#### CBCSS PG 2019

### M. Sc PHYSICS

Code	Title	Credit
SEMESTER I		
PHY1C01	Classical Mechanics	4
PHY1C02	Mathematical Physics - I	4
PHY1C03	Electrodynamics and Plasma Physics	4
PHY1C04	Electronics	4
PHY1P01	General Physics Practical - I	*
PHY1P02	Electronics Practical - I	*
PHY1A01	Ability Enhancement Course (Seminar on Recent Development in Physics - Not Counted for SGPA/CGPA)	4
	SEMESTER II	l
PHY2C05	Quantum Mechanics - I	4
PHY2C06	Mathematical Physics - II	4
PHY2C07	Statistical Mechanics	4
PHY2C08	Computational Physics	4
PHY2P03	General Physics Practical - II	3
PHY2P04	Electronics Practical - II	3
PHY2A02	Professional Competency Course (Professional Training on LaTeX - Not Counted for SGPA/CGPA)	4
	SEMESTER III	
PHY3C09	Quantum Mechanics - II	4
PHY3C10	Nuclear & Particle Physics	4
PHY3C11	Solid State Physics	4
PHY3E07	Experimental Techniques	4
PHY3P05	Modern Physics Practical - I	*
PHY4Pr	Project	*
SEMESTER IV		
PHY4C12	Spectroscopy	4

Code	Title	Credit
PHY4E11	Material Science	4
PHY4E20	Microprocessor & Applications	4
PHY4Pr1	Project	4
PHY4P06	Modern Physics Practical II	3
PHY4P07	Computational Physics Practical	3
PHY4V01	Viva Voce	4

## M. Sc CHEMISTRY

Code	Title	Credit
SEMESTER I		
CHE1C01	Quantum Mechanics and Computational Chemistry	4
CHE1C02	Elementary inorganic chemistry	4
CHE1C03	Structure and reactivity of organic	
CHETCOS	Compounds	4
CHE1C04	Thermodynamics, kinetics and catalysis	4
CHE1L01	Inorganic chemistry practical I	*
CHE1L02	Organic chemistry Practical I	*
CHE1L03	Physical chemistry practical I	*
CHE1A01	Ability Enhancement Course (Industrial Visit - Not Counted for SGPA/CGPA)	4
	SEMESTER II	
CHE2C05	Group Theory and Chemical Bonding	3
CHE2C06	Coordination Chemistry	3
CHE2C07	Organic Reaction Mechanisms	3
CHE2C08	Electrochemistry, Solid State Chemistry and Statistical Thermodynamics	3
CHE2L04	Inorganic Chemistry Practical II	3
CHE2L05	Organic Chemistry Practical II	3
CHE2L06	Physical Chemistry Practical II	3

Code	Title	Credit
CHE2A02	Professional Competency Course (Training on Computational Chemistry - Not Counted for SGPA/CGPA)	4
	SEMESTER III	
CHE3C09	Molecular Spectroscopy	4
CHE3C10	Organometallic & Bioinorganic Chemistry	4
CHE3C11	Reagents and Transformations in Organic Chemistry	4
CHE3L07	Inorganic Chemistry Practical III	*
CHE3L08	Organic Chemistry Practical III	*
CHE3L09	Physical Chemistry Practical III	*
CHE3E01	Synthetic Organic Chemistry(Elective)	4
	SEMESTER IV	
CHE4C12	Instrumental Methods of Analysis	4
CHE4L10	Inorganic Chemistry Practical IV	3
CHE4L11	Organic Chemistry Practical IV	3
CHE4L12	Physical Chemistry Practical IV	3
CHE4E05	Industrial Catalysis(Elective)	4
CHE4E08	Organometallic Chemistry	4
CHE4P01	Research Project	4
CHE4V01	Viva Voce	2

## M. Sc MATHEMATICS

Code	Title	Credit	
	SEMESTER I		
MTH1C01	Algebra 1	4	
MTH1C02	Linear Algebra	4	
MTH1C03	Real Analysis - I	4	
MTH1C04	Discrete Mathematics	4	
MTH1C05	Number Theory	4	
MTH1A01	Ability Enhancement Course (Not Counted for SGPA/CGPA)	4	
SEMESTER II			
MTH2C06	Algebra II	4	
MTH2C07	Real Analysis II	4	

Code	Title	Credit
MTH2C08	Topology	4
MTH2C09	ODE and Calculus of Variations	4
MTH2C10	Operations Research	4
MTH2A02	Professional Competency Course(Not Counted for SGPA/CGPA)	
	SEMESTER III	
MTH3C11	Multivariable Calculus and Geometry	4
MTH3C12	Complex Analysis	4
MTH3C13	Functional Analysis	4
MTH3C14	PDE and Integral Equations	4
	Elective - 1	3
	SEMESTER IV	
MTH4C15	Advanced Functional Analysis	4
	Elective - II	3
	Elective - III	3
	Elective - IV	3
MTH4P01	Project	4
MTH4V01	General Viva	4

## M. Sc MICRO BIOLOGY

Code	Title	Credit
	SEMESTER I	
MBG1C01	General Biochemistry& Microbial Metabolism	4
MBG1C02	Bio-Physics & Instrumentation	3
MBG1C03	Environmental and Sanitation Microbiology	3
MBG1C04	Agricultural Microbiology& Plant Pathology	2
MBG1L01	Practical I	4
MBG1L02	Practical II	4
Audit Course - I	Ability Enhancement Course(Not Counted for SGPA/CGPA)	4

Code	Title	Credit	
	SEMESTER II		
MBG2C05	Principles of Genetics	4	
MBG2C06	Food & Dairy Microbiology	4	
MBG2C07	Industrial Microbiology	4	
MBG2C08	Immunology	4	
MBG3L03	Practical III	4	
	SEMESTER III		
MBG3C09	Medical Microbiology	4	
MBG3C10	Molecular Biology	4	
MBG3E03	Microbial Taxonomy	4	
MBG3L04	Practical IV	4	
MBG3L05	Practical V		
	SEMESTER IV		
MBG4C11	Biostatistics and Bioinformatics	4	
MBG4E04	Genetic Engineering	4	
MBG4L06	Practical VI	4	
MBG4P	Dissertation	8	
Audit Course - II	Professional Competency Course(Not Counted for SGPA/CGPA)	4	

# M. Com

Code	Title	Credit
	SEMESTER I	
MCM1C01	Business Environment& Policy	4
MCM1C02	Corporate Governance & Business Ethics	4
MCM1C03	Quantitative Techniques for Business Decisions	4
MCM1C04	Management Theory and Organizational Behaviour	4
MCM1C05	Advanced Management Accounting	4
MCM1A04	NET Coaching(Not Counted for SGPA/CGPA)	4
SEMESTER II		

orate Accounting	4
egic Management	4
Accounting	4
siness	4
ience	4
plication (Not Counted for SGPA/CGPA)	4
SEMESTER III	
gement	4
y, Practice and Tax Planning I	4
dology	4
stment Management	4
ancial Market & Institutions	4
SEMESTER IV	
ntives & Risk Management	4
y, Practice and Tax Planning II	4
ernational Finance	4
vanced Strategic FinancialManagement	4
Comprehensive Viva Voce	4
	gement  y, Practice and Tax Planning I  dology  stment Management  ancial Market & Institutions

### M. A JOURNALISM AND MASS COMMUNICATION

Code	Title	Credit
	SEMESTER I	
MCJ1C01	Introduction to Mass Communication	4
MCJ1C02	Reporting News	4
MCJ1C03	Editing News	4
MCJ1C04	Media History	3
MCJ1C05	Communication Laws and Editing	3
MCJ1L01	Graphic Design & Print Media Production (Practical)	2
MCJ1A01	Indian Politics (Ability Enhancement Course - (Not Counted for SGPA/CGPA))	4

Code	Title	Credit	
SEMESTER II			
MCJ2C01	Media, Culture and Society	4	
MCJ2C02	Advertising and Marketing Communication	4	
MCJ2C03	Radio and Television Production	4	
MCJ2C04	Development Communication	3	
MCJ2C05	Global Communication	3	
MCJ2L01	Photography and Videography (Practical)	2	
MCJ1A01	Audio Visual Editing (ProfessionalCompetency Course - (Not Counted for SGPA/CGPA))	4	
	SEMESTER III		
MCJ3C01	Communication Research	4	
MCJ3C02	Public Relations and Corporate Communication	4	
MCJ3C03	Online Journalism	4	
MCJ3C04	Media Management and Entrepreneurship	4	
MCJ3E01	Documentary Film Production	4	
MCJ3E02	Technical Writing and Documentation	4	
	SEMESTER IV		
MCJ4P01	Dissertation and Viva	8	
MCJ4C01	Film Studies	4	
MCJ4E01	Data Journalism	4	
MCJ3E02	Photo Journalism	4	
MCJ3E01	Political Economy of Indian Media		