

Basantsing Institute of Science & J. T. Lalvani College of Commerce and Sheila Gopal Raheja College of Management.

### Autonomous

### **Program Name: Master of Science (M.Sc. in Physical Chemistry)**

Code	CO\PO	PO1 Knowledge	PO2 Research	PO3 Laboratory skills	PO4 Critical Analysis	PO5 Instrumentatio n skills	PO6 Synthesis and characterisa tion	PO7 Chemical Safety	PO8 Green Chemistry	PO9 Chemical Informatics	PO10 Entrepreneurship	PO11 Leadership	PO12 Professional Development	PO13 Continuous learning	PO14 Chemical health and wellness	PO15 Intellectual property	H/M/L
PSCHE101	CO1	<b>V</b>	V	~	lacksquare	✓		<b>~</b>	$\overline{\mathbf{Z}}$		<b>V</b>		~	lacksquare		~	н
PSCHE102	CO2	✓	<b>V</b>					<b>✓</b>	~			~	✓	✓	~		м
PSCHE103	CO3	~	<b>V</b>		✓		_		~		~	~	~	~	~	~	н
PSCHE104	CO4	~	✓		~	~		<b>✓</b>	~	~	~	~	✓	✓	~	~	Н
PSCHEPR101	COS	✓	✓	✓		~		✓	✓	✓	✓		✓	✓	✓		н
PSCHEPR102	CO6		✓	~		~	✓	<b>✓</b>	~	_	~			~	~		н
PSCHEPR103	CO7	✓	✓	✓		~		<b>✓</b>		✓	✓		✓	✓	✓	<b>&gt;</b>	н
PSCHEPR104	CO8	✓	✓	~				✓	<b>V</b>	✓	✓		✓	✓	✓		н
PSCHE201	CO9		✓								~	_	✓	~		~	М
PSCHE202	CO10	✓	✓					<b>V</b>			✓	✓	✓	✓	✓	<b>&gt;</b>	н
PSCHE203	CO11					~	✓									<b>V</b>	н
PSCHE204	CO12	✓	✓			~	✓			~	~	~	~	~		V	Н
PSCHEPR201	CO13		✓	~		✓		<b>~</b>		✓			✓	ightharpoons	<b>~</b>	V	н
PSCHEPR202	CO14	~		~		<b>&gt;</b>	✓	~	~	~			~		~	V	н
PSCHEPR203	CO15	✓	✓	~			~	~	~		✓		~	~	~	V	Н
PSCHEPR204	CO16	✓		~		~	$\checkmark$	<b>~</b>	~	<b>V</b>			~	✓		V	н
PSCHE1301	CO17	✓				~	ightharpoons		~		~	~	✓			V	н
PSCHE1302	CO18	~	✓			~	~				✓	~	~	<b>V</b>		>	М
PSCHE1303	CO19	✓	ightharpoons			~		<b>~</b>	~		✓	~	~	ightharpoons	~	V	н
PSCHE1304	CO20	✓			~		~				✓	~	~			>	М
PSCHEP1301	CO29	~	✓	~		~	~	~	~	~	✓		~	<b>V</b>	~	V	Н
PSCHEP1302	CO30	~	✓	~		~	~	~	~	~			~	ightharpoons	~	V	н
PSCHEP1303	CO31		☑							✓	✓	<b>V</b>	✓	V		V	М
PSCHEP1304	CO32		✓						✓	✓		_	✓	V		V	М
PSCHE1401	CO41		✓			<b>V</b>	✓				✓	<b>~</b>	✓	V		Y	М
PSCHE1402	CO42	$\blacksquare$	✓				✓				✓	~	✓	V		V	М
PSCHE1403	CO43		☑			✓	✓			✓	✓	<b>✓</b>	✓	V		V	н
PSCHE1404	CO44		✓			✓				✓	✓	✓	✓	✓		<b>&gt;</b>	н
PSCHEP1401	CO53	✓	✓	✓	<b>V</b>	✓	✓	~	<b>V</b>	$\blacksquare$	✓		<b>V</b>	V	<b>V</b>	V	н
PSCHEP1402	CO54	✓	✓	✓	<b>V</b>	✓	✓	<b>~</b>	~	✓	✓		✓	<b>V</b>	<b>V</b>	V	н
PSCHEP1403	CO55	✓	✓				✓			✓	✓		<b>V</b>	V		Ŋ	М
PSCHEP1404	CO56	✓	✓	✓		✓	✓	~	~	$\blacksquare$	✓		✓	$ lap{}$	<b>~</b>	V	н



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							PO6								2014		
				PO3	PO4	PO5	Synthesis and	PO7	PO8	PO9			PO12	PO13	PO14 Chemical	PO15	
		PO1	PO2		Critical	Instrumentatio	characterisa				PO10	PO11	Professional	Continuous	health and	Intellectual	
Code	CO\PO	Knowledge	Research	Laboratory skills	Analysis	n skills	tion	Chemical Safety	Green Chemistry	Chemical Informatics	Entrepreneurship	Leadership	Development	learning	wellness		H/M/L
PSCHE101	CO1	Knowledge	Kesearch	SKIIIS	Analysis	TI SKIIIS	L CON	Safety	Chemistry		Entrepreneursnip ✓	Leadership	Development	learning	weilness	property 🔽	H
PSCHE101 PSCHE102	CO2	<u> </u>	-	<del></del>		<del>-</del>	<del>                                     </del>		<u> </u>	<del>-</del>	<del></del>	<b>V</b>	<u> </u>		<u> </u>	-	M
PSCHE102	CO3		-	<del>                                     </del>		<del>- i-</del>				<del>- i</del>							Н
PSCHE103	CO4	<u> </u>	7	<del>                                     </del>		<u> </u>	<del></del>			<u> </u>		<u> </u>					H
PSCHEPR101	CO5		<u> </u>	<u> </u>			<u> </u>					<del>-</del>				-	H
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PSCHEPR103	CO7											<del></del>				<u> </u>	H
PSCHEPR103	CO8	<u> </u>	7	<u> </u>		<del>-</del>					<u> </u>	<del></del>		<u> </u>		-	H
PSCHE201	CO9			<del></del>		<del>- i-</del>			<del>                                     </del>	-		<u> </u>			<del></del>	<u> </u>	M
PSCHE201	CO10		7	<del>                                     </del>		<del></del>				<u> </u>					<u> </u>		Н
PSCHE202	CO11		7	<del></del>		7		<del>-</del>	<del>                                     </del>	<u> </u>	<u> </u>	<u> </u>					H
PSCHE203	CO12		7	<del></del>				<del>-</del>	<del>                                     </del>		<u> </u>	<u> </u>			<del>-</del>		H
PSCHEPR201	CO12	<u> </u>	7			_			<u> </u>	_	<u> </u>	<u> </u>	_				H
PSCHEPR202	CO13		7						<u> </u>		<u> </u>	<u> </u>					H
PSCHEPR203	CO14		<u> </u>			<del>-</del>			<u> </u>	<u> </u>		<u> </u>					H
PSCHEPR204	CO16		<u> </u>	<u> </u>	<u> </u>		<u> </u>			<u> </u>		<u> </u>	<u> </u>		<u> </u>	_	H
PSCHE2301	CO21		<u> </u>	<del></del>	<u> </u>	<u> </u>	<del> </del>	<del>-</del>	<del>                                     </del>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	М
PSCHE2302	CO22	<u> </u>	<u> </u>	<del></del>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<del>                                     </del>	ō	<b>2</b>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<b>✓</b>	M
PSCHE2303	CO23	<b>V</b>	<b>V</b>		<b>V</b>	<b>V</b>	✓	<b>V</b>			<b>V</b>	✓	<b>V</b>	<b>V</b>	<b>V</b>	<b>✓</b>	Н.
PSCHE2304	CO24	✓	V		<b>V</b>		✓				<b>V</b>	✓	<b>V</b>	<b>V</b>		<b>✓</b>	м
PSCHEP2301	CO33	✓	<b>✓</b>	<b>V</b>	<b>✓</b>	✓	<b>V</b>	~	_	<b>V</b>	<b>V</b>		<b>V</b>	<b>~</b>	<b>V</b>	<b>~</b>	Н
PSCHEP2302	CO34	<b>V</b>	V	<b>V</b>	<b>✓</b>	<b>V</b>	<b>V</b>	~	<b>V</b>	<b>V</b>	<b>V</b>		<b>V</b>	<b>V</b>	<b>V</b>	<b>~</b>	Н
PSCHEP2303	CO35	✓	<b>V</b>		<b>V</b>					<b>V</b>	<b>Z</b>	<b>V</b>	<b>V</b>	<b>▽</b>		<b>V</b>	м
PSCHEP2304	CO36		<u> </u>	<u> </u>	<u> </u>		i i				-				-		M
PSCHE2401	CO45	<u> </u>			<u> </u>	<u> </u>			<del>                                     </del>			<u> </u>	<u> </u>	<u> </u>	<u> </u>		M
PSCHE2402	CO46			<u> </u>					<del>                                     </del>	<u> </u>	<u> </u>				-		M
PSCHE2403	CO47			-		<u> </u>			l ö						ō		Н Н
PSCHE2404	CO48			<u> </u>	<u> </u>				<del>                                     </del>		<u> </u>		<u> </u>		-		Н
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PSCHEP2402	CO58			<u> </u>								ō					Н.
PSCHEP2403	CO59	<u> </u>	V		<u> </u>	<u> </u>			<del>                                     </del>			<u> </u>	<u> </u>	<u> </u>	<u> </u>		М
PSCHEP2404	CO60		V	<u> </u>							<u> </u>	<u> </u>			<u> </u>		Н Н
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PSCHE102 ( PSCHE103 ( PSCHE104 ( PSCHEPRI01 ( PSCHEPRI02 ( PSCHEPRI03 ( PSCHEPRI03 ( PSCHEPRI03 ( PSCHEPRI04 ( PSCHEPRI04 ( PSCHE203 ( PSCHE203 ( PSCHE203 ( PSCHE204 ( PSCHEPRI05 ( PSCHEPRI06 ( PSCHEPRI06 ( PSCHEPRI07 ( PSCHEP	CO2 CO3 CO4 CO5 CO6 CO7 CO8	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			_		~	✓ ✓	Informatics	Entrepreneurship 🗸	Leadership	Development	learning 🗸	wellness	property	H/M/L
PSCHE103 (C PSCHE104 (C PSCHEPR101 (C PSCHEPR102 (C PSCHEPR103 (C PSCHEPR104 (C PSCHE201 (C PSCHE203 (C PSCHE203 (C PSCHE204 (C PSCHE204 (C PSCHE204 (C PSCHE204 (C) PSCHE205 (C) PSCHE206 (C) PSCHE206 (C) PSCHEPR201 (C) PSCHEPR201 (C) PSCHEPR201 (C)	CO3 CO4 CO5 CO6 CO7 CO8	\ \ \ \ \	N N					<u> </u>		<del>                                     </del>			<u> </u>	2			Н
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PSCHEPR101 (C) PSCHEPR102 (C) PSCHEPR103 (C) PSCHEPR104 (C) PSCHE201 (C) PSCHE202 (C) PSCHE203 (C) PSCHE204 (C) PSCHE204 (C) PSCHEPR201 (C) PSCHEPR201 (C) PSCHEPR202 (C)	CO5 CO6 CO7 CO8	Ø Ø	<b>V</b>	_	<u> </u>	<u> </u>		<u> </u>			<u> </u>	2	<u> </u>	2	2	<u> </u>	Н
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	CO13			~	~	✓	~		<b>V</b>	~	~		~	_	~		н
	CO14	✓	>	~	V	✓	<b>&gt;</b>	>		<b>~</b>	~		V	✓			н
PSCHEPR203 C	CO15	✓	<b>&gt;</b>	<	V		~	>	~		~		~				н
PSCHEPR204 C	CO16	✓	V		V	✓	~	<b>&gt;</b>		<b>V</b>	✓		~				н
PSCHE3301 C	CO25	~	$\checkmark$		~		✓		<b>~</b>		<b>✓</b>	✓	~			✓	м
PSCHE3302 C	CO26	~	~		~		~		~		~	~	~	✓		$ lap{}$	м
PSCHE3303 C	CO27	~	~		~		~		~		✓	~	~	✓		ightharpoons	м
PSCHE3304 C	CO28	~	~		~		~	~	~		✓	~	~	✓			н
PSCHEP3301 C	CO37	✓	✓		~		✓	~	<b>V</b>		✓		~				н
PSCHEP3302 C	CO38	✓	✓		✓		<b>V</b>	<b>V</b>			✓						н
PSCHEP3303 C	CO39	✓	✓		~					<b>V</b>	✓	✓	<b>V</b>				м
	CO40	<b>2</b>	~		✓				<b>V</b>	~		✓	<b>✓</b>	■			М
	CO49	✓	<b>V</b>		✓	✓	<b>V</b>				✓	✓	✓	✓			м
	CO50	<u> </u>		<u> </u>	<b>Z</b>	ō	<u> </u>		l ö	<u> </u>	<u> </u>						M
	CO51	<u> </u>			<b>Z</b>	<b>Z</b>			<u> </u>		<b>V</b>		~				н
	CO52								l ö		<u> </u>				<del>                                     </del>		Н.
	CO61		<u> </u>	<u> </u>		<u> </u>				<u> </u>		<u> </u>					Н.
	CO62									<del>-</del>		<del>- i -</del>					Н.
	CO63			<u> </u>		<u> </u>			<del></del>			<del>- i -</del>				<u> </u>	M
PSCHEP3404 C				<u> </u>						_	_						