2	1	1	3	3	2	2	2
II	PYL 204	Lab A (Optics & Electronics)	II	CO5	3	2	2	3	1	1	3	3	2	3	2
II	PYL 204	Lab A (Optics & Electronics)	II	PYL 204	3.0	2.0	2.0	2.6	1.0	1.0	3.0	3.0	2.0	2.4	2.0
II	PYL 205	Lab B (Computer Programming)	II	CO1	3	2	2	3	1	3	2	3	2	2	3
II	PYL 205	Lab B (Computer Programming)	II	CO2	3	2	2	3	1	2	2	3	2	3	2
II	PYL 205	Lab B (Computer Programming)	II	CO3	3	2	2	2	1	2	2	3	2	3	3
II	PYL 205	Lab B (Computer Programming)	II	CO4	3	2	2	3	1	3	2	3	2	3	2
II	PYL 205	Lab B (Computer Programming)	II	CO5	3	2	2	2	1	2	2	3	2	2	3
II	PYL 205	Lab B (Computer Programming)	II	PYL 205	3.0	2.0	2.0	2.6	1.0	2.4	2.0	3.0	2.0	2.6	2.6
III	PYC301	Quantum Mechanics – II	III	CO1	3	2	2	2	2	0	2	3	2	2	2
III	PYC301	Quantum Mechanics – II	III	CO2	3	2	1	2	2	0	2	3	2	3	2
III	PYC301	Quantum Mechanics – II	III	CO3	3	2	2	2	2	0	1	3	2	3	2

III	PYC301	Quantum Mechanics – II	III	CO4	3	2	2	1	2	0	2	3	2	2	2
III	PYC301	Quantum Mechanics – II	III	CO5	3	2	1	2	2	0	2	3	2	2	2
III	PYC301	Quantum Mechanics – II	III	PYC301	3.0	2.0	1.6	1.8	2.0	0.0	1.8	3.0	2.0	2.4	2.0
III	PYC302	Nuclear and Particle Physics	III	CO1	3	2	3	2	0	0	3	3	3	3	2
III	PYC302	Nuclear and Particle Physics	III	CO2	3	2	3	2	0	0	3	3	3	2	2
III	PYC302	Nuclear and Particle Physics	III	CO3	3	2	3	2	0	0	2	3	3	2	2
III	PYC302	Nuclear and Particle Physics	III	CO4	3	2	3	2	0	0	3	3	3	2	2
III	PYC302	Nuclear and Particle Physics	III	CO5	3	2	3	2	0	0	3	3	3	3	2
III	PYC302	Nuclear and Particle Physics	III	PYC302	3.0	2.0	3.0	2.0	0.0	0.0	2.8	3.0	3.0	2.4	2.0
III	PYSE301	Condensed Matter Physics - I	III	CO1	3	2	3	2	2	1	3	2	3	2	2
III	PYSE301	Condensed Matter Physics - I	III	CO2	3	2	3	3	2	1	3	3	3	2	3
III	PYSE301	Condensed Matter Physics - I	III	CO3	3	3	3	2	3	1	2	2	2	2	2
III	PYSE301	Condensed Matter Physics - I	III	CO4	3	2	2	3	2	1	3	2	3	2	2
III	PYSE301	Condensed Matter Physics - I	III	CO5	3	3	3	2	3	1	2	3	2	2	2
III	PYSE301	Condensed Matter Physics - I	III	PYSE301	3.0	2.4	2.8	2.4	2.4	1.0	2.6	2.4	2.6	2.0	2.2
III	PYSE302	Electronics - I	III	CO1	3	2	3	2	1	0	3	2	3	2	2
III	PYSE302	Electronics - I	III	CO2	3	3	3	2	1	0	3	2	2	2	2
III	PYSE302	Electronics - I	III	CO3	3	2	2	2	1	0	3	3	2	2	2
III	PYSE302	Electronics - I	III	CO4	3	2	3	2	1	0	3	2	2	3	2
III	PYSE302	Electronics - I	III	CO5	3	3	2	2	1	0	2	2	2	2	2
III	PYSE302	Electronics - I	III	PYSE302	3.0	2.4	2.6	2.0	1.0	0.0	2.8	2.2	2.2	2.2	2.0
III	PYL 301	Condensed Matter Physics LAB	III	CO1	3	2	3	2	2	1	3	2	3	2	2
III	PYL 301	Condensed Matter Physics LAB	III	CO2	3	2	3	2	2	1	2	2	3	2	2
III	PYL 301	Condensed Matter Physics LAB	III	CO3	3	2	2	2	2	1	2	2	2	3	2
III	PYL 301	Condensed Matter Physics LAB	III	CO4	3	2	3	2	2	1	3	2	3	2	2
III	PYL 301	Condensed Matter Physics LAB	III	CO5	3	2	2	1	2	1	3	3	2	1	2
III	PYL 301	Condensed Matter Physics LAB	III	PYL 301	3.0	2.0	2.6	1.8	2.0	1.0	2.6	2.2	2.6	2.0	2.0
III	PYL 302	Electronics LAB	III	CO1	3	2	3	2	1	0	2	2	2	2	2
III	PYL 302	Electronics LAB	III	CO2	3	2	3	2	2	0	2	2	3	2	3
III	PYL 302	Electronics LAB	III	CO3	3	2	2	2	1	0	3	2	2	2	2
III	PYL 302	Electronics LAB	III	CO4	3	3	3	2	1	0	2	2	3	2	2
III	PYL 302	Electronics LAB	III	CO5	3	2	2	2	1	0	2	3	2	2	2
III	PYL 302	Electronics LAB	III	PYL 302	3.0	2.2	2.6	2.0	1.2	0.0	2.2	2.2	2.4	2.0	2.2
IV	PYC401	Atomic and Molecular Physics	IV	CO1	3	2	3	2	2	1	3	3	2	3	2
IV	PYC401	Atomic and Molecular Physics	IV	CO2	3	2	2	2	2	1	2	2	2	2	2
IV	PYC401	Atomic and Molecular Physics	IV	CO3	3	2	3	3	2	1	3	2	2	3	2
IV	PYC401	Atomic and Molecular Physics	IV	CO4	3	2	2	2	2	1	2	3	2	3	2
IV	PYC401	Atomic and Molecular Physics	IV	CO5	3	2	3	2	2	1	2	2	2	2	2
IV	PYC401	Atomic and Molecular Physics	IV	PYC401	3.0	2.0	2.6	2.2	2.0	1.0	2.4	2.4	2.0	2.6	2.0
IV	PYE401	Physics of Lasers and Laser Applications	IV	CO1	3	2	3	2	2	1	3	2	2	2	2

IV	PYE401	Physics of Lasers and Laser Applications	IV	CO2	3	2	2	2	1	1	2	2	2	3	2
IV	PYE401	Physics of Lasers and Laser Applications	IV	CO3	3	2	2	3	2	1	2	2	2	2	2
IV	PYE401	Physics of Lasers and Laser Applications	IV	CO4	3	2	3	2	1	1	3	3	2	3	2
IV	PYE401	Physics of Lasers and Laser Applications	IV	CO5	3	2	2	2	2	1	2	2	2	2	2
IV	PYE401	Physics of Lasers and Laser Applications	IV	PYE401	3.0	2.0	2.4	2.2	1.6	1.0	2.4	2.2	2.0	2.4	2.0
IV	PYSE401	Condensed Matter Physics-II	IV	CO1	3	2	2	2	1	1	3	2	2	3	2
IV	PYSE401	Condensed Matter Physics-II	IV	CO2	3	2	2	2	1	1	2	2	2	2	3
IV	PYSE401	Condensed Matter Physics-II	IV	CO3	3	3	2	2	1	1	3	2	2	3	2
IV	PYSE401	Condensed Matter Physics-II	IV	CO4	3	2	2	2	1	1	3	3	2	2	2
IV	PYSE401	Condensed Matter Physics-II	IV	CO5	3	2	2	2	1	1	2	2	2	3	2
IV	PYSE401	Condensed Matter Physics-II	IV	PYSE401	3.0	2.2	2.0	2.0	1.0	1.0	2.6	2.2	2.0	2.6	2.2
IV	PYSE402	Electronics-II	IV	CO1	3	2	2	2	1	0	2	3	3	2	2
IV	PYSE402	Electronics-II	IV	CO2	3	2	2	3	1	0	2	2	2	2	2
IV	PYSE402	Electronics-II	IV	CO3	3	3	2	3	1	0	3	2	3	3	3
IV	PYSE402	Electronics-II	IV	CO4	3	2	2	3	1	0	2	2	2	2	3
IV	PYSE402	Electronics-II	IV	CO5	3	2	2	2	1	0	2	2	2	2	2
IV	PYSE402	Electronics-II	IV	PYSE402	3.0	2.2	2.0	2.6	1.0	0.0	2.2	2.2	2.4	2.2	2.4
IV	PYL 401	Condensed Matter Physics LAB	IV	CO1	3	2	2	2	2	1	2	3	2	2	2
IV	PYL 401	Condensed Matter Physics LAB	IV	CO2	3	2	2	2	2	1	2	2	2	2	3
IV	PYL 401	Condensed Matter Physics LAB	IV	CO3	3	3	2	3	2	1	3	2	3	3	2
IV	PYL 401	Condensed Matter Physics LAB	IV	CO4	3	2	2	3	2	1	2	3	3	2	2
IV	PYL 401	Condensed Matter Physics LAB	IV	CO5	3	2	2	2	2	1	2	2	3	2	2
IV	PYL 401	Condensed Matter Physics LAB	IV	PYL 401	3.0	2.2	2.0	2.4	2.0	1.0	2.2	2.4	2.6	2.2	2.2
IV	PYL 402	Electronics LAB	IV	CO1	3	2	2	2	1	0	2	3	3	2	3
IV	PYL 402	Electronics LAB	IV	CO2	3	3	2	2	1	0	3	2	2	2	3
IV	PYL 402	Electronics LAB	IV	CO3	3	3	2	3	1	0	3	3	2	2	2
IV	PYL 402	Electronics LAB	IV	CO4	3	2	2	2	1	0	2	2	2	2	3
IV	PYL 402	Electronics LAB	IV	CO5	3	3	2	2	1	0	2	3	2	2	3
IV	PYL 402	Electronics LAB	IV	PYL 402	3.0	2.6	2.0	2.2	1.0	0.0	2.4	2.6	2.2	2.0	2.8

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CO-PO Mapping M.Sc. Physics (Session: 2020-22)

CourseCode:	Course Name	Sem		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
PYC101	Mathematical Methods	I	PYC101	3	2	1.2	2	1.4	0	3	3	1.4	3	3
PYC102	Classical Mechanics	I	PYC102	3	2	1.4	2	1.8	0	3	3	2	3	3
PYC103	Electronic Devices	I	PYC103	3	2	1.4	2.4	2.2	0	2	2	2	3	2.2
PYE101	Computational Methods and Programming	I	PYE101	3	2	1	2	3	0	1.8	3	3	2	1.6
PYL 104	Lab A (Optics & Electronics)	I	PYL 104	3	2.2	2.4	1.8	2.2	0	2.4	2.4	2.6	1.8	1.2
PYL 105	Lab B (Computer Programming)	I	PYL 105	3	1.6	2	2	1	0	2.2	2	2	1.8	1.4
PYC201	Quantum Mechanics -I	II	PYC201	3	1.6	2.4	1.6	1.6	0	2	3	2	3	2
PYC202	Statistical Mechanics	II	PYC202	2.8	2.4	2.4	2.2	1.6	0	3	1.8	2.2	3	2.6
PYC203	Electrodynamics and Plasma Physics	II	PYC203	3	2.2	2.2	2.2	1.4	0	2.4	2.2	2.4	2	2.2
PYE201	Condensed Matter Physics	II	PYE201	3	2	2.4	2	2	1	2.6	3	2	2.6	2
PYL 204	Lab A (Optics & Electronics)	II	PYL 204	3	2	2	2.6	1	1	3	3	2	2.4	2
PYL 205	Lab B (Computer Programming)	II	PYL 205	3	2	2	2.6	1	2.4	2	3	2	2.6	2.6
PYC301	Quantum Mechanics – II	III	PYC301	3	2	1.6	1.8	2	0	1.8	3	2	2.4	2
PYC302	Nuclear and Particle Physics	III	PYC302	3	2	3	2	0	0	2.8	3	3	2.4	2
PYSE301	Condensed Matter Physics - I	III	PYSE301	3	2.4	2.8	2.4	2.4	1	2.6	2.4	2.6	2	2.2
PYSE302	Electronics - I	III	PYSE302	3	2.4	2.6	2	1	0	2.8	2.2	2.2	2.2	2
PYL 301	Condensed Matter Physics LAB	III	PYL 301	3	2	2.6	1.8	2	1	2.6	2.2	2.6	2	2
PYL 302	Electronics LAB	III	PYL 302	3	2.2	2.6	2	1.2	0	2.2	2.2	2.4	2	2.2
PYC401	Atomic and Molecular Physics	IV	PYC401	3	2	2.6	2.2	2	1	2.4	2.4	2	2.6	2
PYE401	Physics of Lasers and Laser Applications	IV	PYE401	3	2	2.4	2.2	1.6	1	2.4	2.2	2	2.4	2
PYSE401	Condensed Matter Physics-II	IV	PYSE401	3	2.2	2	2	1	1	2.6	2.2	2	2.6	2.2
PYSE402	Electronics-II	IV	PYSE402	3	2.2	2	2.6	1	0	2.2	2.2	2.4	2.2	2.4
PYL 401	Condensed Matter Physics LAB	IV	PYL 401	3	2.2	2	2.4	2	1	2.2	2.4	2.6	2.2	2.2
PYL 402	Electronics LAB	IV	PYL 402	3	2.6	2	2.2	1	0	2.4	2.6	2.2	2	2.8
				3	2.1	2.1	2.1	1.6	0.4	2.4	2.5	2.2	2.4	2.2

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CO-PO Attainment M.Sc. Physics (Session: 2020-22)

Semester	ROLLNO	EXCODE	SUBCODE	ESE Obtained Marks	ESE Max Marks	Sessional Obtained Marks	Sessional Max Marks	Total Obtained Marks	Total Max marks	CA/ (ESE+CA) ratio	ESE %	CA %	Total %	ESE benchmark (X) %	CA benchmark (X) %	Total benchmark (X) %	ESE >= X	CA >= X	Total >= X
I	20123161	U053	PYC101	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
I	20123161	U053	PYC102	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123161	U053	PYC103	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123161	U053	PYE101	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123161	U053	PYL 104	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123161	U053	PYL 105	54	60	36	40	90	100	0.4	90	90	90	65	65	65	1	1	1
I	20123162	U053	PYC101	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
I	20123162	U053	PYC102	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123162	U053	PYC103	35	60	23	40	58	100	0.4	58	58	58	65	65	65	0	0	0
I	20123162	U053	PYE101	53	60	35	40	88	100	0.4	88	88	88	65	65	65	1	1	1
I	20123162	U053	PYL 104	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123162	U053	PYL 105	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123163	U053	PYC101	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123163	U053	PYC102	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123163	U053	PYC103	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
I	20123163	U053	PYE101	53	60	35	40	88	100	0.4	88	88	88	65	65	65	1	1	1
I	20123163	U053	PYL 104	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123163	U053	PYL 105	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123164	U053	PYC101	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123164	U053	PYC102	53	60	35	40	88	100	0.4	88	88	88	65	65	65	1	1	1
I	20123164	U053	PYC103	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123164	U053	PYE101	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
I	20123164	U053	PYL 104	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123164	U053	PYL 105	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123166	U053	PYC101	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123166	U053	PYC102	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123166	U053	PYC103	32	60	21	40	53	100	0.4	53	53	53	65	65	65	0	0	0

I	20123166	U053	PYE101	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123166	U053	PYL 104	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123166	U053	PYL 105	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123168	U053	PYC101	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123168	U053	PYC102	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123168	U053	PYC103	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
I	20123168	U053	PYE101	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123168	U053	PYL 104	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123168	U053	PYL 105	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
I	20123171	U053	PYC101	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123171	U053	PYC102	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123171	U053	PYC103	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123171	U053	PYE101	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123171	U053	PYL 104	33	60	22	40	55	100	0.4	55	55	55	65	65	65	0	0	0
I	20123171	U053	PYL 105	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123172	U053	PYC101	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123172	U053	PYC102	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123172	U053	PYC103	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
I	20123172	U053	PYE101	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123172	U053	PYL 104	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123172	U053	PYL 105	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
I	20123173	U053	PYC101	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123173	U053	PYC102	54	60	36	40	90	100	0.4	90	90	90	65	65	65	1	1	1
I	20123173	U053	PYC103	35	60	23	40	58	100	0.4	58	58	58	65	65	65	0	0	0
I	20123173	U053	PYE101	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123173	U053	PYL 104	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123173	U053	PYL 105	54	60	36	40	90	100	0.4	90	90	90	65	65	65	1	1	1
I	20123174	U053	PYC101	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
I	20123174	U053	PYC102	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123174	U053	PYC103	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123174	U053	PYE101	53	60	35	40	88	100	0.4	88	88	88	65	65	65	1	1	1
I	20123174	U053	PYL 104	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123174	U053	PYL 105	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123175	U053	PYC101	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1

I	20123175	U053	PYC102	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123175	U053	PYC103	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123175	U053	PYE101	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123175	U053	PYL 104	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
I	20123175	U053	PYL 105	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123178	U053	PYC101	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123178	U053	PYC102	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123178	U053	PYC103	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
I	20123178	U053	PYE101	54	60	36	40	90	100	0.4	90	90	90	65	65	65	1	1	1
I	20123178	U053	PYL 104	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123178	U053	PYL 105	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123179	U053	PYC101	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
I	20123179	U053	PYC102	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123179	U053	PYC103	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
I	20123179	U053	PYE101	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123179	U053	PYL 104	33	60	22	40	55	100	0.4	55	55	55	65	65	65	0	0	0
I	20123179	U053	PYL 105	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123182	U053	PYC101	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
I	20123182	U053	PYC102	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
I	20123182	U053	PYC103	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123182	U053	PYE101	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123182	U053	PYL 104	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123182	U053	PYL 105	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123183	U053	PYC101	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123183	U053	PYC102	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123183	U053	PYC103	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123183	U053	PYE101	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123183	U053	PYL 104	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123183	U053	PYL 105	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123184	U053	PYC101	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
I	20123184	U053	PYC102	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
I	20123184	U053	PYC103	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123184	U053	PYE101	59	60	39	40	98	100	0.4	98	98	98	65	65	65	1	1	1
I	20123184	U053	PYL 104	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1

I	20123184	U053	PYL 105	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
I	20123185	U053	PYC101	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
I	20123185	U053	PYC102	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
I	20123185	U053	PYC103	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123185	U053	PYE101	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123185	U053	PYL 104	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123185	U053	PYL 105	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
I	20123186	U053	PYC101	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123186	U053	PYC102	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
I	20123186	U053	PYC103	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123186	U053	PYE101	56	60	37	40	93	100	0.4	93	93	93	65	65	65	1	1	1
I	20123186	U053	PYL 104	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123186	U053	PYL 105	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
I	20123188	U053	PYC101	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123188	U053	PYC102	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
I	20123188	U053	PYC103	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
I	20123188	U053	PYE101	54	60	36	40	90	100	0.4	90	90	90	65	65	65	1	1	1
I	20123188	U053	PYL 104	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123188	U053	PYL 105	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123189	U053	PYC101	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123189	U053	PYC102	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
I	20123189	U053	PYC103	35	60	23	40	58	100	0.4	58	58	58	65	65	65	0	0	0
I	20123189	U053	PYE101	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123189	U053	PYL 104	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123189	U053	PYL 105	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
I	20123191	U053	PYC101	33	60	22	40	55	100	0.4	55	55	55	65	65	65	0	0	0
I	20123191	U053	PYC102	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
I	20123191	U053	PYC103	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123191	U053	PYE101	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123191	U053	PYL 104	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
I	20123191	U053	PYL 105	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
I	20123192	U053	PYC101	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
I	20123192	U053	PYC102	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123192	U053	PYC103	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1

I	20123192	U053	PYE101	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
I	20123192	U053	PYL 104	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
I	20123192	U053	PYL 105	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123161	U053	PYC201	40	60	27	40	67	100	0.4	67	68	67	65	65	65	1	1	1
II	20123161	U053	PYC202	46	60	31	40	77	100	0.4	77	78	77	65	65	65	1	1	1
II	20123161	U053	PYC203	38	60	26	40	64	100	0.4	63	65	64	65	65	65	0	1	0
II	20123161	U053	PYE201	43	60	28	40	71	100	0.4	72	70	71	65	65	65	1	1	1
II	20123161	U053	PYL 204	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123161	U053	PYL 205	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123162	U053	PYC201	41	60	28	40	69	100	0.4	68	70	69	65	65	65	1	1	1
II	20123162	U053	PYC202	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123162	U053	PYC203	39	60	25	40	64	100	0.4	65	63	64	65	65	65	1	0	0
II	20123162	U053	PYE201	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
II	20123162	U053	PYL 204	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123162	U053	PYL 205	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
II	20123163	U053	PYC201	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123163	U053	PYC202	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123163	U053	PYC203	40	60	26	40	66	100	0.4	67	65	66	65	65	65	1	1	1
II	20123163	U053	PYE201	49	60	33	40	82	100	0.4	82	83	82	65	65	65	1	1	1
II	20123163	U053	PYL 204	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
II	20123163	U053	PYL 205	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123164	U053	PYC201	37	60	25	40	62	100	0.4	62	63	62	65	65	65	0	0	0
II	20123164	U053	PYC202	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
II	20123164	U053	PYC203	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
II	20123164	U053	PYE201	32	60	21	40	53	100	0.4	53	53	53	65	65	65	0	0	0
II	20123164	U053	PYL 204	32	60	21	40	53	100	0.4	53	53	53	65	65	65	0	0	0
II	20123164	U053	PYL 205	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
II	20123166	U053	PYC201	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123166	U053	PYC202	42	60	29	40	71	100	0.4	70	73	71	65	65	65	1	1	1
II	20123166	U053	PYC203	32	60	22	40	54	100	0.4	53	55	54	65	65	65	0	0	0
II	20123166	U053	PYE201	45	60	31	40	76	100	0.4	75	78	76	65	65	65	1	1	1
II	20123166	U053	PYL 204	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123166	U053	PYL 205	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123168	U053	PYC201	43	60	28	40	71	100	0.4	72	70	71	65	65	65	1	1	1

II	20123168	U053	PYC202	49	60	33	40	82	100	0.4	82	83	82	65	65	65	1	1	1
II	20123168	U053	PYC203	36	60	25	40	61	100	0.4	60	63	61	65	65	65	0	0	0
II	20123168	U053	PYE201	43	60	29	40	72	100	0.4	72	73	72	65	65	65	1	1	1
II	20123168	U053	PYL 204	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
II	20123168	U053	PYL 205	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123171	U053	PYC201	44	60	30	40	74	100	0.4	73	75	74	65	65	65	1	1	1
II	20123171	U053	PYC202	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123171	U053	PYC203	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123171	U053	PYE201	46	60	31	40	77	100	0.4	77	78	77	65	65	65	1	1	1
II	20123171	U053	PYL 204	33	60	22	40	55	100	0.4	55	55	55	65	65	65	0	0	0
II	20123171	U053	PYL 205	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
II	20123172	U053	PYC201	43	60	28	40	71	100	0.4	72	70	71	65	65	65	1	1	1
II	20123172	U053	PYC202	45	60	29	40	74	100	0.4	75	73	74	65	65	65	1	1	1
II	20123172	U053	PYC203	38	60	26	40	64	100	0.4	63	65	64	65	65	65	0	1	0
II	20123172	U053	PYE201	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
II	20123172	U053	PYL 204	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123172	U053	PYL 205	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123173	U053	PYC201	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123173	U053	PYC202	52	60	35	40	87	100	0.4	87	88	87	65	65	65	1	1	1
II	20123173	U053	PYC203	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
II	20123173	U053	PYE201	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
II	20123173	U053	PYL 204	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
II	20123173	U053	PYL 205	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
II	20123174	U053	PYC201	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
II	20123174	U053	PYC202	51	60	34	40	85	100	0.4	85	85	85	65	65	65	1	1	1
II	20123174	U053	PYC203	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123174	U053	PYE201	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
II	20123174	U053	PYL 204	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123174	U053	PYL 205	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
II	20123175	U053	PYC201	45	60	29	40	74	100	0.4	75	73	74	65	65	65	1	1	1
II	20123175	U053	PYC202	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
II	20123175	U053	PYC203	39	60	27	40	66	100	0.4	65	68	66	65	65	65	1	1	1
II	20123175	U053	PYE201	49	60	33	40	82	100	0.4	82	83	82	65	65	65	1	1	1
II	20123175	U053	PYL 204	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1

II	20123175	U053	PYL 205	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123178	U053	PYC201	41	60	28	40	69	100	0.4	68	70	69	65	65	65	1	1	1
II	20123178	U053	PYC202	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
II	20123178	U053	PYC203	37	60	25	40	62	100	0.4	62	63	62	65	65	65	0	0	0
II	20123178	U053	PYE201	49	60	32	40	81	100	0.4	82	80	81	65	65	65	1	1	1
II	20123178	U053	PYL 204	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123178	U053	PYL 205	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123179	U053	PYC201	40	60	27	40	67	100	0.4	67	68	67	65	65	65	1	1	1
II	20123179	U053	PYC202	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123179	U053	PYC203	35	60	23	40	58	100	0.4	58	58	58	65	65	65	0	0	0
II	20123179	U053	PYE201	39	60	27	40	66	100	0.4	65	68	66	65	65	65	1	1	1
II	20123179	U053	PYL 204	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123179	U053	PYL 205	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
II	20123182	U053	PYC201	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
II	20123182	U053	PYC202	44	60	30	40	74	100	0.4	73	75	74	65	65	65	1	1	1
II	20123182	U053	PYC203	40	60	27	40	67	100	0.4	67	68	67	65	65	65	1	1	1
II	20123182	U053	PYE201	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123182	U053	PYL 204	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123182	U053	PYL 205	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
II	20123183	U053	PYC201	43	60	29	40	72	100	0.4	72	73	72	65	65	65	1	1	1
II	20123183	U053	PYC202	46	60	31	40	77	100	0.4	77	78	77	65	65	65	1	1	1
II	20123183	U053	PYC203	40	60	27	40	67	100	0.4	67	68	67	65	65	65	1	1	1
II	20123183	U053	PYE201	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123183	U053	PYL 204	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123183	U053	PYL 205	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
II	20123184	U053	PYC201	50	60	34	40	84	100	0.4	83	85	84	65	65	65	1	1	1
II	20123184	U053	PYC202	48	60	32	40	80	100	0.4	80	80	80	65	65	65	1	1	1
II	20123184	U053	PYC203	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123184	U053	PYE201	53	60	35	40	88	100	0.4	88	88	88	65	65	65	1	1	1
II	20123184	U053	PYL 204	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
II	20123184	U053	PYL 205	50	60	33	40	83	100	0.4	83	83	83	65	65	65	1	1	1
II	20123185	U053	PYC201	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123185	U053	PYC202	46	60	31	40	77	100	0.4	77	78	77	65	65	65	1	1	1
II	20123185	U053	PYC203	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1

II	20123185	U053	PYE201	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
II	20123185	U053	PYL 204	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123185	U053	PYL 205	42	60	28	40	70	100	0.4	70	70	70	65	65	65	1	1	1
II	20123186	U053	PYC201	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
II	20123186	U053	PYC202	49	60	32	40	81	100	0.4	82	80	81	65	65	65	1	1	1
II	20123186	U053	PYC203	41	60	28	40	69	100	0.4	68	70	69	65	65	65	1	1	1
II	20123186	U053	PYE201	50	60	34	40	84	100	0.4	83	85	84	65	65	65	1	1	1
II	20123186	U053	PYL 204	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
II	20123186	U053	PYL 205	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123188	U053	PYC201	44	60	30	40	74	100	0.4	73	75	74	65	65	65	1	1	1
II	20123188	U053	PYC202	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123188	U053	PYC203	37	60	25	40	62	100	0.4	62	63	62	65	65	65	0	0	0
II	20123188	U053	PYE201	49	60	33	40	82	100	0.4	82	83	82	65	65	65	1	1	1
II	20123188	U053	PYL 204	45	60	30	40	75	100	0.4	75	75	75	65	65	65	1	1	1
II	20123188	U053	PYL 205	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123189	U053	PYC201	40	60	27	40	67	100	0.4	67	68	67	65	65	65	1	1	1
II	20123189	U053	PYC202	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
II	20123189	U053	PYC203	34	60	23	40	57	100	0.4	57	58	57	65	65	65	0	0	0
II	20123189	U053	PYE201	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123189	U053	PYL 204	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123189	U053	PYL 205	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123191	U053	PYC201	37	60	25	40	62	100	0.4	62	63	62	65	65	65	0	0	0
II	20123191	U053	PYC202	44	60	29	40	73	100	0.4	73	73	73	65	65	65	1	1	1
II	20123191	U053	PYC203	37	60	24	40	61	100	0.4	62	60	61	65	65	65	0	0	0
II	20123191	U053	PYE201	41	60	28	40	69	100	0.4	68	70	69	65	65	65	1	1	1
II	20123191	U053	PYL 204	41	60	27	40	68	100	0.4	68	68	68	65	65	65	1	1	1
II	20123191	U053	PYL 205	36	60	24	40	60	100	0.4	60	60	60	65	65	65	0	0	0
II	20123192	U053	PYC201	43	60	28	40	71	100	0.4	72	70	71	65	65	65	1	1	1
II	20123192	U053	PYC202	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
II	20123192	U053	PYC203	39	60	26	40	65	100	0.4	65	65	65	65	65	65	1	1	1
II	20123192	U053	PYE201	45	60	31	40	76	100	0.4	75	78	76	65	65	65	1	1	1
II	20123192	U053	PYL 204	38	60	25	40	63	100	0.4	63	63	63	65	65	65	0	0	0
II	20123192	U053	PYL 205	47	60	31	40	78	100	0.4	78	78	78	65	65	65	1	1	1
III	20123161	U053	PYC301	16	60	19	40	35	100	0.4	27	48	35	65	65	65	0	0	0

III	20123161	U053	PYC302	23	60	19	40	42	100	0.4	38	48	42	65	65	65	0	0	0
III	20123161	U053	PYSE301	21	60	21	40	42	100	0.4	35	53	42	65	65	65	0	0	0
III	20123161	U053	PYSE302	23	60	17	40	40	100	0.4	38	43	40	65	65	65	0	0	0
III	20123161	U053	PYL 301	48	60	24	40	72	100	0.4	80	60	72	65	65	65	1	0	1
III	20123161	U053	PYL 302	40	60	26	40	66	100	0.4	67	65	66	65	65	65	1	1	1
III	20123162	U053	PYC301	29	60	22	40	51	100	0.4	48	55	51	65	65	65	0	0	0
III	20123162	U053	PYC302	23	60	16	40	39	100	0.4	38	40	39	65	65	65	0	0	0
III	20123162	U053	PYSE301	21	60	16	40	37	100	0.4	35	40	37	65	65	65	0	0	0
III	20123162	U053	PYSE302	24	60	18	40	42	100	0.4	40	45	42	65	65	65	0	0	0
III	20123162	U053	PYL 301	45	60	19	40	64	100	0.4	75	48	64	65	65	65	1	0	0
III	20123162	U053	PYL 302	45	60	27	40	72	100	0.4	75	68	72	65	65	65	1	1	1
III	20123163	U053	PYC301	19	60	20	40	39	100	0.4	32	50	39	65	65	65	0	0	0
III	20123163	U053	PYC302	21	60	15	40	36	100	0.4	35	38	36	65	65	65	0	0	0
III	20123163	U053	PYSE301	21	60	16	40	37	100	0.4	35	40	37	65	65	65	0	0	0
III	20123163	U053	PYSE302	19	60	20	40	39	100	0.4	32	50	39	65	65	65	0	0	0
III	20123163	U053	PYL 301	44	60	21	40	65	100	0.4	73	53	65	65	65	65	1	0	1
III	20123163	U053	PYL 302	50	60	20	40	70	100	0.4	83	50	70	65	65	65	1	0	1
III	20123164	U053	PYC301	20	60	27	40	47	100	0.4	33	68	47	65	65	65	0	1	0
III	20123164	U053	PYC302	17	60	18	40	35	100	0.4	28	45	35	65	65	65	0	0	0
III	20123164	U053	PYSE301	21	60	17	40	38	100	0.4	35	43	38	65	65	65	0	0	0
III	20123164	U053	PYSE302	15	60	20	40	35	100	0.4	25	50	35	65	65	65	0	0	0
III	20123164	U053	PYL 301	42	60	16	40	58	100	0.4	70	40	58	65	65	65	1	0	0
III	20123164	U053	PYL 302	39	60	16	40	55	100	0.4	65	40	55	65	65	65	1	0	0
III	20123166	U053	PYC301	19	60	26	40	45	100	0.4	32	65	45	65	65	65	0	1	0
III	20123166	U053	PYC302	21	60	26	40	47	100	0.4	35	65	47	65	65	65	0	1	0
III	20123166	U053	PYSE301	25	60	19	40	44	100	0.4	42	48	44	65	65	65	0	0	0
III	20123166	U053	PYSE302	18	60	17	40	35	100	0.4	30	43	35	65	65	65	0	0	0
III	20123166	U053	PYL 301	48	60	21	40	69	100	0.4	80	53	69	65	65	65	1	0	1
III	20123166	U053	PYL 302	40	60	29	40	69	100	0.4	67	73	69	65	65	65	1	1	1
III	20123168	U053	PYC301	37	60	31	40	68	100	0.4	62	78	68	65	65	65	0	1	1
III	20123168	U053	PYC302	34	60	34	40	68	100	0.4	57	85	68	65	65	65	0	1	1
III	20123168	U053	PYSE301	34	60	28	40	62	100	0.4	57	70	62	65	65	65	0	1	0
III	20123168	U053	PYSE302	26	60	26	40	52	100	0.4	43	65	52	65	65	65	0	1	0
III	20123168	U053	PYL 301	52	60	24	40	76	100	0.4	87	60	76	65	65	65	1	0	1

III	20123168	U053	PYL 302	54	60	27	40	81	100	0.4	90	68	81	65	65	65	1	1	1
III	20123171	U053	PYC301	22	60	15	40	37	100	0.4	37	38	37	65	65	65	0	0	0
III	20123171	U053	PYC302	15	60	20	40	35	100	0.4	25	50	35	65	65	65	0	0	0
III	20123171	U053	PYSE301	24	60	14	40	38	100	0.4	40	35	38	65	65	65	0	0	0
III	20123171	U053	PYSE302	19	60	16	40	35	100	0.4	32	40	35	65	65	65	0	0	0
III	20123171	U053	PYL 301	40	60	15	40	55	100	0.4	67	38	55	65	65	65	1	0	0
III	20123171	U053	PYL 302	37	60	16	40	53	100	0.4	62	40	53	65	65	65	0	0	0
III	20123172	U053	PYC301	18	60	24	40	42	100	0.4	30	60	42	65	65	65	0	0	0
III	20123172	U053	PYC302	26	60	16	40	42	100	0.4	43	40	42	65	65	65	0	0	0
III	20123172	U053	PYSE301	26	60	20	40	46	100	0.4	43	50	46	65	65	65	0	0	0
III	20123172	U053	PYSE302	28	60	18	40	46	100	0.4	47	45	46	65	65	65	0	0	0
III	20123172	U053	PYL 301	30	60	18	40	48	100	0.4	50	45	48	65	65	65	0	0	0
III	20123172	U053	PYL 302	38	60	28	40	66	100	0.4	63	70	66	65	65	65	0	1	1
III	20123173	U053	PYC301	17	60	33	40	50	100	0.4	28	83	50	65	65	65	0	1	0
III	20123173	U053	PYC302	28	60	23	40	51	100	0.4	47	58	51	65	65	65	0	0	0
III	20123173	U053	PYSE301	32	60	27	40	59	100	0.4	53	68	59	65	65	65	0	1	0
III	20123173	U053	PYSE302	35	60	19	40	54	100	0.4	58	48	54	65	65	65	0	0	0
III	20123173	U053	PYL 301	52	60	29	40	81	100	0.4	87	73	81	65	65	65	1	1	1
III	20123173	U053	PYL 302	54	60	34	40	88	100	0.4	90	85	88	65	65	65	1	1	1
III	20123174	U053	PYC301	38	60	35	40	73	100	0.4	63	88	73	65	65	65	0	1	1
III	20123174	U053	PYC302	32	60	32	40	64	100	0.4	53	80	64	65	65	65	0	1	0
III	20123174	U053	PYSE301	40	60	21	40	61	100	0.4	67	53	61	65	65	65	1	0	0
III	20123174	U053	PYSE302	28	60	24	40	52	100	0.4	47	60	52	65	65	65	0	0	0
III	20123174	U053	PYL 301	53	60	24	40	77	100	0.4	88	60	77	65	65	65	1	0	1
III	20123174	U053	PYL 302	50	60	31	40	81	100	0.4	83	78	81	65	65	65	1	1	1
III	20123175	U053	PYC301	21	60	20	40	41	100	0.4	35	50	41	65	65	65	0	0	0
III	20123175	U053	PYC302	17	60	18	40	35	100	0.4	28	45	35	65	65	65	0	0	0
III	20123175	U053	PYSE301	26	60	22	40	48	100	0.4	43	55	48	65	65	65	0	0	0
III	20123175	U053	PYSE302	20	60	19	40	39	100	0.4	33	48	39	65	65	65	0	0	0
III	20123175	U053	PYL 301	42	60	22	40	64	100	0.4	70	55	64	65	65	65	1	0	0
III	20123175	U053	PYL 302	34	60	29	40	63	100	0.4	57	73	63	65	65	65	0	1	0
III	20123178	U053	PYC301	15	60	20	40	35	100	0.4	25	50	35	65	65	65	0	0	0
III	20123178	U053	PYC302	20	60	15	40	35	100	0.4	33	38	35	65	65	65	0	0	0
III	20123178	U053	PYSE301	21	60	15	40	36	100	0.4	35	38	36	65	65	65	0	0	0

III	20123178	U053	PYSE302	19	60	16	40	35	100	0.4	32	40	35	65	65	65	0	0	0
III	20123178	U053	PYL 301	34	60	15	40	49	100	0.4	57	38	49	65	65	65	0	0	0
III	20123178	U053	PYL 302	38	60	21	40	59	100	0.4	63	53	59	65	65	65	0	0	0
III	20123179	U053	PYC301	17	60	18	40	35	100	0.4	28	45	35	65	65	65	0	0	0
III	20123179	U053	PYC302	18	60	17	40	35	100	0.4	30	43	35	65	65	65	0	0	0
III	20123179	U053	PYSE301	21	60	16	40	37	100	0.4	35	40	37	65	65	65	0	0	0
III	20123179	U053	PYSE302	20	60	15	40	35	100	0.4	33	38	35	65	65	65	0	0	0
III	20123179	U053	PYL 301	34	60	15	40	49	100	0.4	57	38	49	65	65	65	0	0	0
III	20123179	U053	PYL 302	36	60	22	40	58	100	0.4	60	55	58	65	65	65	0	0	0
III	20123182	U053	PYC301	16	60	19	40	35	100	0.4	27	48	35	65	65	65	0	0	0
III	20123182	U053	PYC302	31	60	23	40	54	100	0.4	52	58	54	65	65	65	0	0	0
III	20123182	U053	PYSE301	36	60	25	40	61	100	0.4	60	63	61	65	65	65	0	0	0
III	20123182	U053	PYSE302	24	60	18	40	42	100	0.4	40	45	42	65	65	65	0	0	0
III	20123182	U053	PYL 301	53	60	26	40	79	100	0.4	88	65	79	65	65	65	1	1	1
III	20123182	U053	PYL 302	50	60	24	40	74	100	0.4	83	60	74	65	65	65	1	0	1
III	20123183	U053	PYC301	22	60	25	40	47	100	0.4	37	63	47	65	65	65	0	0	0
III	20123183	U053	PYC302	22	60	24	40	46	100	0.4	37	60	46	65	65	65	0	0	0
III	20123183	U053	PYSE301	32	60	16	40	48	100	0.4	53	40	48	65	65	65	0	0	0
III	20123183	U053	PYSE302	25	60	20	40	45	100	0.4	42	50	45	65	65	65	0	0	0
III	20123183	U053	PYL 301	50	60	19	40	69	100	0.4	83	48	69	65	65	65	1	0	1
III	20123183	U053	PYL 302	50	60	25	40	75	100	0.4	83	63	75	65	65	65	1	0	1
III	20123184	U053	PYC301	22	60	31	40	53	100	0.4	37	78	53	65	65	65	0	1	0
III	20123184	U053	PYC302	24	60	18	40	42	100	0.4	40	45	42	65	65	65	0	0	0
III	20123184	U053	PYSE301	28	60	24	40	52	100	0.4	47	60	52	65	65	65	0	0	0
III	20123184	U053	PYSE302	23	60	24	40	47	100	0.4	38	60	47	65	65	65	0	0	0
III	20123184	U053	PYL 301	50	60	24	40	74	100	0.4	83	60	74	65	65	65	1	0	1
III	20123184	U053	PYL 302	53	60	28	40	81	100	0.4	88	70	81	65	65	65	1	1	1
III	20123185	U053	PYC301	21	60	31	40	52	100	0.4	35	78	52	65	65	65	0	1	0
III	20123185	U053	PYC302	37	60	30	40	67	100	0.4	62	75	67	65	65	65	0	1	1
III	20123185	U053	PYSE301	37	60	28	40	65	100	0.4	62	70	65	65	65	65	0	1	1
III	20123185	U053	PYSE302	30	60	16	40	46	100	0.4	50	40	46	65	65	65	0	0	0
III	20123185	U053	PYL 301	48	60	19	40	67	100	0.4	80	48	67	65	65	65	1	0	1
III	20123185	U053	PYL 302	49	60	28	40	77	100	0.4	82	70	77	65	65	65	1	1	1
III	20123186	U053	PYC301	26	60	30	40	56	100	0.4	43	75	56	65	65	65	0	1	0

III	20123186	U053	PYC302	27	60	22	40	49	100	0.4	45	55	49	65	65	65	0	0	0
III	20123186	U053	PYSE301	25	60	26	40	51	100	0.4	42	65	51	65	65	65	0	1	0
III	20123186	U053	PYSE302	22	60	21	40	43	100	0.4	37	53	43	65	65	65	0	0	0
III	20123186	U053	PYL 301	48	60	20	40	68	100	0.4	80	50	68	65	65	65	1	0	1
III	20123186	U053	PYL 302	41	60	26	40	67	100	0.4	68	65	67	65	65	65	1	1	1
III	20123188	U053	PYC301	19	60	28	40	47	100	0.4	32	70	47	65	65	65	0	1	0
III	20123188	U053	PYC302	31	60	18	40	49	100	0.4	52	45	49	65	65	65	0	0	0
III	20123188	U053	PYSE301	37	60	22	40	59	100	0.4	62	55	59	65	65	65	0	0	0
III	20123188	U053	PYSE302	22	60	21	40	43	100	0.4	37	53	43	65	65	65	0	0	0
III	20123188	U053	PYL 301	48	60	15	40	63	100	0.4	80	38	63	65	65	65	1	0	0
III	20123188	U053	PYL 302	41	60	23	40	64	100	0.4	68	58	64	65	65	65	1	0	0
III	20123189	U053	PYC301	24	60	29	40	53	100	0.4	40	73	53	65	65	65	0	1	0
III	20123189	U053	PYC302	28	60	23	40	51	100	0.4	47	58	51	65	65	65	0	0	0
III	20123189	U053	PYSE301	33	60	24	40	57	100	0.4	55	60	57	65	65	65	0	0	0
III	20123189	U053	PYSE302	26	60	20	40	46	100	0.4	43	50	46	65	65	65	0	0	0
III	20123189	U053	PYL 301	48	60	19	40	67	100	0.4	80	48	67	65	65	65	1	0	1
III	20123189	U053	PYL 302	43	60	29	40	72	100	0.4	72	73	72	65	65	65	1	1	1
III	20123191	U053	PYC301	18	60	17	40	35	100	0.4	30	43	35	65	65	65	0	0	0
III	20123191	U053	PYC302	19	60	16	40	35	100	0.4	32	40	35	65	65	65	0	0	0
III	20123191	U053	PYSE301	21	60	17	40	38	100	0.4	35	43	38	65	65	65	0	0	0
III	20123191	U053	PYSE302	18	60	17	40	35	100	0.4	30	43	35	65	65	65	0	0	0
III	20123191	U053	PYL 301	30	60	15	40	45	100	0.4	50	38	45	65	65	65	0	0	0
III	20123191	U053	PYL 302	40	60	15	40	55	100	0.4	67	38	55	65	65	65	1	0	0
III	20123192	U053	PYC301	22	60	19	40	41	100	0.4	37	48	41	65	65	65	0	0	0
III	20123192	U053	PYC302	25	60	14	40	39	100	0.4	42	35	39	65	65	65	0	0	0
III	20123192	U053	PYSE301	21	60	21	40	42	100	0.4	35	53	42	65	65	65	0	0	0
III	20123192	U053	PYSE302	22	60	15	40	37	100	0.4	37	38	37	65	65	65	0	0	0
III	20123192	U053	PYL 301	30	60	15	40	45	100	0.4	50	38	45	65	65	65	0	0	0
III	20123192	U053	PYL 302	39	60	19	40	58	100	0.4	65	48	58	65	65	65	1	0	0
IV	20123161	U053	PYC401	20	60	19	40	39	100	0.4	33	48	39	65	65	65	0	0	0
IV	20123161	U053	PYE401	23	60	23	40	46	100	0.4	38	58	46	65	65	65	0	0	0
IV	20123161	U053	PYSE401	24	60	24	40	48	100	0.4	40	60	48	65	65	65	0	0	0
IV	20123161	U053	PYSE402	26	60	20	40	46	100	0.4	43	50	46	65	65	65	0	0	0
IV	20123161	U053	PYL 401	48	60	26	40	74	100	0.4	80	65	74	65	65	65	1	1	1

IV	20123161	U053	PYL 402	48	60	21	40	69	100	0.4	80	53	69	65	65	65	1	0	1
IV	20123162	U053	PYC401	25	60	17	40	42	100	0.4	42	43	42	65	65	65	0	0	0
IV	20123162	U053	PYE401	21	60	18	40	39	100	0.4	35	45	39	65	65	65	0	0	0
IV	20123162	U053	PYSE401	20	60	20	40	40	100	0.4	33	50	40	65	65	65	0	0	0
IV	20123162	U053	PYSE402	22	60	16	40	38	100	0.4	37	40	38	65	65	65	0	0	0
IV	20123162	U053	PYL 401	47	60	20	40	67	100	0.4	78	50	67	65	65	65	1	0	1
IV	20123162	U053	PYL 402	50	60	24	40	74	100	0.4	83	60	74	65	65	65	1	0	1
IV	20123163	U053	PYC401	15	60	24	40	39	100	0.4	25	60	39	65	65	65	0	0	0
IV	20123163	U053	PYE401	20	60	27	40	47	100	0.4	33	68	47	65	65	65	0	1	0
IV	20123163	U053	PYSE401	17	60	19	40	36	100	0.4	28	48	36	65	65	65	0	0	0
IV	20123163	U053	PYSE402	20	60	16	40	36	100	0.4	33	40	36	65	65	65	0	0	0
IV	20123163	U053	PYL 401	45	60	19	40	64	100	0.4	75	48	64	65	65	65	1	0	0
IV	20123163	U053	PYL 402	40	60	14	40	54	100	0.4	67	35	54	65	65	65	1	0	0
IV	20123164	U053	PYC401	33	60	25	40	58	100	0.4	55	63	58	65	65	65	0	0	0
IV	20123164	U053	PYE401	25	60	25	40	50	100	0.4	42	63	50	65	65	65	0	0	0
IV	20123164	U053	PYSE401	21	60	21	40	42	100	0.4	35	53	42	65	65	65	0	0	0
IV	20123164	U053	PYSE402	22	60	17	40	39	100	0.4	37	43	39	65	65	65	0	0	0
IV	20123164	U053	PYL 401	40	60	18	40	58	100	0.4	67	45	58	65	65	65	1	0	0
IV	20123164	U053	PYL 402	38	60	14	40	52	100	0.4	63	35	52	65	65	65	0	0	0
IV	20123166	U053	PYC401	26	60	25	40	51	100	0.4	43	63	51	65	65	65	0	0	0
IV	20123166	U053	PYE401	26	60	26	40	52	100	0.4	43	65	52	65	65	65	0	1	0
IV	20123166	U053	PYSE401	25	60	26	40	51	100	0.4	42	65	51	65	65	65	0	1	0
IV	20123166	U053	PYSE402	27	60	23	40	50	100	0.4	45	58	50	65	65	65	0	0	0
IV	20123166	U053	PYL 401	46	60	16	40	62	100	0.4	77	40	62	65	65	65	1	0	0
IV	20123166	U053	PYL 402	35	60	15	40	50	100	0.4	58	38	50	65	65	65	0	0	0
IV	20123168	U053	PYC401	40	60	34	40	74	100	0.4	67	85	74	65	65	65	1	1	1
IV	20123168	U053	PYE401	35	60	33	40	68	100	0.4	58	83	68	65	65	65	0	1	1
IV	20123168	U053	PYSE401	28	60	33	40	61	100	0.4	47	83	61	65	65	65	0	1	0
IV	20123168	U053	PYSE402	26	60	28	40	54	100	0.4	43	70	54	65	65	65	0	1	0
IV	20123168	U053	PYL 401	54	60	25	40	79	100	0.4	90	63	79	65	65	65	1	0	1
IV	20123168	U053	PYL 402	50	60	29	40	79	100	0.4	83	73	79	65	65	65	1	1	1
IV	20123171	U053	PYC401	21	60	29	40	50	100	0.4	35	73	50	65	65	65	0	1	0
IV	20123171	U053	PYE401	24	60	27	40	51	100	0.4	40	68	51	65	65	65	0	1	0
IV	20123171	U053	PYSE401	26	60	28	40	54	100	0.4	43	70	54	65	65	65	0	1	0

IV	20123171	U053	PYSE402	24	60	21	40	45	100	0.4	40	53	45	65	65	65	0	0	0
IV	20123171	U053	PYL 401	38	60	15	40	53	100	0.4	63	38	53	65	65	65	0	0	0
IV	20123171	U053	PYL 402	34	60	15	40	49	100	0.4	57	38	49	65	65	65	0	0	0
IV	20123172	U053	PYC401	26	60	23	40	49	100	0.4	43	58	49	65	65	65	0	0	0
IV	20123172	U053	PYE401	25	60	23	40	48	100	0.4	42	58	48	65	65	65	0	0	0
IV	20123172	U053	PYSE401	26	60	25	40	51	100	0.4	43	63	51	65	65	65	0	0	0
IV	20123172	U053	PYSE402	31	60	17	40	48	100	0.4	52	43	48	65	65	65	0	0	0
IV	20123172	U053	PYL 401	40	60	14	40	54	100	0.4	67	35	54	65	65	65	1	0	0
IV	20123172	U053	PYL 402	38	60	17	40	55	100	0.4	63	43	55	65	65	65	0	0	0
IV	20123173	U053	PYC401	43	60	34	40	77	100	0.4	72	85	77	65	65	65	1	1	1
IV	20123173	U053	PYE401	36	60	33	40	69	100	0.4	60	83	69	65	65	65	0	1	1
IV	20123173	U053	PYSE401	45	60	34	40	79	100	0.4	75	85	79	65	65	65	1	1	1
IV	20123173	U053	PYSE402	36	60	32	40	68	100	0.4	60	80	68	65	65	65	0	1	1
IV	20123173	U053	PYL 401	54	60	36	40	90	100	0.4	90	90	90	65	65	65	1	1	1
IV	20123173	U053	PYL 402	54	60	22	40	76	100	0.4	90	55	76	65	65	65	1	0	1
IV	20123174	U053	PYC401	42	60	32	40	74	100	0.4	70	80	74	65	65	65	1	1	1
IV	20123174	U053	PYE401	34	60	33	40	67	100	0.4	57	83	67	65	65	65	0	1	1
IV	20123174	U053	PYSE401	39	60	32	40	71	100	0.4	65	80	71	65	65	65	1	1	1
IV	20123174	U053	PYSE402	30	60	26	40	56	100	0.4	50	65	56	65	65	65	0	1	0
IV	20123174	U053	PYL 401	54	60	31	40	85	100	0.4	90	78	85	65	65	65	1	1	1
IV	20123174	U053	PYL 402	45	60	20	40	65	100	0.4	75	50	65	65	65	65	1	0	1
IV	20123175	U053	PYC401	31	60	23	40	54	100	0.4	52	58	54	65	65	65	0	0	0
IV	20123175	U053	PYE401	26	60	20	40	46	100	0.4	43	50	46	65	65	65	0	0	0
IV	20123175	U053	PYSE401	35	60	29	40	64	100	0.4	58	73	64	65	65	65	0	1	0
IV	20123175	U053	PYSE402	24	60	21	40	45	100	0.4	40	53	45	65	65	65	0	0	0
IV	20123175	U053	PYL 401	43	60	21	40	64	100	0.4	72	53	64	65	65	65	1	0	0
IV	20123175	U053	PYL 402	48	60	15	40	63	100	0.4	80	38	63	65	65	65	1	0	0
IV	20123178	U053	PYC401	30	60	19	40	49	100	0.4	50	48	49	65	65	65	0	0	0
IV	20123178	U053	PYE401	27	60	22	40	49	100	0.4	45	55	49	65	65	65	0	0	0
IV	20123178	U053	PYSE401	24	60	21	40	45	100	0.4	40	53	45	65	65	65	0	0	0
IV	20123178	U053	PYSE402	21	60	24	40	45	100	0.4	35	60	45	65	65	65	0	0	0
IV	20123178	U053	PYL 401	40	60	14	40	54	100	0.4	67	35	54	65	65	65	1	0	0
IV	20123178	U053	PYL 402	45	60	14	40	59	100	0.4	75	35	59	65	65	65	1	0	0
IV	20123179	U053	PYC401	33	60	14	40	47	100	0.4	55	35	47	65	65	65	0	0	0

IV	20123179	U053	PYE401	19	60	22	40	41	100	0.4	32	55	41	65	65	65	0	0	0
IV	20123179	U053	PYSE401	26	60	18	40	44	100	0.4	43	45	44	65	65	65	0	0	0
IV	20123179	U053	PYSE402	15	60	20	40	35	100	0.4	25	50	35	65	65	65	0	0	0
IV	20123179	U053	PYL 401	40	60	14	40	54	100	0.4	67	35	54	65	65	65	1	0	0
IV	20123179	U053	PYL 402	42	60	14	40	56	100	0.4	70	35	56	65	65	65	1	0	0
IV	20123182	U053	PYC401	30	60	20	40	50	100	0.4	50	50	50	65	65	65	0	0	0
IV	20123182	U053	PYE401	28	60	16	40	44	100	0.4	47	40	44	65	65	65	0	0	0
IV	20123182	U053	PYSE401	30	60	20	40	50	100	0.4	50	50	50	65	65	65	0	0	0
IV	20123182	U053	PYSE402	11	60	26	40	37	100	0.4	18	65	37	65	65	65	0	1	0
IV	20123182	U053	PYL 401	52	60	16	40	68	100	0.4	87	40	68	65	65	65	1	0	1
IV	20123182	U053	PYL 402	50	60	14	40	64	100	0.4	83	35	64	65	65	65	1	0	0
IV	20123183	U053	PYC401	28	60	30	40	58	100	0.4	47	75	58	65	65	65	0	1	0
IV	20123183	U053	PYE401	23	60	31	40	54	100	0.4	38	78	54	65	65	65	0	1	0
IV	20123183	U053	PYSE401	28	60	28	40	56	100	0.4	47	70	56	65	65	65	0	1	0
IV	20123183	U053	PYSE402	24	60	24	40	48	100	0.4	40	60	48	65	65	65	0	0	0
IV	20123183	U053	PYL 401	50	60	23	40	73	100	0.4	83	58	73	65	65	65	1	0	1
IV	20123183	U053	PYL 402	45	60	21	40	66	100	0.4	75	53	66	65	65	65	1	0	1
IV	20123184	U053	PYC401	28	60	32	40	60	100	0.4	47	80	60	65	65	65	0	1	0
IV	20123184	U053	PYE401	27	60	25	40	52	100	0.4	45	63	52	65	65	65	0	0	0
IV	20123184	U053	PYSE401	27	60	30	40	57	100	0.4	45	75	57	65	65	65	0	1	0
IV	20123184	U053	PYSE402	29	60	26	40	55	100	0.4	48	65	55	65	65	65	0	1	0
IV	20123184	U053	PYL 401	53	60	37	40	90	100	0.4	88	93	90	65	65	65	1	1	1
IV	20123184	U053	PYL 402	52	60	26	40	78	100	0.4	87	65	78	65	65	65	1	1	1
IV	20123185	U053	PYC401	30	60	30	40	60	100	0.4	50	75	60	65	65	65	0	1	0
IV	20123185	U053	PYE401	29	60	27	40	56	100	0.4	48	68	56	65	65	65	0	1	0
IV	20123185	U053	PYSE401	35	60	34	40	69	100	0.4	58	85	69	65	65	65	0	1	1
IV	20123185	U053	PYSE402	33	60	30	40	63	100	0.4	55	75	63	65	65	65	0	1	0
IV	20123185	U053	PYL 401	50	60	26	40	76	100	0.4	83	65	76	65	65	65	1	1	1
IV	20123185	U053	PYL 402	51	60	23	40	74	100	0.4	85	58	74	65	65	65	1	0	1
IV	20123186	U053	PYC401	33	60	28	40	61	100	0.4	55	70	61	65	65	65	0	1	0
IV	20123186	U053	PYE401	22	60	33	40	55	100	0.4	37	83	55	65	65	65	0	1	0
IV	20123186	U053	PYSE401	25	60	31	40	56	100	0.4	42	78	56	65	65	65	0	1	0
IV	20123186	U053	PYSE402	20	60	24	40	44	100	0.4	33	60	44	65	65	65	0	0	0
IV	20123186	U053	PYL 401	50	60	25	40	75	100	0.4	83	63	75	65	65	65	1	0	1

IV	20123186	U053	PYL 402	43	60	23	40	66	100	0.4	72	58	66	65	65	65	1	0	1
IV	20123188	U053	PYC401	36	60	29	40	65	100	0.4	60	73	65	65	65	65	0	1	1
IV	20123188	U053	PYE401	32	60	21	40	53	100	0.4	53	53	53	65	65	65	0	0	0
IV	20123188	U053	PYSE401	38	60	24	40	62	100	0.4	63	60	62	65	65	65	0	0	0
IV	20123188	U053	PYSE402	20	60	24	40	44	100	0.4	33	60	44	65	65	65	0	0	0
IV	20123188	U053	PYL 401	46	60	19	40	65	100	0.4	77	48	65	65	65	65	1	0	1
IV	20123188	U053	PYL 402	41	60	18	40	59	100	0.4	68	45	59	65	65	65	1	0	0
IV	20123189	U053	PYC401	27	60	27	40	54	100	0.4	45	68	54	65	65	65	0	1	0
IV	20123189	U053	PYE401	23	60	28	40	51	100	0.4	38	70	51	65	65	65	0	1	0
IV	20123189	U053	PYSE401	17	60	27	40	44	100	0.4	28	68	44	65	65	65	0	1	0
IV	20123189	U053	PYSE402	13	60	22	40	35	100	0.4	22	55	35	65	65	65	0	0	0
IV	20123189	U053	PYL 401	45	60	23	40	68	100	0.4	75	58	68	65	65	65	1	0	1
IV	20123189	U053	PYL 402	40	60	15	40	55	100	0.4	67	38	55	65	65	65	1	0	0
IV	20123191	U053	PYC401	17	60	26	40	43	100	0.4	28	65	43	65	65	65	0	1	0
IV	20123191	U053	PYE401	18	60	18	40	36	100	0.4	30	45	36	65	65	65	0	0	0
IV	20123191	U053	PYSE401	17	60	22	40	39	100	0.4	28	55	39	65	65	65	0	0	0
IV	20123191	U053	PYSE402	17	60	18	40	35	100	0.4	28	45	35	65	65	65	0	0	0
IV	20123191	U053	PYL 401	36	60	16	40	52	100	0.4	60	40	52	65	65	65	0	0	0
IV	20123191	U053	PYL 402	35	60	14	40	49	100	0.4	58	35	49	65	65	65	0	0	0
IV	20123192	U053	PYC401	30	60	26	40	56	100	0.4	50	65	56	65	65	65	0	1	0
IV	20123192	U053	PYE401	25	60	21	40	46	100	0.4	42	53	46	65	65	65	0	0	0
IV	20123192	U053	PYSE401	27	60	17	40	44	100	0.4	45	43	44	65	65	65	0	0	0
IV	20123192	U053	PYSE402	16	60	19	40	35	100	0.4	27	48	35	65	65	65	0	0	0
IV	20123192	U053	PYL 401	37	60	16	40	53	100	0.4	62	40	53	65	65	65	0	0	0
IV	20123192	U053	PYL 402	40	60	17	40	57	100	0.4	67	43	57	65	65	65	1	0	0

Department of PG & Research in Physics & Electronics, Rani Durgavati University, Jabalpur (M.P.)

CO-PO Attainment M.Sc. Physics (Session: 2020-22)

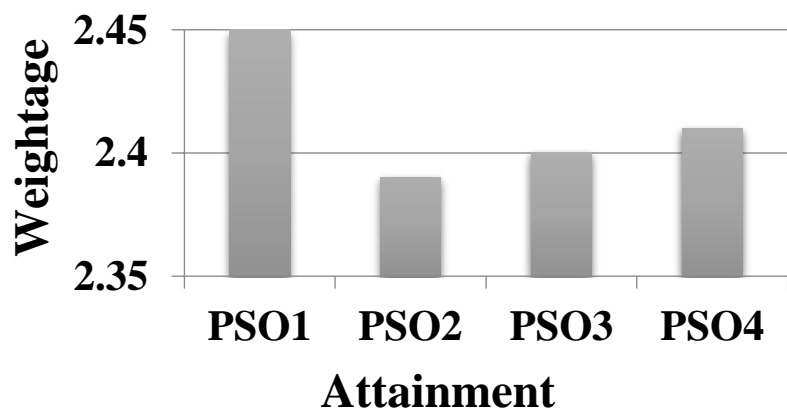
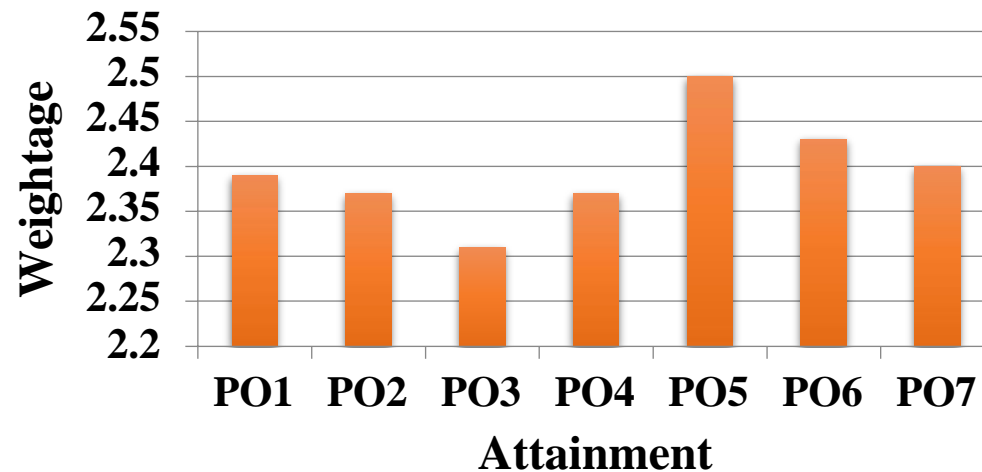
Level Satisfactory	1	50	% students scoring more than benchmark (X)
Level Moderate	2	60	% students scoring more than benchmark (X)
Level Substantial	3	70	% students scoring more than benchmark (X)
Bench Mark X	65		

Values		
SUBCODE	Count of ROLLNO	Sum of ESE >= X
PYC101	22	15
PYC102	22	22
PYC103	22	11
PYE101	22	22
PYL 104	22	18
PYL 105	22	19
PYC201	22	20
PYC202	22	21
PYC203	22	12
PYE201	22	21
PYL 204	22	18
PYL 205	22	19
PYC301	22	0
PYC302	22	0
PYSE301	22	1
PYSE302	22	0
PYL 301	22	17
PYL 302	22	17
PYC401	22	3
PYE401	22	0
PYSE401	22	2
PYSE402	22	0
PYL 401	22	19
PYL 402	22	17

% of students>X	direct attainment	indirect attainment	course attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
69	2.90	3.2	2.96	3	2	1.2	2	1.4	0	3	3	1.4	3	3	8.88	5.92	3.552	5.92	4.144	0	8.88	8.88	4.144	8.88	8.88
100	3.99	3.2	3.83	3	2	1.4	2	1.8	0	3	3	2	3	3	11.49	7.66	5.362	7.66	6.894	0	11.49	11.49	7.66	11.49	11.49
50	1.00	3.2	1.44	3	2	1.4	2.4	2.2	0	2	2	2	3	2.2	4.32	2.88	2.016	3.456	3.168	0	2.88	2.88	2.88	4.32	3.168
100	3.99	3.2	3.83	3	2	1	2	3	0	1.8	3	3	2	1.6	11.49	7.66	3.83	7.66	11.49	0	6.894	11.49	11.49	7.66	6.128
82	3.40	3.2	3.36	3	2.2	2.4	1.8	2.2	0	2.4	2.4	2.6	1.8	1.2	10.08	7.392	8.064	6.048	7.392	0	8.064	8.064	8.736	6.048	4.032
87	3.56	3.2	3.49	3	1.6	2	2	1	0	2.2	2	2	1.8	1.4	10.47	5.584	6.98	6.98	3.49	0	7.678	6.98	6.98	6.282	4.886
91	3.69	3.2	3.59	3	1.6	2.4	1.6	1.6	0	2	3	2	3	2	10.77	5.744	8.616	5.744	5.744	0	7.18	10.77	7.18	10.77	7.18
96	3.86	3.2	3.73	2.8	2.4	2.4	2.2	1.6	0	3	1.8	2.2	3	2.6	10.44	8.952	8.952	8.206	5.968	0	11.19	6.714	8.206	11.19	9.698
55	1.50	3.2	1.84	3	2.2	2.2	2.2	1.4	0	2.4	2.2	2.4	2	2.2	5.52	4.048	4.048	4.048	2.576	0	4.416	4.048	4.416	3.68	4.048
96	3.86	3.2	3.73	3	2	2.4	2	2	1	2.6	3	2	2.6	2	11.19	7.46	8.952	7.46	7.46	3.73	9.698	11.19	7.46	9.698	7.46
82	3.40	3.2	3.36	3	2	2	2.6	1	1	3	3	2	2.4	2	10.08	6.72	6.72	8.736	3.36	3.36	10.08	10.08	6.72	8.064	6.72
87	3.56	3.2	3.49	3	2	2	2.6	1	2.4	2	3	2	2.6	2.6	10.47	6.98	6.98	9.074	3.49	8.376	6.98	10.47	6.98	9.074	9.074
0	0.00	3.2	0.64	3	2	1.6	1.8	2	0	1.8	3	2	2.4	2	1.92	1.28	1.024	1.152	1.28	0	1.152	1.92	1.28	1.536	1.28
0	0.00	3.2	0.64	3	2	3	2	0	0	2.8	3	3	2.4	2	1.92	1.28	1.92	1.28	0	0	1.792	1.92	1.92	1.536	1.28
5	0.10	3.2	0.72	3	2.4	2.8	2.4	2.4	1	2.6	2.4	2.6	2	2.2	2.16	1.728	2.016	1.728	1.728	0.72	1.872	1.728	1.872	1.44	1.584
0	0.00	3.2	0.64	3	2.4	2.6	2	1	0	2.8	2.2	2.2	2.2	2	1.92	1.536	1.664	1.28	0.64	0	1.792	1.408	1.408	1.408	1.28
78	3.26	3.2	3.25	3	2	2.6	1.8	2	1	2.6	2.2	2.6	2	2	9.75	6.5	8.45	5.85	6.5	3.25	8.45	7.15	8.45	6.5	6.5
78	3.26	3.2	3.25	3	2.2	2.6	2	1.2	0	2.2	2.2	2.4	2	2.2	9.75	7.15	8.45	6.5	3.9	0	7.15	7.15	7.8	6.5	7.15
14	0.28	3.2	0.86	3	2	2.6	2.2	2	1	2.4	2.4	2	2.6	2	2.58	1.72	2.236	1.892	1.72	0.86	2.064	2.064	1.72	2.236	1.72
0	0.00	3.2	0.64	3	2	2.4	2.2	1.6	1	2.4	2.2	2	2.4	2	1.92	1.28	1.536	1.408	1.024	0.64	1.536	1.408	1.28	1.536	1.28
10	0.20	3.2	0.80	3	2.2	2	2	1	1	2.6	2.2	2	2.6	2.2	2.4	1.76	1.6	1.6	0.8	0.8	2.08	1.76	1.6	2.08	1.76
0	0.00	3.2	0.64	3	2.2	2	2.6	1	0	2.2	2.2	2.4	2.2	2.4	1.92	1.408	1.28	1.664	0.64	0	1.408	1.408	1.536	1.408	1.536
87	3.56	3.2	3.49	3	2.2	2	2.4	2	1	2.2	2.4	2.6	2.2	2.2	10.47	7.678	6.98	8.376	6.98	3.49	7.678	8.376	9.074	7.678	7.678
78	3.26	3.2	3.25	3	2.6	2	2.2	1	0	2.4	2.6	2.2	2	2.8	9.75	8.45	6.5	7.15	3.25	0	7.8	8.45	7.15	6.5	9.1
				71.8	50.2	51	51	37.4	10.4	58.4	60.4	53.6	57.2	51.8	2.39	2.37	2.31	2.37	2.50	2.43	2.40	2.45	2.39	2.40	2.41

Bloom Summary of M.Sc. (Physics) (2020-2022)

<u>Parameters</u>			
Level Satisfactory	1	50	% students scoring more than benchmark (X)
Level Moderate	2	60	% students scoring more than benchmark (X)
Level Substantial	3	70	% students scoring more than benchmark (X)
Bench Mark (X) - 65%			



PO's	Attainment	PSO's	Attainment
PO1	2.39	PSO1	2.45
PO2	2.37	PSO2	2.39
PO3	2.31	PSO3	2.40
PO4	2.37	PSO4	2.41
PO5	2.50		
PO6	2.43		
PO7	2.40		

Conclusions : All Programme Objective outcomes, Programme Specific Objective outcomes and Course Objective outcomes were attained with 65% of Benchmark for the Session 2020-2022

Mapping & Attainment of POs with COs

2. Master of Arts in Political Science (M.A. in Political Science)

PROGRAMME OBJECTIVES

- PO-1.** Critical Thinking: Identifying the assumptions that frame our actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- PO-2.** Effective Communication: Read, Write, Speak and listen clearly in English and Hindi (Bilingual).
- PO-3.** Social Interaction: Provide a social exchange between two or more individuals.
- PO-4.** Effective Citizenship: Demonstrate social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- PO-5.** Ethics: Recognize different value and moral systems and correlate them with present system.
- PO-6.** Environment & Sustainability: To understand the responsibility to conserve natural resources and protect global ecosystems to support health & wellbeing.
- PO-7.** Self-Directed & Life-long learning: It focuses on the process by which students take control of their own learning, in particular how they set their own learning goals, locate appropriate resources, decide on which learning methods to use and evaluate their progress.

PROGRAMME SPECIFIC OUTCOMES

- PSO-1.** The Department is dedicated to promote teaching and research in diverse fields of political science including Indian politics, comparative politics, international relations and human rights.
- PSO-2.** To develop comprehensive understanding of the subject. It is done by teaching both conventional and new areas of relevance in the domain of political theory and philosophy, Indian politics, comparative politics, public administration and international politics.
- PSO-3.** To develop comprehensive and interdisciplinary knowledge by emphasizing inter-linkages between various political, economic and social issues and challenges. Papers like Human Rights, Political Ideas in Modern India and Politics in India cater education on the issues related to it and generate socially-informed knowledge.
- PSO-4.** To motivate and inform students about the opportunities and future prospects in the field.

Semester 1

Paper 1. (MA 034) Modern Indian Political Thought

- CO-1. Tracing the evolution of Indian political thought from ancient India to modern India.
- CO-2. Analyzing the nationalist thought of Raja Rammohan Roy, Vivekananda and Tagore.
- CO-3. Discussing the nationalism of Gandhi, M. N. Roy, Narendra Dev and Syed Ahmed Khan.
- CO-4. Discuss the political thinking of Ram Manohar Lohia, Jai Prakash Narayan and BR Ambedkar.
- CO-5. Analyzing the nationalist thought of Arbindo Ghosh, M.N. Roy & Dindayal Upadhyay.

Paper 2. (MA 035) Comparative Government

- CO-1. Discuss the theory and apply the methodology of comparative analysis within the discipline of political science.
- CO-2. Tracing the evolution of Comparative Politics as a discipline and drawing a distinction between Comparative Politics and Comparative Government.
- CO-3. Investigating the nature and scope of Comparative Politics.
- CO-4. Analyzing the approaches, the approaches and models of comparison: systems analysis; structural functionalism; and institutional approach
- CO-5. Write an analysis of the institutions, political behavior and political ideas of another country comparing these attributes to the U.S. model.

Paper 3. (MA 036) International Politics & Contemporary Political Issues

- CO-1. Identify the basic structures of the contemporary international system; and the key actors, institutions and their functions.
- CO-2. Demonstrate an understanding the importance of empirical evidence in analysing international problems.
- CO-3. Discuss the main international relations theories, and the values implicit in each of these different ways of looking at the world, thus giving them the tools necessary to understand the day-to-day events reported in the media.
- CO-4. Analyse articles of varying complexity on international topics.
- CO-5. Studying the role of Diplomacy, Propaganda and Military capabilities in the making of foreign policy.

Paper 4. (MA 037) Major Ideas and Issues of Public Administration

- CO-1. Analysing the major Concepts in Public Administration.
- CO-2. Tracing the Challenges in the discipline of Public Administration like New Public Administration (NPA); Comparative Public Administration (CPA) and Development Administration.
- CO-3. Discussing the Ecological approach to Pub. Adm.
- CO-4. Analysing the Administrative Processes: decision making; communication and control; leadership; co-ordination.
- CO-5. Discussing Weberian and Marxian theories of bureaucracy.

Semester II

Paper 1. (MA 038) Western Political Thought

- CO-1.** Providing an insight into the dominant features of Ancient Western Political Thought: Ancient Greek political thought with focus on Aristotle and Plato; Roman Political Thought: its contributions with special emphasis on the emergence of Roman law.
- CO-2.** Examining the features of Medieval Political Thought.
- CO-3.** Evaluating the Renaissance; political thought of Reformation; and Machiavelli.
- CO-4.** Critically examining Bodin's contributions to the theory of Sovereignty; Hobbes as the founder of the science of materialist politics; Locke as the founder of Liberalism with focus on his views on natural rights, property and consent; and Rousseau's views on Freedom and Democracy; Bentham's Utilitarianism; and John Stuart Mill's views on liberty and representative government.
- CO-5.** Taking an insight into the following: Hegel's views on Civil Society and State; Utopian and Scientific socialism: basic characteristics.

Paper 2. (MA 039) Politics of South Asian Countries

- CO-1.** Understand the seven countries of the region.
- CO-2.** Analyse legislatures of South Asian Countries – India, Pakistan, Bangladesh, Sri Lanka, Maldives, Afghanistan, Nepal, Bhutan.
- CO-3.** Critically examining status of democracy in South Asian nations.
- CO-4.** Evaluating the relations between South Asian Nations.
- CO-5.** To analyse the relation of India with the above mention countries.

Paper 3. (MA 040) International Organisation

- CO-1.** Describe theoretical approaches to understanding international cooperation.
- CO-2.** Apply these theories to specific behaviours in the international system to evaluate their validity.
- CO-3.** Describe the functions and politics of the United Nations Security Council and General Assembly.
- CO-4.** Outline the range of functions performed by various international organizations.
- CO-5.** To evaluate UN's role in Disarmament & contribution of Third worlds to Achieve goal of U.N.

Paper 4. (MA 041) Research Methodology

- CO-1.** Use advanced methods of political science analysis.
- CO-2.** Complete a major research project with limited guidance.
- CO-3.** Report on a topic of political science research.
- CO-4.** Research issues of politics and policy using appropriate research design and quantitative and/or qualitative research methods.
- CO-5.** Analyse policy alternatives and recommend policy solutions.

Paper 1. (MA 042) Government and Politics of India

- CO-1. Background of the Indian Constitution, federal features, judicial review, parliamentary supremacy, concept of basic structure.
- CO-2. To understand Judiciary & Bureaucracy of India.
- CO-3. To understand biggest Democracy of the World.
- CO-4. Know the Ministries, their role & responsibilities & also know the roles & responsibilities of Members of Parliament/ State Assemblies.
- CO-5. Know the process of drafting & presenting a Bill in the Parliament / Assemblies.

Paper 2. (MA 043) International Law

- CO-1. Explain how international law varies from national legal systems.
- CO-2. Demonstrate knowledge of how international law has developed in specific issue areas.
- CO-3. Show the relevance of international law to current political and social developments at the international and national levels
- CO-4. Introduction to international law relating to treaties, and to the use of force, and the relevance of the topics to current events.
- CO-5. Understand the laws of air warfare.

Paper 3. (MA 044) Major Powers and Indian Foreign Policy

- CO-1. Describe theories of comparative foreign policy.
- CO-2. Demonstrate the utility of theoretical approaches by applying to current events. Discriminate among cases in terms of which theories apply and under what conditions.
- CO-3. Know about the foreign policy challenges faced by a range of states around the world.
- CO-4. Compare the making of foreign policy in different issue areas such as national security policy, foreign economic policy, human rights policy, environmental policy, and the fight against terrorism.
- CO-5. Integrate theoretical perspectives to consider innovative ways of explaining foreign policy behaviour.

Paper 4. (MA ELP01) Twentieth Century World

- CO-1. The Course introduces student about the historical aspect of Twentieth Century World and its legacy.
- CO-2. The political theories namely, Socialism, Syndicalism and Historical Materialism are introduced to the students
- CO-3. Describe World War I and II and its origin.
- CO-4. Various aspects of Russian Revolution and their results are discussed.
- CO-5. Understand of reason of Second world war and its impact

Paper 5. (MA ELP02) Principals of Public Administration

- CO-1. Demonstrate broad understanding of public affairs, policy development,
- CO-2. Policy analysis, economic analysis, management skills.
- CO-3. Organization theory and their applications to public service.
- CO-4. Apply critical thinking and appropriate technology for public policy analysis.
- CO-5. The working of local self-governments in our political system

Paper 6. (MA ELP03) Leadership Management & Personnel Management

- CO-1. To develop and acquire the knowledge, perspectives and skills to recognize issues in bureaucracy.
- CO-2. Understand the correlation between recruitment, promotion, training and career development.
- CO-3. To learn about the applications of administrative reforms and importance of administrative tribunals.
- CO-4. To know the importance of Administrative.
- CO-5. To understand the concept of Leadership, Authority and its influence.

Paper 7. (MA ELP04) Financial Administration

- CO-1. Demonstrate an understanding of the overall role and importance of the finance function.
- CO-2. Understanding of the concept of budget.
- CO-3. Identification of Audit and accounts system in India.

Paper 8. (MA ELP05) Human Rights

- CO-1. Understand the historical growth of the idea of Human rights.
- CO-2. Identify and evaluate the historical, philosophical, political and cultural developments establishing human rights as a set of global norms, agreements, and procedures.
- CO-3. Explore global human rights institutions, law, and processes, and assess the impact of their interaction with national and local cultural practices and norms.

Semester IV

Paper 1. (MA 046) Politics of M.P

- CO-1. To analyse the working of state executive.
- CO-2. To understand the working of state legislature.
- CO-3. To study the role of judiciary.
- CO-4. Explain the role of Governor in state administration & describe the powers & functions of Chief Minister in relation with council of ministers.
- CO-5. Analyse the role of council of ministers, various constitutional authorities and constitutional commission.

Paper 2. (MA 047) Western Political Theory

- CO-1. Analysing what is Politics and explaining the approaches to the Study of Political Science – Normative, Behavioural, Post Behavioural, Feminist
- CO-2. Assessing empirical Political Theory: System's Analysis, Structural Functionalism.
- CO-3. Explaining Dialectical Materialism and Historical Materialism with special reference to relationship between base and superstructure.
- CO-4. Explaining the theories of Nationalism, Internationalism and fascism.

Paper 3. (MA 048) Diplomacy and Human Rights

- CO-1. Understand the role of modern diplomacy in foreign policy.
- CO-2. Know the qualities of a good diplomat, know the key characteristics of Global Diplomacy & the nature of bargaining “power” in international politics;
- CO-3. Know basic game theoretic and rational choice accounts of negotiation & theory of conflict and conflict diplomacy;
- CO-4. The course enables students to develop a theoretical understanding of the concept of Human Rights & It gives a historical and global perspective on human rights.
- CO-5. Assessing contains a detailed institutional framework set up to deal with human rights violations.

Paper 4. (MA ELP01) Twentieth Century World

- CO-1. Understand Post World War situation globally.
- CO-2. Evaluate regional strategic organisations.
- CO-3. Assessment of global crisis.
- CO-4. Understand the development of science and technology.

Paper 5. (MA ELP02) Development administration and local self-government

- CO-1. Explore the concept of development administration and the significance.

- CO-2. Understand the contribution of Prismatic model in public administration.
- CO-3. Understand evolution and importance of local self-government.
- CO-4. Assessing the constitutional amendment related to local self-government.

Paper 6. (MA ELP03) Indian Administration

- CO-1. Knowing about the evolution of Indian Administration
- CO-2. Assessment of Public Services, All Indian Services, Central Services, Public Service Commission, Training of civil services.
- CO-3. Knowledge of State Administration Understanding welfare administration, administrative machinery of Lokpal and Lokayukats.

Paper 7. (MA ELP04) Leadership and Development

- CO-1. Synthesizing the approach related to leadership and the development.
- CO-2. Understand various modes of development and the concept of leadership.
- CO-3. Critically examine moral ethics in administration and leadership.
- CO-4. Assessment of contemporary issues and understanding foreign direct investment.

Paper 8. (MA ELP05) Reforms and Development in M.P

- CO-1. Understanding of the reforms in administration will enable the student to assess the development in MP.
- CO-2. Examining of the situation related to the development of the state.
- CO-3. Knowledge of foreign investment and the role of multinational companies in the development of the state.
- CO-4. Understand the Leadership and ethics with special reference to development.
- CO-5. Know about the Foreign Direct Investment, GLP and Environmental development.

Paper 9. (MA ELP06) Ethics, values and administration

- CO-1. Learn ethical values, conscience, moral dilemmas.
- CO-2. Learn and understand the philosophical thoughts of various Indian thinkers and reformers.
- CO-3. Understand and define the concepts of integrity and ethics
- CO-4. Identify ethical dilemmas and apply different theoretical approaches
- CO-5. A value is one of our most important and enduring beliefs, whether that be about a thing or a behaviour. Understand the implementation of higher values in governance.

RANI DURGA VATI VISHWA VIDYALAYA

DEPARTMENT OF POLITICAL SCIENCE

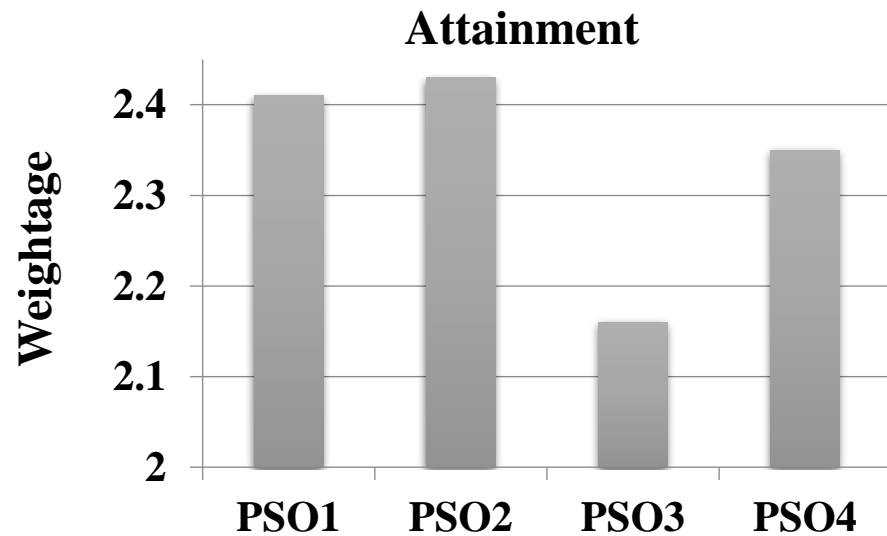
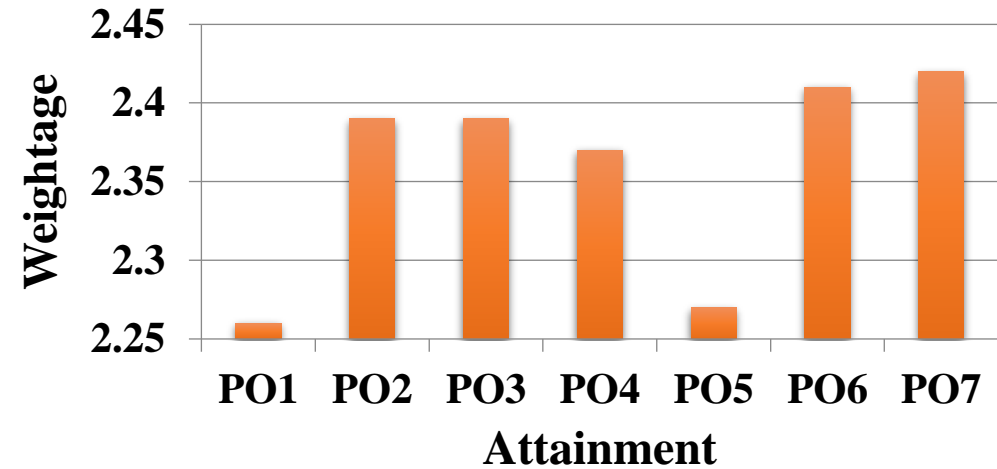
Level Satisfactor 1 50 % students scoring more than benchmark (X)
 Level Moderate 2 60 % students scoring more than benchmark (X)
 Level Substantia 3 70 % students scoring more than benchmark (X)
 Bench Mark X 65

Values		
SUBCODE	ROLLNO	Sum of Count of ESE >= X

SUBCODE	ROLLNO	X	% of students > X	direct attainment	indirect attainment	course attainment	PO				PSO				Average													
							PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
PSC101	46	20	44	0.88	3.2	1.34	3	2	3	3	3	1	3	1	1	3	3	4.02	2.68	4.02	4.02	4.02	1.34	4.02	1.34	1.34	4.02	4.02
PSC102	46	20	44	0.88	3.2	1.34	3	1	2	2.2	3	1	1.8	3	1.6	3	2	4.02	1.34	2.68	2.948	4.02	1.34	2.412	4.02	2.144	4.02	2.68
PSC103	46	35	77	3.23	3.2	3.22	3	2.4	2.2	1.4	2.4	1.6	2.6	2.6	1	2.4	2.6	9.66	7.73	7.08	4.508	7.728	5.152	8.372	8.372	3.22	7.728	8.37
PSC104	46	35	77	3.23	3.2	3.22	3	2.2	2.6	2.2	2.6	1	2	3	3	1	1.6	9.66	7.08	8.37	7.084	8.372	3.22	6.44	9.66	9.66	3.22	5.15
PSC201	46	25	55	1.50	3.2	1.84	3	1.6	2.4	2	3	1	3	1	1	2.8	2.2	5.52	2.94	4.42	3.68	5.52	1.84	5.52	1.84	1.84	5.152	4.05
PSC202	46	23	50	1.00	3.2	1.44	3	3	2	1.4	2	1	1	2	2	1	2	4.32	4.32	2.88	2.016	2.88	1.44	1.44	2.88	2.88	1.44	2.88
PSC203	46	27	59	1.90	3.2	2.16	2.8	2	1.2	2.4	1.4	1.8	2	3	2	2.6	3	6.05	4.32	2.59	5.184	3.024	3.888	4.32	6.48	4.32	5.616	6.48
PSC204	46	40	87	3.56	3.2	3.49	3	3	3	2	2.8	1	3	3	2	2.6	2.6	10.5	10.5	10.5	6.98	9.772	3.49	10.47	10.47	6.98	9.074	9.07
PSC301	46	46	100	3.99	3.2	3.83	2.4	1.6	2.8	2.8	3	1	2.8	3	2.8	1	2.2	9.19	6.13	10.7	10.72	11.49	3.83	10.72	11.49	10.72	3.83	8.43
PSC302	46	46	100	3.99	3.2	3.83	1.8	2.2	1	2	1	1.8	2	2	1.8	1	3	6.89	8.43	3.83	7.66	3.83	6.894	7.66	7.66	6.894	3.83	11.5
PSC303	46	17	37	0.74	3.2	1.23	2	2.6	1.8	1.8	3	1.8	1.4	3	2.4	2.2	3	2.46	3.2	2.21	2.214	3.69	2.214	1.722	3.69	2.952	2.706	3.69
PSC304	46	21	46	0.92	3.2	1.38	3	1.6	1.6	2	2.4	1.4	2	2.4	2.4	2.8	2.2	4.14	2.21	2.21	2.76	3.312	1.932	2.76	3.312	3.312	3.864	3.04
PSC401	46	13	29	0.58	3.2	1.10	3	2.6	2	3	2.2	1	2.4	2.2	2.4	1.8	2.4	3.3	2.86	2.2	3.3	2.42	1.1	2.64	2.42	2.64	1.98	2.64
PSC402	46	8	18	0.36	3.2	0.93	3	1.6	1	1.4	3	1	2.6	2.6	1.2	2.8	2	2.79	1.49	0.93	1.302	2.79	0.93	2.418	2.418	1.116	2.604	1.86
PSC403	46	33	72	3.07	3.2	3.10	2.6	2.8	2.2	2	2.6	1.8	2.2	2.6	2.2	2	2.2	8.06	8.68	6.82	6.2	8.06	5.58	6.82	8.06	6.82	6.2	6.82
PSC404	46	46	100	3.99	3.2	3.83	2.2	2.2	1.6	3	2.6	1.4	2.8	2.6	2.2	2.2	2.6	8.43	8.43	6.13	11.49	9.958	5.362	10.72	9.958	8.426	8.426	9.96
							44	34	32	35	40	21	37	39	31	34.2	38.6	2.26	2.39	2.39	2.37	2.27	2.41	2.42	2.41	2.43	2.16	2.35

Bloom Summary of M.A. (Political Science) (2020-2022)

<u>Parameters</u>			
Level Satisfactory	1	50	% students scoring more than benchmark (X)
Level Moderate	2	60	% students scoring more than benchmark (X)
Level Substantial	3	70	% students scoring more than benchmark (X)
Bench Mark (X) - 65%			



PO's	Attainment	PSO's	Attainment
PO1	2.26	PSO1	2.41
PO2	2.39	PSO2	2.43
PO3	2.39	PSO3	2.16
PO4	2.37	PSO4	2.35
PO5	2.27		
PO6	2.41		
PO7	2.42		

Conclusions : All Programme Objective outcomes, Programme Specific Objective outcomes and Course Objective outcomes were attained with 65% of Benchmark for the Session 2020-2022

Mapping & Attainment of POs with COs

3. Master of Arts in Philosophy (M.A. Philosophy)

PROGRAMME OUTCOMES

PO-1. Critical Thinking: Identifying the assumptions that frame our actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO-2. Effective Communication: Read, Write, Speak and listen clearly in English and Hindi (Bilingual).

PO-3. Social Interaction: Provide a social exchange between two or more individuals.

PO-4. Effective Citizenship: Demonstrate social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO-5. Ethics: Recognize different value and moral systems and correlate them with present system.

PO-6. Environment & Sustainability: To understand the responsibility to conserve natural resources and protect global ecosystems to support health & wellbeing.

PO-7. Self-Directed & Life-long learning: It focuses on the process by which students take control of their own learning, in particular how they set their own learning goals, locate appropriate resources, decide on which learning methods to use and evaluate their progress.

PROGRAMME SPECIFIC OUTCOMES

PSO-1. This course traces the origins of philosophy in the Western tradition in the thinkers of Ancient Greece.

PSO-2. The aim is to make students familiar with and develop a clear understanding of the major concepts such as the Shruti and Smriti, Karma, Jnana and Bhakti in different systems, Idealism and Materialism, and Preyas, Shreyas and Nihshreyas in Kathopanishads etc within Indian Philosophical studies.

PSO-3. Acquainting students with the complex set of interconnected sub-traditions that Analytic Philosophy ramified into and which became equally influential in the twentieth century.

PSO-4. To develop student's abilities to understand and examine in detail the key arguments in Philosophy of Mind.

Paper Title: DSCC- 1 Indian Epistemology

Course Outcomes

CO-1. This course facilitates a comprehension of early Greek tradition. A comprehensive understanding of it is like a foundation course in the Classics.

CO-2. The two great classical traditions, viz., Greek and Indian have left a rich legacy of philosophic knowledge that can be pragmatically and scholastically contextualized in the present-day times.

CO-3. Students of University read Indian Philosophy; this course in Greek Philosophy complements it fairly well for understanding of the classics.

CO-4. To participate framework to critically and creatively look at the dialogical and pluralistic epistemological traditions within the mosaic of what is called the Indian Philosophical Textual Depository.

CO-5. The primary focus will be on the three sources of knowledge and cognitive activity: perception, inference and verbal testimony.

Paper Title: DSCC- 2 Western Epistemology

Course Outcomes

CO-1. Formal logic enhances the reasoning skills and develops ground for rejecting the wrong arguments on the basis of sound inferences.

CO-2. It creates ground for eliminating superstitious beliefs and creates ways for strong arguments.

CO-3. This paper helps in good score that provides better rank in form of results.

CO-4. It trains the student to construct good arguments and also provides valid ground to reject the wrong ones.

CO-5. To discuss the counter position of Sophists and Socrates. Finally, there is discussion on Plato's theory of virtue and Forms.

Paper Title: DSCC- 3 Modern Logic

Course Outcomes

CO-1. To equip the students with tools and techniques for handling socio political issues that affect them on individual / collective basis.

CO-2. Larger awareness of public issues and empathy with marginalized issues in society.

CO-3. Inculcates a sense of ethical responsibility and a vision to challenge the existing norms in need of change.

CO-4. Study of Informal fallacies enables the students to understand the flaws in the arguments which we use in our day-to-day life.

CO-5. Identifying informal fallacies is very important nowadays to preserve one's intellectual sanctity in an increasingly media saturated world.

Paper Title: DSCC- 4 Indian Ethics

Course Outcomes

CO-1. To introduce yoga education, its principles and practices for holistic growth of students

CO-2. To create yoga experts with in-depth knowledge based on yogic texts.

CO-3. To establish holistic health, social harmony and world peace by training them to be good citizens who can offer social wellbeing.

CO-4. To equip the students with tools and techniques for handling socio political issues that affect them on individual / collective basis.

CO-5. Inculcates a sense of ethical responsibility and a vision to challenge the existing norms in need of change.

Paper Title: DSEC-1 Introduction to Philosophy & Yoga

Course Outcomes

CO-1. Indian Intellectual Traditions through basic concepts such as Shruti (agama) and Smriti(Nigama), Karma, Jnana and Bhakti, Indian Idealism vs. Indian Materialism, Preyas, Shreyas and Nihshreyasetc

CO-2. Students will appreciate the Indian Metaphysics of various ancient Indian schools such as Charvaka, Buddhism, Jainism, Samkhya, Mimamsa and Vedanta. They will become aware of the Metaphysics of various schools which will help them to understand the society at large.

CO-3. In the unit III, students will gain familiarity with the epistemology of Jaina and Nyaya -Vaisheshika system. Unit II and Unit III are interrelated in the sense that epistemology of a particular school can be understood through its metaphysics and vice-versa.

CO-4. Students will learn to develop scientific, logical and rational inquiry for understanding the systems. Students will be able to do a comparative analysis of all systems which will further enhance their debating skills. Students will develop the ability to think critically and to read and analyze scientific literature.

CO-5. Students will develop strong oral and written communication skills through the effective presentation of Projects, Quiz as well as through Seminars

Paper Title: DSCC-5 Indian Metaphysics

Course Outcomes

CO-1. it will enable students to witness how philosophers who were either predecessors or contemporaries evaluated the theories of others, thus will advise them in distinguishing good arguments from badarguments.

CO-2. It will enable students to have a better understanding of how a man thinks and what goes on into the making of human thought.

CO-3. It will also make students aware that there is no place for superficial approach to the complex questions in life.

CO-4. Students will learn to develop scientific, logical and rational inquiry for understanding the systems. Students will be able to do a comparative analysis of all systems which will further enhance their debating skills. Students will develop the ability to think critically and to read and analyze scientific literature

CO-5. Students will develop strong oral and written communication skills through the effective presentation of Projects, Quiz as well as through Seminars.

Paper Title: DSCC-6 Western Metaphysics

Course Outcomes

CO-1. This course helps in learning the various principles and methods of basic as well as higher logic.

CO-2. Through the development of its special symbols, this course (advanced logic) helps as an instrument for analysis and deduction.

CO-3. It helps in examining more complex arguments for deriving clear rational conclusions.

CO-4. This paper helps in good score that provides better rank in form of results.

CO-5. This is an appropriate paper for applying the logical/mathematical skill and to make use of artificial intelligence effectively.

Paper Title: DSCC-7 Modern Logic

Course Outcomes

CO-1. The students after having run through basic ethical theories gain a better orientation from the ethical perspective.

CO-2. This course helps to understand and interpret events with a more rational basis.

CO-3. Through the development of its special symbols, this course (advanced logic) helps as an instrument for analysis and deduction.

CO-4. It helps in examining more complex arguments for deriving clear rational conclusions.

CO-5. Enhance the logical/mathematical skill and to make use of artificial intelligence effectively.

Paper Title: DSCC-8 Western Ethics

Course Outcomes

On completion of this course, the students will have

CO-1. Critical understanding of the Evolution of Yoga based on the classical texts

CO-2. Understanding the basic theories and practices of Shad-Darshan.

CO-3. Knowledge of the concepts of Jnana, Bhakti and karma Yoga.

CO-4. Understanding of different Schools of Yoga.

CO-5. The students after having run through basic ethical theories gain a better orientation from the ethical perspective.

Paper Title: DSEC-2 Yoga Philosophy

Course Outcomes

CO-1. Critical understanding of the Evolution of Yoga based on the classical texts

CO-2. Understanding the basic theories and practices of Shad-Darshan.

CO-3. Knowledge of the concepts of Jnana, Bhakti and karma Yoga.

CO-4. Understanding of different Schools of Yoga.

CO-5. Learn the different Aasan, Pranyam, Bandh, Mudra, Kriya & Dhyaan

SEMESTER III

Paper Title: DSCC-9 Contemporary Western Philosophy

Course Outcomes

The course in Contemporary Western Philosophy is designed keeping in view the following learning outcomes

- CO-1.** Introducing students to the primary thinkers of one of the most important and influential school of thought in Western Philosophy.
- CO-2.** Acquainting students with the complex set of interconnected sub-traditions that Analytic Philosophy ramified into and which became equally influential in the twentieth century.
- CO-3.** Inculcating young minds with the basic training associated with the tradition, such that it is prepared to engage in critical and reflective thinking.
- CO-4.** Enabling students to reduce complex issues into simpler components that will facilitate clearer understanding.
- CO-5.** Enabling students to reduce complex issues into simpler components that will facilitate clearer understanding

Paper Title: DSCC-10 Modern Indian Thought

Course Outcomes

- CO-1.** To make students a better citizen.
- CO-2.** To know rights of Individuals and communities.
- CO-3.** To learn to live in cohesive manner in a multicultural setup.
- CO-4.** This paper intends to acquaint the students with the philosophical problems from the perspective of contemporary Indian Philosophers.

Paper Title: DSCC-11 Philosophy of Religion

Course Outcomes

- CO-1.** The students will acquire a general understanding of religious issues.
- CO-2.** They will learn to think critically about religious issues.
- CO-3.** To familiarize the students with basic concepts of religion and its philosophical significance.
- CO-4.** To develop a wider vision for contemporary issues in religion.

Paper Title: DSCC-12 Advaita Vedanta (a)

Course Outcomes

- CO-1.** The students will acquire a general understanding of religious issues.
- CO-2.** They will learn to think critically about religious issues.

CO-3. Exposure to various Indian Philosophical texts.

CO-4. To get familiarize about Tarkapada, Refutation of Sankhya Concept, Refutation of Nyaya Vaisesika Concept

CO-5. To develop the concepts of Refutation of Vigyanvada & Refutation of Jainism

Paper Title: DSEC- 3 Applied Ethics

Course Outcomes

CO-1. It will give a holistic development of their personality.

CO-2. This course is designed to make students philosophically competent about their own decisions, to achieve clarity, develop comprehension skills and reach precision in arguments with reasons.

CO-3. It will enhance the theoretical tools of ethics in life situations as well as devise ethical resolutions in moral dilemmas as they come up.

CO-4. This will gradually generate an ethical acumen amongst the students of philosophy.

CO-5. A spectrum of issues ranging from morality, environment, real life situations, moral dilemmas and ongoing philosophical examination of the crisis in the field of artificial intelligence are a part of this course curriculum.

Paper Title: DSCC-13 Contemporary Western Philosophy
Course Outcomes

CO-1. The idea is to encourage the students towards a comparative trajectory where they probe the similarities and differences between the Western and non-Western stands of thought. Hence, one of the key learning outcomes would be and should be to develop comparative skills.

CO-2. Most Western philosophers were also the patriarch of modern statecraft. They imbued moral and ethical considerations quite heavily in their philosophical teachings. Thus, by focusing on individual philosophical thought from original texts, the students would be capable of differentiating between positive and normative worldview.

CO-3. Since Philosophy, whether Western or Oriental, is all about values and rational thinking, the students would develop skills to place any public issue on the edifice of ethical foundations and provide moral weightage to their arguments.

CO-4. An overview of the most important directions within the philosophy of mind in the 20th century.

CO-5. A cognizance how concepts involve the role of sensory, motor, affective experiences and are thus embodied.

Paper Title: DSCC-14 Modern Indian Thought
Course Outcomes

CO-1. To make students a better citizen.

CO-2. To know rights of Individuals and communities.

CO-3. To learn to live in cohesive manner in a multicultural setup

CO-4. To acquaint the students with the philosophical problems from the perspective of contemporary Indian Philosophers.

Paper Title: DSCC-15 Philosophy of Religion
Course Outcomes

CO-1. The students will acquire a general understanding of religious issues.

CO-2. They will learn to think critically about philosophical issues pertaining to various religions.

CO-3. To familiarize the students with basic concepts of religion and its philosophical significance.

CO-4. To develop a wider vision for contemporary issues in religion.

Paper Title: DSCC-16 Advaita Vedanta (b)
Course Outcomes

CO-1. It will give a holistic development of their personality.

CO-2. Exposure to various Indian Philosophical texts.

CO-3. To familiarize the concept of Bhamti and Vivarana Tradition, Avachedavada & Pratibimbavada

CO-4. To understand the Avidya and Maya, Ekatva and Anekatva of Avidya, Ashraya and Vishaya of Avidya

CO-5. To learn the concept of Shankaracharya- Characteristics and Nature of Liberation, Means of Liberation, Shravan Manan and Nididhyasan.

Paper Title: DSEC-4 Geetadarshan

Course Outcomes

CO-1. This course helps to understand and interpret events with a more rational basis.

CO-2. To help them achieve clarity and creative approach in a given situation.

CO-3. The students will learn about Yoga According to Geeta, Synthesis of Pravritti & Nivritti

CO-4. Enable to know about the Geeta by the Philosophers, Tilak, & Gandhi

CO-5. To familiarize the Philosophy of Shri Aurobindo, Dr. Radhakrishnan, Dr. Anni Besant

Department of PG & Research in Philosophy, Rani Durgavati University, Jabalpur (M.P.)

CO-PO Mapping M.A. Philosophy (Session: 2020-22)

Sem	Course Code	Course Name	Sem		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
I	PIC101	Indian Epistemology	I	CO1	3	3	3	3	3	3	3	3	2	3	3
I	PIC101	Indian Epistemology	I	CO2	3	3	3	3	3	3	3	3	3	2	3
I	PIC101	Indian Epistemology	I	CO3	3	3	3	3	3	3	3	3	3	3	2
I	PIC101	Indian Epistemology	I	CO4	3	3	3	3	3	3	3	3	2	3	3
I	PIC101	Indian Epistemology	I	CO5	3	3	3	3	3	2	3	2	3	3	3
I	PIC101	Indian Epistemology	I	PIC101	3.0	3.0	3.0	3.0	3.0	2.8	3.0	2.8	2.6	2.8	2.8
I	PIC102	Western Epistemology	I	CO1	3	3	3	3	3	3	3	3	2	3	2
I	PIC102	Western Epistemology	I	CO2	3	3	3	3	3	3	3	3	3	2	3
I	PIC102	Western Epistemology	I	CO3	3	3	3	3	3	3	3	3	2	3	3
I	PIC102	Western Epistemology	I	CO4	3	3	3	3	3	3	3	2	3	3	2
I	PIC102	Western Epistemology	I	CO5	3	3	3	3	3	3	3	3	2	3	3
I	PIC102	Western Epistemology	I	PIC102	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.4	2.8	2.6
I	PIC103	Modern Logic	I	CO1	3	3	3	3	3	3	3	2	3	3	3
I	PIC103	Modern Logic	I	CO2	3	3	3	3	3	3	3	3	3	3	3
I	PIC103	Modern Logic	I	CO3	3	3	3	3	3	3	3	2	3	2	2
I	PIC103	Modern Logic	I	CO4	3	3	3	3	3	3	3	3	3	3	2
I	PIC103	Modern Logic	I	CO5	3	3	3	3	3	2	3	3	2	3	2
I	PIC103	Modern Logic	I	PIC103	3.0	3.0	3.0	3.0	3.0	2.8	3.0	2.6	2.8	2.8	2.4
I	PIC104	Indian Ethics	I	CO1	3	3	3	3	3	3	3	3	3	3	2
I	PIC104	Indian Ethics	I	CO2	3	3	3	3	3	3	3	3	3	3	2
I	PIC104	Indian Ethics	I	CO3	3	3	3	3	3	3	3	3	3	2	3
I	PIC104	Indian Ethics	I	CO4	3	3	3	3	3	3	3	3	3	3	2
I	PIC104	Indian Ethics	I	CO5	3	3	3	3	3	3	3	3	1	2	3
I	PIC104	Indian Ethics	I	PIC104	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.6	2.6	2.4
II	PIC205	Indian Metaphysics	II	CO1	3	3	3	3	3	3	3	3	2	3	2
II	PIC205	Indian Metaphysics	II	CO2	3	3	3	3	3	3	3	2	3	1	3
II	PIC205	Indian Metaphysics	II	CO3	3	3	3	3	3	3	3	3	3	3	2
II	PIC205	Indian Metaphysics	II	CO4	3	3	3	3	3	3	3	3	2	3	3
II	PIC205	Indian Metaphysics	II	CO5	3	3	3	3	3	3	3	3	2	3	2
II	PIC205	Indian Metaphysics	II	PIC205	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.4	2.6	2.4
II	PIC206	Western Metaphysics	II	CO1	3	3	3	3	3	3	3	2	3	2	3
II	PIC206	Western Metaphysics	II	CO2	3	3	3	3	3	3	3	3	2	3	2
II	PIC206	Western Metaphysics	II	CO3	3	3	3	3	3	3	3	2	3	3	3
II	PIC206	Western Metaphysics	II	CO4	3	3	3	3	3	3	3	3	2	3	3
II	PIC206	Western Metaphysics	II	CO5	3	3	3	3	3	3	3	2	2	3	2

II	PIC206	Western Metaphysics	II	PIC206	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.4	2.8	2.6
II	PIC207	Modern Logic	II	CO1	3	3	3	3	3	3	3	3	2	3	2	3
II	PIC207	Modern Logic	II	CO2	3	3	3	3	3	3	3	3	2	3	2	3
II	PIC207	Modern Logic	II	CO3	3	3	3	3	3	3	3	3	3	2	3	2
II	PIC207	Modern Logic	II	CO4	3	3	3	3	3	3	3	3	2	3	3	2
II	PIC207	Modern Logic	II	CO5	3	3	3	3	3	3	3	3	3	2	3	2
II	PIC207	Modern Logic	II	PIC207	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.4	2.6	2.6	2.4
II	PIC208	Western Ethics	II	CO1	3	3	3	3	3	3	3	3	3	2	2	3
II	PIC208	Western Ethics	II	CO2	3	3	3	3	3	3	3	3	3	2	2	3
II	PIC208	Western Ethics	II	CO3	3	3	3	3	3	3	3	3	3	3	3	3
II	PIC208	Western Ethics	II	CO4	3	3	3	3	3	3	3	3	3	3	3	2
II	PIC208	Western Ethics	II	CO5	3	3	3	3	3	3	3	3	2	3	3	2
II	PIC208	Western Ethics	II	PIC208	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.6	2.6	2.6
III	PIC309	Contemporary Western Philosophy	III	CO1	3	3	3	3	3	3	3	3	3	2	2	3
III	PIC309	Contemporary Western Philosophy	III	CO2	3	3	3	3	3	3	3	3	3	2	3	3
III	PIC309	Contemporary Western Philosophy	III	CO3	3	3	3	3	3	3	3	3	2	3	3	2
III	PIC309	Contemporary Western Philosophy	III	CO4	3	3	3	3	3	3	3	3	3	3	2	2
III	PIC309	Contemporary Western Philosophy	III	CO5	3	3	3	3	3	3	3	3	3	2	2	3
III	PIC309	Contemporary Western Philosophy	III	PIC309	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.4	2.4	2.6
III	PIC310	Modern Indian Thought	III	CO1	3	3	3	3	3	3	3	3	3	2	3	3
III	PIC310	Modern Indian Thought	III	CO2	3	3	3	3	3	3	3	3	2	3	2	2
III	PIC310	Modern Indian Thought	III	CO3	3	3	2	2	3	3	3	3	3	3	2	2
III	PIC310	Modern Indian Thought	III	CO4	3	3	3	3	3	3	3	3	2	3	2	3
III	PIC310	Modern Indian Thought	III	CO5	3	3	3	3	3	3	3	3	3	3	3	2
III	PIC310	Modern Indian Thought	III	PIC310	3.0	3.0	2.8	2.8	3.0	3.0	3.0	3.0	2.6	2.8	2.4	2.4
III	PIC311	Philosophy of Religion	III	CO1	3	3	3	3	3	3	3	3	2	3	2	2
III	PIC311	Philosophy of Religion	III	CO2	3	3	3	3	3	3	3	3	3	3	2	3
III	PIC311	Philosophy of Religion	III	CO3	3	2	3	3	3	3	3	3	2	2	3	2
III	PIC311	Philosophy of Religion	III	CO4	3	3	3	3	3	2	3	2	3	3	2	
III	PIC311	Philosophy of Religion	III	CO5	3	3	3	3	3	3	3	3	2	2	2	3
III	PIC311	Philosophy of Religion	III	PIC311	3.0	2.8	3.0	3.0	3.0	2.8	3.0	3.0	2.4	2.6	2.4	2.4
III	PIC312	Advaita Vedanta (a)	III	CO1	3	3	3	3	3	3	3	3	2	3	2	2
III	PIC312	Advaita Vedanta (a)	III	CO2	3	3	3	3	3	3	3	2	2	2	2	2
III	PIC312	Advaita Vedanta (a)	III	CO3	2	3	3	3	3	3	3	3	3	2	2	2
III	PIC312	Advaita Vedanta (a)	III	CO4	3	3	3	3	3	3	3	3	2	2	3	2
III	PIC312	Advaita Vedanta (a)	III	CO5	3	3	3	3	3	3	3	3	2	2	2	2
III	PIC312	Advaita Vedanta (a)	III	PIC312	2.8	3.0	3.0	3.0	3.0	3.0	3.0	2.8	2.2	2.2	2.2	2.0
IV	PIC413	Contemporary Western Philosophy	IV	CO1	3	3	3	3	3	3	3	3	2	3	3	2
IV	PIC413	Contemporary Western Philosophy	IV	CO2	3	3	3	3	3	3	3	3	3	3	3	3
IV	PIC413	Contemporary Western Philosophy	IV	CO3	3	3	3	3	3	3	3	2	2	2	3	2

IV	PIC413	Contemporary Western Philosophy	IV	CO4	3	3	3	3	3	3	3	3	3	2	3
IV	PIC413	Contemporary Western Philosophy	IV	CO5	3	3	2	3	3	3	3	3	2	3	2
IV	PIC413	Contemporary Western Philosophy	IV	PIC413	3.0	3.0	2.8	3.0	3.0	3.0	2.8	2.6	2.6	2.8	2.4
IV	PIC414	Modern Indian Thought	IV	CO1	3	3	3	3	3	3	3	2	3	2	3
IV	PIC414	Modern Indian Thought	IV	CO2	3	3	3	3	3	2	3	3	3	2	3
IV	PIC414	Modern Indian Thought	IV	CO3	3	3	3	3	3	3	3	3	2	2	2
IV	PIC414	Modern Indian Thought	IV	CO4	3	3	3	3	3	3	3	3	3	3	2
IV	PIC414	Modern Indian Thought	IV	CO5	3	3	3	3	3	3	3	3	2	3	3
IV	PIC414	Modern Indian Thought	IV	PIC414	3.0	3.0	3.0	3.0	3.0	2.8	3.0	2.8	2.6	2.4	2.6
IV	PIC415	Philosophy of Religion	IV	CO1	3	3	3	3	3	3	3	3	2	3	2
IV	PIC415	Philosophy of Religion	IV	CO2	3	3	3	3	3	3	2	3	2	2	2
IV	PIC415	Philosophy of Religion	IV	CO3	3	3	3	3	3	2	3	2	3	3	3
IV	PIC415	Philosophy of Religion	IV	CO4	3	3	3	3	3	3	3	3	3	3	3
IV	PIC415	Philosophy of Religion	IV	CO5	3	3	3	3	3	3	3	2	3	2	3
IV	PIC415	Philosophy of Religion	IV	PIC415	3.0	3.0	3.0	3.0	3.0	2.8	2.8	2.6	2.6	2.6	2.6
IV	PIC416	Advaita Vedanta (b)	IV	CO1	3	3	3	3	3	3	3	2	2	2	2
IV	PIC416	Advaita Vedanta (b)	IV	CO2	3	3	3	3	3	3	2	2	2	3	2
IV	PIC416	Advaita Vedanta (b)	IV	CO3	3	3	3	3	3	3	2	2	2	2	2
IV	PIC416	Advaita Vedanta (b)	IV	CO4	3	3	3	3	3	3	3	3	2	3	2
IV	PIC416	Advaita Vedanta (b)	IV	CO5	3	3	3	3	3	3	3	2	2	2	2
IV	PIC416	Advaita Vedanta (b)	IV	PIC416	3.0	3.0	3.0	3.0	3.0	3.0	2.6	2.2	2.0	2.4	2.0

Department of PG & Research in Philosophy, Rani Durgavati University, Jabalpur (M.P.)

CO-PO Mapping M.A. Philosophy (Session: 2020-22)

CourseCode:	Course Name	Sem		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
PIC101	Indian Epistemology	I	PIC101	3	3	3	3	3	2.8	3	2.8	2.6	2.8	2.8
PIC102	Western Epistemology	I	PIC102	3	3	3	3	3	3	3	2.8	2.4	2.8	2.6
PIC103	Modern Logic	I	PIC103	3	3	3	3	3	2.8	3	2.6	2.8	2.8	2.4
PIC104	Indian Ethics	I	PIC104	3	3	3	3	3	3	3	3	2.6	2.6	2.4
PIC205	Indian Metaphysics	II	PIC205	3	3	3	3	3	3	3	2.8	2.4	2.6	2.4
PIC206	Western Metaphysics	II	PIC206	3	3	3	3	3	3	3	2.4	2.4	2.8	2.6
PIC207	Modern Logic	II	PIC207	3	3	3	3	3	3	3	2.4	2.6	2.6	2.4
PIC208	Western Ethics	II	PIC208	3	3	3	3	3	3	3	2.8	2.6	2.6	2.6
PIC309	Contemporary Western Philosophy	III	PIC309	3	3	3	3	3	3	3	2.8	2.4	2.4	2.6
PIC310	Modern Indian Thought	III	PIC310	3	3	2.8	2.8	3	3	3	2.6	2.8	2.4	2.4
PIC311	Philosophy of Religion	III	PIC311	3	2.8	3	3	3	2.8	3	2.4	2.6	2.4	2.4
PIC312	Advaita Vedanta (a)	III	PIC312	2.8	3	3	3	3	3	2.8	2.2	2.2	2.2	2
PIC413	Contemporary Western Philosophy	IV	PIC413	3	3	2.8	3	3	3	2.8	2.6	2.6	2.8	2.4
PIC414	Modern Indian Thought	IV	PIC414	3	3	3	3	3	2.8	3	2.8	2.6	2.4	2.6
PIC415	Philosophy of Religion	IV	PIC415	3	3	3	3	3	2.8	2.8	2.6	2.6	2.6	2.6
PIC416	Advaita Vedanta (b)	IV	PIC416	3	3	3	3	3	3	2.6	2.2	2	2.4	2
				3	3	3	3	3	2.9	2.9	2.6	2.5	2.6	2.5

Department of PG & Research in Philosophy, Rani Durgavati University, Jabalpur (M.P.)

CO-PO Attainment M.A. Philosophy (Session: 2020-22)

Semester	ROLLNO	EXCODE	SUBCODE	ESE Obtained Marks	ESE Max Marks	Sessional Obtained Marks	Sessional Max Marks	Total Obtained Marks	Total Max marks	CA/(ESE+CA) ratio	ESE %	CA %	Total %	ESE benchmark (X) %	CA benchmark (X) %	Total benchmark (X) %	ESE >= X	CA >= X	Total >= X
I	20122811	U053	PIC101	32	60	25	40	57	100	0.4	53	63	57	65	65	65	0	0	0
I	20122811	U053	PIC102	32	60	28	40	60	100	0.4	53	70	60	65	65	65	0	1	0
I	20122811	U053	PIC103	35	60	34	40	69	100	0.4	58	85	69	65	65	65	0	1	1
I	20122811	U053	PIC104	35	60	32	40	67	100	0.4	58	80	67	65	65	65	0	1	1
I	20122812	U053	PIC101	34	60	28	40	62	100	0.4	57	70	62	65	65	65	0	1	0
I	20122812	U053	PIC102	33	60	28	40	61	100	0.4	55	70	61	65	65	65	0	1	0
I	20122812	U053	PIC103	34	60	28	40	62	100	0.4	57	70	62	65	65	65	0	1	0
I	20122812	U053	PIC104	34	60	30	40	64	100	0.4	57	75	64	65	65	65	0	1	0
I	20122813	U053	PIC101	36	60	30	40	66	100	0.4	60	75	66	65	65	65	0	1	1
I	20122813	U053	PIC102	36	60	30	40	66	100	0.4	60	75	66	65	65	65	0	1	1
I	20122813	U053	PIC103	36	60	35	40	71	100	0.4	60	88	71	65	65	65	0	1	1
I	20122813	U053	PIC104	36	60	34	40	70	100	0.4	60	85	70	65	65	65	0	1	1
II	20122811	U053	PIC205	29	60	20	40	49	100	0.4	48	50	49	65	65	65	0	0	0
II	20122811	U053	PIC206	37	60	27	40	64	100	0.4	62	68	64	65	65	65	0	1	0
II	20122811	U053	PIC207	38	60	28	40	66	100	0.4	63	70	66	65	65	65	0	1	1
II	20122811	U053	PIC208	28	60	18	40	46	100	0.4	47	45	46	65	65	65	0	0	0
II	20122812	U053	PIC205	32	60	24	40	56	100	0.4	53	60	56	65	65	65	0	0	0
II	20122812	U053	PIC206	36	60	23	40	59	100	0.4	60	58	59	65	65	65	0	0	0
II	20122812	U053	PIC207	33	60	23	40	56	100	0.4	55	58	56	65	65	65	0	0	0
II	20122812	U053	PIC208	32	60	25	40	57	100	0.4	53	63	57	65	65	65	0	0	0
II	20122813	U053	PIC205	30	60	22	40	52	100	0.4	50	55	52	65	65	65	0	0	0
II	20122813	U053	PIC206	39	60	28	40	67	100	0.4	65	70	67	65	65	65	1	1	1
II	20122813	U053	PIC207	38	60	28	40	66	100	0.4	63	70	66	65	65	65	0	1	1
II	20122813	U053	PIC208	32	60	21	40	53	100	0.4	53	53	53	65	65	65	0	0	0
III	20122811	U053	PIC309	32	60	28	40	60	100	0.4	53	70	60	65	65	65	0	1	0
III	20122811	U053	PIC310	25	60	20	40	45	100	0.4	42	50	45	65	65	65	0	0	0

III	20122811	U053	PIC311	28	60	29	40	57	100	0.4	47	73	57	65	65	65	0	1	0
III	20122811	U053	PIC312	42	60	20	40	62	100	0.4	70	50	62	65	65	65	1	0	0
III	20122812	U053	PIC309	29	60	28	40	57	100	0.4	48	70	57	65	65	65	0	1	0
III	20122812	U053	PIC310	51	60	28	40	79	100	0.4	85	70	79	65	65	65	1	1	1
III	20122812	U053	PIC311	38	60	29	40	67	100	0.4	63	73	67	65	65	65	0	1	1
III	20122812	U053	PIC312	41	60	25	40	66	100	0.4	68	63	66	65	65	65	1	0	1
III	20122813	U053	PIC309	33	60	29	40	62	100	0.4	55	73	62	65	65	65	0	1	0
III	20122813	U053	PIC310	38	60	20	40	58	100	0.4	63	50	58	65	65	65	0	0	0
III	20122813	U053	PIC311	38	60	30	40	68	100	0.4	63	75	68	65	65	65	0	1	1
III	20122813	U053	PIC312	44	60	20	40	64	100	0.4	73	50	64	65	65	65	1	0	0
IV	20122811	U053	PIC413	46	60	30	40	76	100	0.4	77	75	76	65	65	65	1	1	1
IV	20122811	U053	PIC414	39	60	28	40	67	100	0.4	65	70	67	65	65	65	1	1	1
IV	20122811	U053	PIC415	40	60	32	40	72	100	0.4	67	80	72	65	65	65	1	1	1
IV	20122811	U053	PIC416	38	60	28	40	66	100	0.4	63	70	66	65	65	65	0	1	1
IV	20122812	U053	PIC413	45	60	28	40	73	100	0.4	75	70	73	65	65	65	1	1	1
IV	20122812	U053	PIC414	43	60	30	40	73	100	0.4	72	75	73	65	65	65	1	1	1
IV	20122812	U053	PIC415	34	60	30	40	64	100	0.4	57	75	64	65	65	65	0	1	0
IV	20122812	U053	PIC416	39	60	30	40	69	100	0.4	65	75	69	65	65	65	1	1	1
IV	20122813	U053	PIC413	46	60	29	40	75	100	0.4	77	73	75	65	65	65	1	1	1
IV	20122813	U053	PIC414	42	60	30	40	72	100	0.4	70	75	72	65	65	65	1	1	1
IV	20122813	U053	PIC415	42	60	30	40	72	100	0.4	70	75	72	65	65	65	1	1	1
IV	20122813	U053	PIC416	40	60	30	40	70	100	0.4	67	75	70	65	65	65	1	1	1

Department of PG & Research in Philosophy, Rani Durgavati University, Jabalpur (M.P.)

CO-PO Attainment M.A. Philosophy (Session: 2020-22)

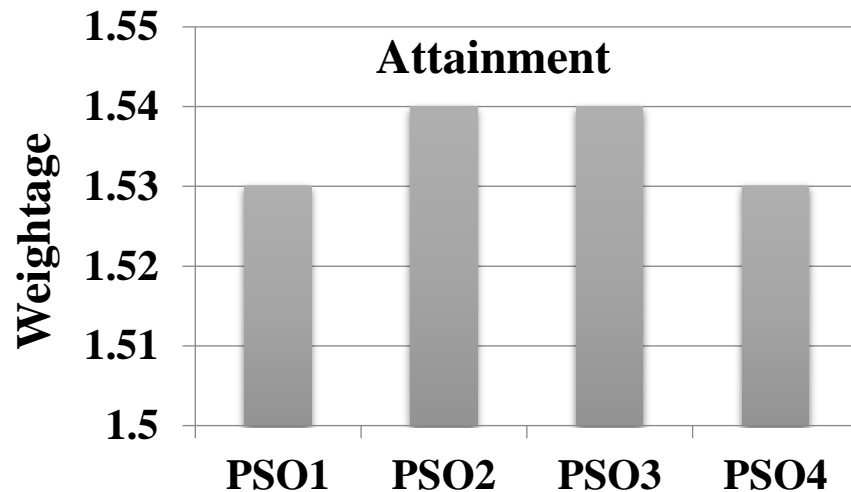
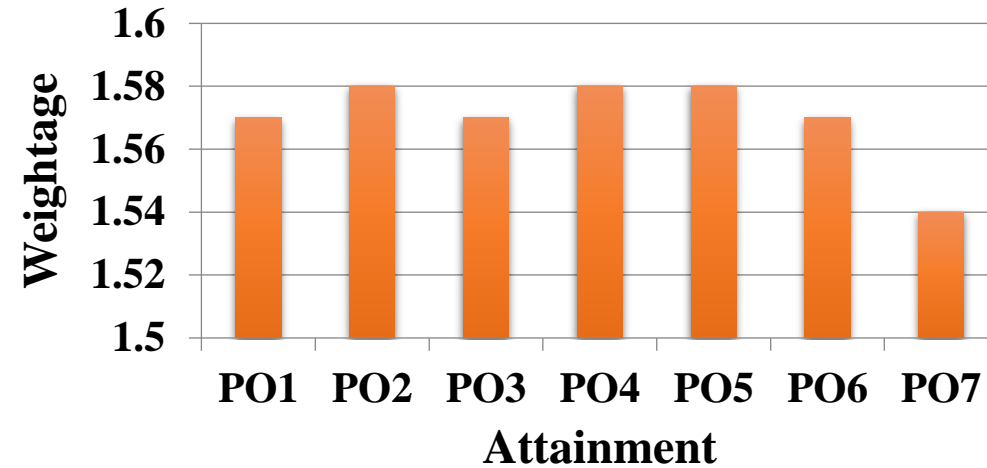
Level Satisfactory	1	50	% students scoring more than benchmark (X)
Level Moderate	2	60	% students scoring more than benchmark (X)
Level Substantial	3	70	% students scoring more than benchmark (X)
Bench Mark X	65		

Values		
SUBCODE	Count of ROLLNO	Sum of ESE >= X
PIC101	3	0
PIC102	3	0
PIC103	3	0
PIC104	3	0
PIC205	3	0
PIC206	3	1
PIC207	3	0
PIC208	3	0
PIC309	3	0
PIC310	3	1
PIC311	3	0
PIC312	3	3
PIC413	3	3
PIC414	3	3
PIC415	3	2
PIC416	3	2

% of students>X	direct attainment	indirect attainment	course attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	PSO4
0	0.00	3.2	0.64	3	3	3	3	3	2.8	3	2.8	2.6	2.8	2.8	1.92	1.92	1.92	1.92	1.92	1.792	1.92	1.792	1.664	1.792	1.792
0	0.00	3.2	0.64	3	3	3	3	3	3	3	2.8	2.4	2.8	2.6	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.792	1.536	1.792	1.664
0	0.00	3.2	0.64	3	3	3	3	3	2.8	3	2.6	2.8	2.8	2.4	1.92	1.92	1.92	1.92	1.92	1.792	1.92	1.664	1.792	1.792	1.536
0	0.00	3.2	0.64	3	3	3	3	3	3	3	3	2.6	2.6	2.4	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.664	1.664	1.536
0	0.00	3.2	0.64	3	3	3	3	3	3	3	2.8	2.4	2.6	2.4	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.792	1.536	1.664	1.536
34	0.68	3.2	1.18	3	3	3	3	3	3	3	2.4	2.4	2.8	2.6	3.54	3.54	3.54	3.54	3.54	3.54	3.54	2.832	2.832	3.304	3.068
0	0.00	3.2	0.64	3	3	3	3	3	3	3	2.4	2.6	2.6	2.4	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.536	1.664	1.664	1.536
0	0.00	3.2	0.64	3	3	3	3	3	3	3	2.8	2.6	2.6	2.6	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.792	1.664	1.664	1.664
0	0.00	3.2	0.64	3	3	3	3	3	3	3	2.8	2.4	2.4	2.6	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.792	1.536	1.536	1.664
34	0.68	3.2	1.18	3	3	2.8	2.8	3	3	3	2.6	2.8	2.4	2.4	3.54	3.54	3.304	3.304	3.54	3.54	3.54	3.068	3.304	2.832	2.832
0	0.00	3.2	0.64	3	2.8	3	3	3	2.8	3	2.4	2.6	2.4	2.4	1.92	1.792	1.92	1.92	1.92	1.792	1.92	1.536	1.664	1.536	1.536
100	3.99	3.2	3.83	2.8	3	3	3	3	3	2.8	2.2	2.2	2.2	2	10.72	11.49	11.49	11.49	11.49	11.49	10.72	8.426	8.426	8.426	7.66
100	3.99	3.2	3.83	3	3	2.8	3	3	3	2.8	2.6	2.6	2.8	2.4	11.49	11.49	10.72	11.49	11.49	11.49	10.72	9.958	9.958	10.72	9.192
100	3.99	3.2	3.83	3	3	3	3	3	2.8	3	2.8	2.6	2.4	2.6	11.49	11.49	11.49	11.49	11.49	10.72	11.49	10.72	9.958	9.192	9.958
67	2.70	3.2	2.80	3	3	3	3	3	2.8	2.8	2.6	2.6	2.6	2.6	8.4	8.4	8.4	8.4	8.4	7.84	7.84	7.28	7.28	7.28	7.28
67	2.70	3.2	2.80	3	3	3	3	3	3	2.6	2.2	2	2.4	2	8.4	8.4	8.4	8.4	8.4	8.4	7.28	6.16	5.6	6.72	5.6
				47.8	47.8	47.6	47.8	48	47	47	41.8	40.2	41.2	39.2	1.57	1.58	1.57	1.58	1.58	1.57	1.54	1.53	1.54	1.54	1.53

Bloom Summary of M.A. (Philosophy) (2020-2022)

<u>Parameters</u>			
Level Satisfactory	1	50	% students scoring more than benchmark (X)
Level Moderate	2	60	% students scoring more than benchmark (X)
Level Substantial	3	70	% students scoring more than benchmark (X)
Bench Mark (X) - 65%			



PO's	Attainment	PSO's	Attainment
PO1	1.57	PSO1	1.53
PO2	1.58	PSO2	1.54
PO3	1.57	PSO3	1.54
PO4	1.58	PSO4	1.53
PO5	1.58		
PO6	1.57		
PO7	1.54		

Conclusions : All Programme Objective outcomes, Programme Specific Objective outcomes and Course Objective outcomes were attained with 65% of Benchmark for the Session 2020-2022