

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

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

Se m	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	<b>PYC101</b>	<b>Mathematical Methods</b>	I	<b>PYC101</b>	<b>3.0</b>	<b>2.0</b>	<b>1.2</b>	<b>2.0</b>	<b>1.4</b>	<b>0.0</b>	<b>3.0</b>	<b>3.0</b>	<b>1.4</b>	<b>3.0</b>	<b>3.0</b>
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	<b>PYC102</b>	<b>Classical Mechanics</b>	I	<b>PYC102</b>	<b>3.0</b>	<b>2.0</b>	<b>1.4</b>	<b>2.0</b>	<b>1.8</b>	<b>0.0</b>	<b>3.0</b>	<b>3.0</b>	<b>2.0</b>	<b>3.0</b>	<b>3.0</b>
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	<b>PYC103</b>	<b>Electronic Devices</b>	I	<b>PYC103</b>	<b>3.0</b>	<b>2.0</b>	<b>1.4</b>	<b>2.4</b>	<b>2.2</b>	<b>0.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.0</b>	<b>3.0</b>	<b>2.2</b>
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	<b>PYE101</b>	<b>Computational Methods and Programming</b>	I	<b>PYE101</b>	<b>3.0</b>	<b>2.0</b>	<b>1.0</b>	<b>2.0</b>	<b>3.0</b>	<b>0.0</b>	<b>1.8</b>	<b>3.0</b>	<b>3.0</b>	<b>2.0</b>	<b>1.6</b>
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	<b>PYL 104</b>	<b>Lab A (Optics &amp; Electronics)</b>	I	<b>PYL 104</b>	<b>3.0</b>	<b>2.2</b>	<b>2.4</b>	<b>1.8</b>	<b>2.2</b>	<b>0.0</b>	<b>2.4</b>	<b>2.4</b>	<b>2.6</b>	<b>1.8</b>	<b>1.2</b>
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	<b>PYL 105</b>	<b>Lab B (Computer Programming)</b>	I	<b>PYL 105</b>	<b>3.0</b>	<b>1.6</b>	<b>2.0</b>	<b>2.0</b>	<b>1.0</b>	<b>0.0</b>	<b>2.2</b>	<b>2.0</b>	<b>2.0</b>	<b>1.8</b>	<b>1.4</b>
II	<b>PYC201</b>	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	<b>PYC201</b>	<b>Quantum Mechanics -I</b>	II	<b>PYC201</b>	<b>3.0</b>	<b>1.6</b>	<b>2.4</b>	<b>1.6</b>	<b>1.6</b>	<b>0.0</b>	<b>2.0</b>	<b>3.0</b>	<b>2.0</b>	<b>3.0</b>	<b>2.0</b>
II	<b>PYC202</b>	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	<b>PYC202</b>	<b>Statistical Mechanics</b>	II	<b>PYC202</b>	<b>2.8</b>	<b>2.4</b>	<b>2.4</b>	<b>2.2</b>	<b>1.6</b>	<b>0.0</b>	<b>3.0</b>	<b>1.8</b>	<b>2.2</b>	<b>3.0</b>	<b>2.6</b>
II	<b>PYC203</b>	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	<b>PYC203</b>	<b>Electrodynamics and Plasma Physics</b>	II	<b>PYC203</b>	<b>3.0</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>1.4</b>	<b>0.0</b>	<b>2.4</b>	<b>2.2</b>	<b>2.4</b>	<b>2.0</b>	<b>2.2</b>
II	<b>PYE201</b>	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	<b>PYE201</b>	<b>Condensed Matter Physics</b>	II	<b>PYE201</b>	<b>3.0</b>	<b>2.0</b>	<b>2.4</b>	<b>2.0</b>	<b>2.0</b>	<b>1.0</b>	<b>2.6</b>	<b>3.0</b>	<b>2.0</b>	<b>2.6</b>	<b>2.0</b>
II	<b>PYL 204</b>	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	<b>PYL 204</b>	<b>Lab A (Optics &amp; Electronics)</b>	II	<b>PYL 204</b>	<b>3.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.6</b>	<b>1.0</b>	<b>1.0</b>	<b>3.0</b>	<b>3.0</b>	<b>2.0</b>	<b>2.4</b>	<b>2.0</b>
II	<b>PYL 205</b>	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	<b>PYL 205</b>	<b>Lab B (Computer Programming)</b>	II	<b>PYL 205</b>	<b>3.0</b>	<b>2.0</b>	<b>2.0</b>	<b>2.6</b>	<b>1.0</b>	<b>2.4</b>	<b>2.0</b>	<b>3.0</b>	<b>2.0</b>	<b>2.6</b>	<b>2.6</b>
III	<b>PYC301</b>	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	<b>PYC301</b>	<b>Quantum Mechanics – II</b>	III	<b>PYC301</b>	<b>3.0</b>	<b>2.0</b>	<b>1.6</b>	<b>1.8</b>	<b>2.0</b>	<b>0.0</b>	<b>1.8</b>	<b>3.0</b>	<b>2.0</b>	<b>2.4</b>	<b>2.0</b>
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	<b>PYC302</b>	<b>Nuclear and Particle Physics</b>	III	<b>PYC302</b>	<b>3.0</b>	<b>2.0</b>	<b>3.0</b>	<b>2.0</b>	<b>0.0</b>	<b>0.0</b>	<b>2.8</b>	<b>3.0</b>	<b>3.0</b>	<b>2.4</b>	<b>2.0</b>
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	<b>PYSE301</b>	<b>Condensed Matter Physics - I</b>	III	<b>PYSE301</b>	<b>3.0</b>	<b>2.4</b>	<b>2.8</b>	<b>2.4</b>	<b>2.4</b>	<b>1.0</b>	<b>2.6</b>	<b>2.4</b>	<b>2.6</b>	<b>2.0</b>	<b>2.2</b>
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	<b>PYSE302</b>	<b>Electronics - I</b>	III	<b>PYSE302</b>	<b>3.0</b>	<b>2.4</b>	<b>2.6</b>	<b>2.0</b>	<b>1.0</b>	<b>0.0</b>	<b>2.8</b>	<b>2.2</b>	<b>2.2</b>	<b>2.2</b>	<b>2.0</b>
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	<b>PYL 301</b>	<b>Condensed Matter Physics LAB</b>	III	<b>PYL 301</b>	<b>3.0</b>	<b>2.0</b>	<b>2.6</b>	<b>1.8</b>	<b>2.0</b>	<b>1.0</b>	<b>2.6</b>	<b>2.2</b>	<b>2.6</b>	<b>2.0</b>	<b>2.0</b>
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	<b>PYL 302</b>	<b>Electronics LAB</b>	III	<b>PYL 302</b>	<b>3.0</b>	<b>2.2</b>	<b>2.6</b>	<b>2.0</b>	<b>1.2</b>	<b>0.0</b>	<b>2.2</b>	<b>2.2</b>	<b>2.4</b>	<b>2.0</b>	<b>2.2</b>
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	<b>PYC401</b>	<b>Atomic and Molecular Physics</b>	IV	<b>PYC401</b>	<b>3.0</b>	<b>2.0</b>	<b>2.6</b>	<b>2.2</b>	<b>2.0</b>	<b>1.0</b>	<b>2.4</b>	<b>2.4</b>	<b>2.0</b>	<b>2.6</b>	<b>2.0</b>
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	<b>PYE401</b>	<b>Physics of Lasers and Laser Applications</b>	IV	<b>PYE401</b>	<b>3.0</b>	<b>2.0</b>	<b>2.4</b>	<b>2.2</b>	<b>1.6</b>	<b>1.0</b>	<b>2.4</b>	<b>2.2</b>	<b>2.0</b>	<b>2.4</b>	<b>2.0</b>
IV	<b>PYSE401</b>	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	<b>PYSE401</b>	<b>Condensed Matter Physics-II</b>	IV	<b>PYSE401</b>	<b>3.0</b>	<b>2.2</b>	<b>2.0</b>	<b>2.0</b>	<b>1.0</b>	<b>1.0</b>	<b>2.6</b>	<b>2.2</b>	<b>2.0</b>	<b>2.6</b>	<b>2.2</b>
IV	<b>PYSE402</b>	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	<b>PYSE402</b>	<b>Electronics-II</b>	IV	<b>PYSE402</b>	<b>3.0</b>	<b>2.2</b>	<b>2.0</b>	<b>2.6</b>	<b>1.0</b>	<b>0.0</b>	<b>2.2</b>	<b>2.2</b>	<b>2.4</b>	<b>2.2</b>	<b>2.4</b>
IV	<b>PYL 401</b>	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	<b>PYL 401</b>	<b>Condensed Matter Physics LAB</b>	IV	<b>PYL 401</b>	<b>3.0</b>	<b>2.2</b>	<b>2.0</b>	<b>2.4</b>	<b>2.0</b>	<b>1.0</b>	<b>2.2</b>	<b>2.4</b>	<b>2.6</b>	<b>2.2</b>	<b>2.2</b>
IV	<b>PYL 402</b>	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	<b>PYL 402</b>	<b>Electronics LAB</b>	IV	<b>PYL 402</b>	<b>3.0</b>	<b>2.6</b>	<b>2.0</b>	<b>2.2</b>	<b>1.0</b>	<b>0.0</b>	<b>2.4</b>	<b>2.6</b>	<b>2.2</b>	<b>2.0</b>	<b>2.8</b>

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

### 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
				<b>3</b>	<b>2.1</b>	<b>2.1</b>	<b>2.1</b>	<b>1.6</b>	<b>0.4</b>	<b>2.4</b>	<b>2.5</b>	<b>2.2</b>	<b>2.4</b>	<b>2.2</b>

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

### 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)**

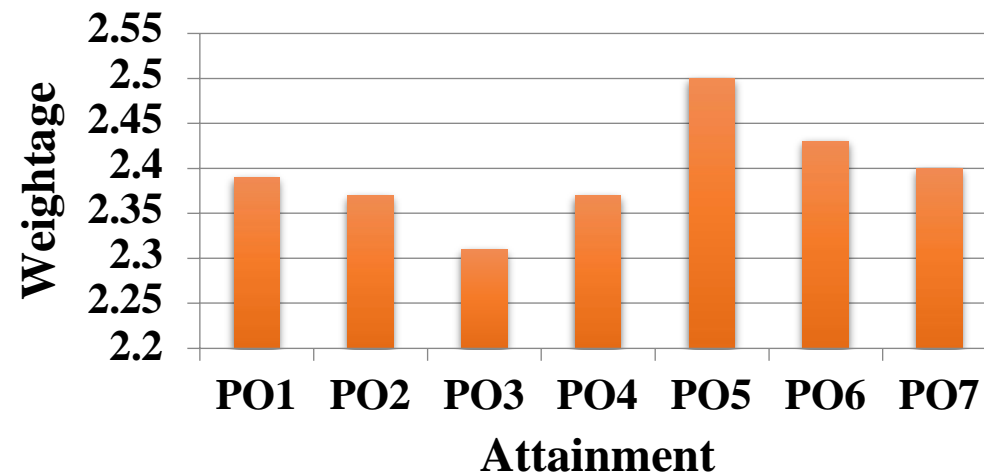
Level Satisfactory	1	50	% students scoring more than benchmark (X)
Level Moderate	2	60	% students scoring more than benchmark (X)
Level Substantial	3	70	% students scoring more than benchmark (X)
<b>Bench Mark X</b>	<b>65</b>		

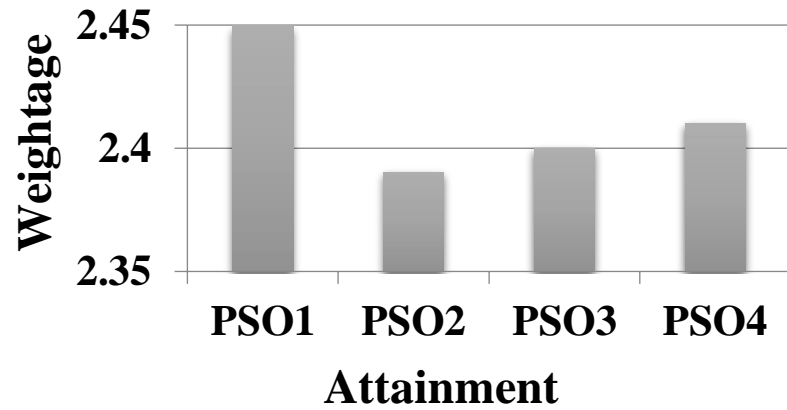
Values		
SUBCODE	Count of ROLLNO	Sum of ESE >= X
PYC101	22	15
PYC102	22	22
PYC103	22	11
PYE101	22	22
PYL 104	22	18
PYL 105	22	19
PYC201	22	20
PYC202	22	21
PYC203	22	12
PYE201	22	21
PYL 204	22	18
PYL 205	22	19
PYC301	22	0
PYC302	22	0
PYSE301	22	1
PYSE302	22	0
PYL 301	22	17
PYL 302	22	17
PYC401	22	3
PYE401	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	<b>2.39</b>	<b>2.37</b>	<b>2.31</b>	<b>2.37</b>	<b>2.50</b>	<b>2.43</b>	<b>2.40</b>	<b>2.45</b>	<b>2.39</b>	<b>2.40</b>	<b>2.41</b>

## 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		

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



