



**Bharathiar University**  
State University  
Coimbatore, India

**Academic Programme  
Rules & Regulations**

**CBCS – 2009-2010**

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A. Note from the Vice-Chancellor's Desk:

## **B. A panoramic view by the CBCS Co-Ordinator on CBCS system**

The Indian education [(10+2) +3+2] system was originally conceived by the British regime for their needs of managing official machinery. Over the last 6 decades, this concept has diametrically changed under the name of academic freedom which led to the designing of innovative curricula. Of late Universities and autonomous institutions have evolved more in number and also in developing new curricula, designing relevant courses, framing new syllabi and introducing new evaluation methods and so on..... These are talk of the day which is prevalent in academic circle to suit the localized need. Nevertheless the required flexibility for the students to have a greater choices, of courses appropriate to their interest, short term needs and long-term goals are not available even in autonomous colleges. Infact a rather rigid and compartmentalized system is prevailing. To add further, Higher education in terms contents have undergone quite a lot of transformation over the years. For every 5 years, the question of new subjects available for studies have increased logarithmically.

Under this paradoxical condition, Choice Based Credit System (CBCS) is the solution for this type of transformation (from the traditional teacher oriented education to a student-centered education). In this system of education, students are taking responsibility for their own education. Thus, students can benefit the most from all the available resources. In fact academicians, academic commissions and policy committees such as UGC, TANSCHÉ and NAAC, recommend CBCS system of education for higher education.

In CBCS, the student has to choose the favorite programme they are interested in! But certain questions arise. Whether it is good or bad, each student are compelled to be inside the classroom for the entire six hours a day schedule leaving little scope for independent study in the library. However CBCS at our campus encourages the students to avail library facilities apart from the 6 hours schedule/day.

Student point of view, these are the following questions often we encounter! Why can't a student earn a few credits from one department and transfer the credits to some other department? Why not obtain different credits from different departments to attain Master degree in any discipline? Why not a student who is working on a part-time basis earns a few credits and stretch his studies to more than two years according to his convenience? Why is there a kind of compulsion to complete a degree programme in two years? Why is there no provision to change the department after earning a few credits? Why unit courses of a programme should have varying credits ranging from 2-8 depending upon the depth of subject? Why not a few credits earned in a related industry/commercial institution be considered within the curriculum? As creative and performing arts are becoming popular in campus, credits can be thought of for such activities too! Over these questions, faculty involved in several programmes meet at least three times in a semester to thrashout problems encountered by the students under the Chairmanship of the Vice-Chancellor.

As on date the students will choose courses of inter-disciplinary nature and the required programme for majoring in a subject. Professionalism and quality consciousness are the basis of CBCS. With faculty advising, CBCS can offer a very flexible and open system for quality up-gradation in higher education. Bharathiar University stands in the forefront in this venture.

We seek the cooperation of faculty, professionals of Industry/Institute and students to achieve "our dream of acquiring knowledge wealth globally, but action taken locally". Please join with us in our academic pursuit.

**C. List of Departments, the Courses offered and their Co-ordinators:**

Sl. No.	Name of the Departments	Programme Offered	Name of the Programme Coordinator	Name of the HOD
1	Applied Mathematics	M.Sc. Mathematics with Computer Applications	Dr.S.P.Anjalidevi	Dr.S.P.Anjalidevi
2	Bharathiar School of Management	Master of Business Administration (MBA)	Dr.K.Malaramathi	Dr.R.Venkatapathy
3	Bioinformatics	M.Sc. Bioinformatics	Dr.P.T.V.Lakshmi	Dr.K.Swaminathan
4	Biotechnology	M.Sc. Biotechnology	Dr.V.Vijayapadma	Dr.R.Boopathy
5	Botany	M.Sc. Plant Science	Dr.T.Parimezhagan	Dr.S.Manian
6	Career Guidance and Students Welfare	M.A. Career Guidance	Dr.M.Jeyakumar	Dr.M.Jeyakumar
7	Chemistry	M.Sc. Organic Chemistry	Dr.S.P.Rajendran	Dr. K. J. Rajendraprasad
		M.Sc. Chemistry	Dr.M.Ilanchelian	
8	Commerce	M.Com., Finance & Computer Applications	Dr.S.Sudalaimuthu	Dr.G.Ganesan
		M.Sc., Finance & Computer Applications		
9	Communication & Media Studies	M.A. Journalism & Mass Communication	Dr.P.C.Thomas	Dr.P.C.Thomas
10	Computer Applications	Master of Computer Applications (MCA)	Dr.T.Devi	Dr.T.Devi
11	Computer Science	M.Sc. Computer Science	Dr.D.Mangalraj	Dr. D. Managalraj
12	Economics	M.Sc., Applied Econometrics	Dr.M.Muniyandi	Dr.M.Muniyandi
		M.A. Business Economics		
13	Educational Technology	M.Sc. Electronic Media (Education)	Dr.A.R.Bhavana	Dr.R.Ananthasayanam
		M.A. Educational Communication		
14	English	M.A. English Literature	Dr.R.Saravanaselvan	Dr.R.Palanivel
15	Environmental Sciences	M.Sc. Environmental Sciences	Dr.M.V. Usharani Dr. A. Manimekalan Dr.P. Sidduraju	Dr.C.Namachivayam
		M.Sc. Environmental Management		
16	Finance and Accounting	M.Com. Finance and Accounting	Dr.S.Sudalaimuthu	Dr.G.Ganesan
17	Genetic Engineering	M.Sc. Genetic Engineering	Dr.V.Vijayapadma	Dr.R.Boopathy
18	Information Technology	M.Sc. Information Technology	Dr.M.Sundaresan	Dr.D.Mangalraj
19	Linguistics	M.A. Linguistics	Dr.C.Sivashanmugam	Dr.C.Sivashanmugam
20	Mathematics	M.Sc. Mathematics	Dr. K.Balachandran	Dr.K.Balachandran
21	Microbial Biotechnology	M.Sc. Industrial Biotechnology	Dr.J.Angayarkanni	Dr.K.Swaminathan
22	Nanoscience and Technology	M.Sc. Nanoscience and Technology	Dr.N. Ponpandian	Dr.D.Mangalraj
23	Physical Education	M.P.Ed.,	Dr.P.Anbalagan	Dr.K. Murugavel
24	Physics	M. Sc, Physics	Dr.D.Natraj	Dr.P.Kolandaivel
25	Psychology	M.Sc. Applied Psychology	Dr. John Micheal Raj	Dr.S.Subramaniam
26	Social Work	M.S.W. - Master of Social work	Dr. F.X.Lovelinalittle Flower	Dr.A.Sethuramasubbiah
27	Statistics	M.Sc. Statistics with Computer Applications	Dr.R.Vijayaragavan	Dr.K.K.Suresh
		M.Sc. Statistics		
28	Tamil	M.A. Tamilology	Dr.O.Balakrishnan	Dr. S.M. Ravichandran
29	University Science Instrumentation	M.Sc. Electronics and Instrumentation	Dr.M.Palanisamy	Dr.M.Palanisamy
30	Women's Studies	M.A. Women's Studies	Dr.K.Mangayarkarasi	Dr.M.Jayarathinam
31	Zoology	M.Sc. Animal Biotechnology	Dr.V.Ramasubramanian Dr.S.Kannan Dr.M.Ramesh	Dr.K.Sasikala
		M.Tech. Molecular Biology & Human Genetics		
		M.Sc. Animal Science		

#### D. Department HOD's E-mail. ID

Sl. No	Name of the Departments	Name of the HOD	E-Mail ID HOD
1	Applied Mathematics	Dr.S.P.Anjalidevi	anjalidevi_s_p@yahoo.co.in
2	Bharathiar School of Management	Dr.R.Venkatapathy	rvenkatapathy@rediffmail.com
3	Bioinformatics	Dr.K.Swaminathan	kswamibiotech@gmail.com
4	Biotechnology	Dr.R.Boopathy	boopathybiotech@yahoo.com
5	Botany	Dr.S.Manian	manian_sellamuthu@yahoo.com
6	Career Guidance and Students Welfare	Dr.M.Jeyakumar	jayam11@rediffmail.com
7	Chemistry	Dr. K. J. Rajendraprasad	prasad_125@yahoo.com
8	Commerce	Dr.G.Ganesan	ganesangeetha57@yahoo.co.in
9	Communication & Media Studies	Dr.P.C.Thomas	mediastudiesbu@gmail.com
10	Computer Applications	Dr.T.Devi	tdevi5@gmail.com
11	Computer Science	Dr. D. Mangalraj	dmraj800@yahoo.com
12	Economics	Dr.B.Muniyandi	bagavathimuneesh@yahoo.com
13	Educational Technology	Dr.R.Ananthasayanam	ananth_edutech@rediffmail.com
14	English	Dr.R.Palanivelu	palnasgounder@gmail.com
15	Environmental Sciences	Dr.C.Namachivayam	cnamasivayam@yahoo.com
16	Finance and Accounting	Dr.G.Ganesan	ganesangeetha57@yahoo.co.in
17	Genetic Engineering	Dr.R.Boopathy	boopathybiotech@yahoo.com
18	Information Technology	Dr.D.Mangalraj	dmraj800@yahoo.com
19	Linguistics	Dr.C.Sivashanmugam	cssling@rediffmail.com
20	Mathematics	Dr.K.Balachandran	mathsbu@gmail.com
21	Medical Physics	Dr.P.Kolandaivel	ponkvel@hotmail.com
22	Microbial Biotechnology	Dr.K.Swaminathan	kswamibiotech@gmail.com
23	Nanoscience and Technology	Dr.D.Mangalraj	dmraj800@yahoo.com
24	Physical Education	Dr.K. Murugavel	melato_muruga@yahoo.co.in
25	Physics	Dr.P.Kolandaivel	ponkvel@hotmail.com
26	Sociology & Population Studies	Dr. N. Audinarayana	audi_bu@yahoo.co.in
27	Psychology	Dr.S.Subramanium	ssmsoma@yahoo.co.in
28	Social Work	Dr.A.Sethuramasubbiah	esores@gmail.com
29	Statistics	Dr.K.K.Suresh	sureshkk1@rediffmail.com
30	Tamil	Dr.S.M.Ravichandran	butamilravi@yahoo.com
31	University Science Instrumentation	Dr.M.Palanisamy	palaniswamybu_usic51@yahoo.com
32	Women's Studies	Dr.M.Jayarathinam	mjeya2003@yahoo.com
33	Zoology	Dr.K.Sasikala	drk_sasi@yahoo.com

### E. CBCS Course Coordinator E.mail. ID

Sl. No	Name of the Schools & Departments	Name of the Programme Coordinator	E- Mail ID Co-ordinator
1	Applied Mathematics	Dr.S.P.Anjalidevi	anjalidevi_s_p@yahoo.co.in
2	Bharathiar School of Management	Dr.K.Malarmathi	mathijj@yahoo.com
3	Bioinformatics	Dr.P.T.V.Lakshmi	lakshmiptv@yahoo.co.in
4	Biotechnology	Dr.V.Vijayapadma	vijaya_padma@yahoo.com
5	Botany	Dr.R.V.Ramakoti Reddy	drvkrreddy@yahoo.com
6	Career Guidance and Students Welfare	Dr.M.Jeyakumar	jayam11@rediffmail.com
7	Chemistry	Dr.S.P.Rajendran	rajendrersp@yahoo.com
		Dr.M.Ilancheliam	chelian73@yahoo.com
8	Commerce	Dr.S.Sudalaimuthu	sm_vcas@yahoo.com
9	Communication & Media Studies	Dr.P.C.Thomas	mediastudiesbu@gmail.com
10	Computer Applications	Dr.T.Devi	tdevi5@gmail.com
11	Computer Science	Dr.D.Mangalraj	dmraj800@yahoo.com
12	Economics	Dr.B.Muniyandi	bagavathimuneesh@yahoo.com
13	Educational Technology	Dr.A.R.Bhavana	bhavanaar@yahoo.co.in
14	English	Dr.R.Saravanaselvan	raja_saravanan@rediffmail.com
15	Environmental Sciences	Dr.M.V. Usharani Dr. A. Manimekalan Dr.P. Sidduraju	malla_drur@yahoo.com manimekalan@gmail.com rajupssad@yahoo.com
16	Finance and Accounting	Dr.S.Sudalaimuthu	sm_vcas@yahoo.co.in
17	Genetic Engineering	Dr.V.Vijayapadma	vijaya_padma@yahoo.com
18	Information Technology	Dr.M.Sundaresan	sundaresan_m@lycos.com
19	Linguistics	Dr.C.Sivashanmugam	cssling@rediffmail.com
20	Mathematics	Dr. K.Balachandran	mathsbu@gmail.com
21	Medical Physics	Dr.D. Nataraj	De.natraj@gmail.com
22	Microbial Biotechnology	Dr.J.Angayarkanni	j.angayarkanni@gmail.com
23	Nanoscience and Technology	Dr.D.Mangalraj	Npon_uom@gmail.com
24	Physical Education	Dr.P.Anbalagan	anbu_pd@yahoo.com
25	Physics	Dr.D.Natraj	De.natraj@gmail.com
26	Sociology & Population Studies	Dr. N. Audinarayana	audi_bu@yahoo.co.in
27	Psychology	Dr. John Micheal Raj	johnmichelraj@rediffmail.com
28	Social Work	Dr. F.X..Lovelinalittle Flower	fxlovely@gmail.com
29	Statistics	Dr.R.Vijayaragavan	rvijayr@yahoo.com
30	Tamil	Dr.O.Balakrishnan	balakrishnan444@gmail.com
31	University Science Instrumentation	Dr.M.Palanisamy	palaniswamybu_usic51@yahoo.com
32	Women's Studies	Dr.K.Mangayarkarasi	mangayarkarasi_k@yahoo.com
33	Zoology	Dr.V.Ramasubramanian	vraman68@rediffmail.com
		Dr.S.Kannan	skanmbt2008@yahoo.co.in
		Dr.M.Ramesh	mathanramesh@yahoo.com

### F. Strength of Students in different departments

Sl. No.	Name of the Schools & Departments	Programme Offered	I year 2009-2010	II year 2008-2009
1	Applied Mathematics	M.Sc. Mathematics with Computer Applications	31	24
2	Bharathiar School of Management	Master of Business Administration (MBA)	123	122
3	Bioinformatics	M.Sc. Bioinformatics	18	17
4	Biotechnology	M.Sc. Biotechnology	15	16
5	Botany	M.Sc. Plant Science	19	18
6	Career Guidance and Students Welfare	M.A. Career Guidance	--	--
7	Chemistry	M.Sc. Organic Chemistry	12	13
		M.Sc. Chemistry	16	14
8	Commerce	M.Com., Finance & Computer Applications	28	--
		M.Sc., Finance & Computer Applications	--	38
		M.Com., Finance & Accounting	27	--
9	Communication & Media Studies	M.A. Journalism & Mass Communication	7	20
10	Computer Applications	Master of Computer Applications (MCA)	115	104
11	Computer Science	M.Sc. Computer Science	--	35
12	Economics	M.Sc., Applied Econometrics	--	--
		M.A. Business Economics	29	20
13	Educational Technology	M.Sc. Electronic Media	8	--
		M.A. Educational Communication	--	--
14	English	M.A. English Literature	30	40
15	Environmental Sciences	M.Sc. Environmental Sciences	19	17
		M.Sc. Environmental Management	--	08
16	Finance and Accounting	M.Com. Finance and Accounting	26	--
17	Genetic Engineering	M.Sc. Genetic Engineering	--	18
18	Information Technology	M.Sc. Information Technology	38	38
19	Linguistics	M.A. Linguistics		
20	Mathematics	M.Sc. Mathematics	38	26
21	Medical Physics	M.Sc. Medical Physics	--	--
22	Microbial Biotechnology	M.Sc. Industrial Biotechnology	17	19
23	Nanoscience and Technology	M.Sc. Nanoscience and Technology	20	20
24	Physical Education	M.P.Ed.,	38	45
25	Physics	M. Sc, Physics	20	19
26	Sociology & Population Studies	M.A. Population Studies	--	--
		M.A. Sociology	--	--
27	Psychology	M.Sc. Applied Psychology	28	32
28	Social Work	M.S.W. - Master of Social work	48	42
29	Statistics	M.Sc. Statistics with Computer Applications	21	08
		M.Sc. Statistics	16	17
30	Tamil	M.A. Tamilology	20	13
31	University Science Instrumentation	M.Sc. Electronics and Instrumentation	32	8
32	Women's Studies	M.A. Women's Studies	06	--
33	Zoology	M.Sc. Animal Biotechnology	18	16
		M.Tech. Molecular Biology & Human Genetics	20	16
		M.Sc. Animal Science	18	18

## G. ELIGIBILITY FOR DIFFERENT COURSES

DEPARTMENT	COURSE	ELIGIBILITY
<b>Bharathiar School of Management &amp; Entrepreneur Development</b>		
Management	Master Business Administration (MBA)	A pass in any UG Degree with TANCET Marks
<b>School of Biotechnology &amp; Genetic Engineering</b>		
Bio-technology	M.Sc. Bio-Technology	A pass in B.Sc. in any Life Sciences such as Biology /Biochemistry / Polymer Chemistry / Chemistry with Biology ancillary / Biotechnology / Microbiology / Zoology / Botany / Plant Science / Plant Biotechnology / Animal Science / Animal Biotechnology / Industrial Chemistry / B.Pharm. / Applied Microbiology / Medical Microbiology / Human Genetics / Medical Genetics / Molecular Biology / Gene Technology, Environmental Sciences / Environmental Biotechnology / Genetics Engineering / Bio-informatics / Plant Biology and Plant Biotechnology / Animal Science and Biotechnology / Agriculture / B.E. / M.B.B.S./ B.Tech. Bio Technology/ Industrial Bio Technology/ Bio Medical Engineering / B.V.Sc./ B.S.M.S Siddha of any UGC recognized Universities.
Microbial Bio-Technology	M.Sc. Industrial Bio-Technology	A pass in any one of the following degree courses of UGC recognized Universities with 50% of marks (45% for candidates belonging to SC/ST). B.Sc. Agricultural / Animal Biotechnology / Microbiology / Animal Science / Applied Science / B.Tech-Biotech / Biochemistry / Bioinformatics / Biology / Biotechnology Botany / Environmental Science / Food science / Forestry / Horticulture / Medical Sciences – MBBS / BDS / B.V. Sc. and B. Sc. Microbiology Pharmacy / Plant Biotechnology /Plant Science /Zoology / Biochemistry.
Genetic Engineering	M.Sc. Genetic Engineering	A pass in B.Sc. in any Life Sciences such as Biology /Biochemistry / Polymer Chemistry / Chemistry with Biology ancillary / Biotechnology / Microbiology / Zoology / Botany / Plant Science / Plant Biotechnology / Animal Science / Animal Biotechnology / Industrial Chemistry / B.Pharm. / Applied Microbiology / Medical Microbiology / Human Genetics / Medical Genetics / Molecular Biology / Gene Technology, Environmental Sciences / Environmental Biotechnology / Genetics Engineering / Bio-informatics / Plant Biology and Plant Biotechnology / Animal Science and Biotechnology / Agriculture / B.E. / M.B.B.S./ B.Tech. Bio Technology/ Industrial Bio Technology/ Bio Medical Engineering / B.V.Sc./ B.S.M.S Siddha of any UGC recognized Universities.
<b>School of Chemical Sciences</b>		
Chemistry	M.Sc. Chemistry	A pass in B.Sc. Chemistry with Mathematics and Physics ancillary subject
	M.Sc. Organic Chemistry	A pass in B.Sc. Chemistry with Mathematics and Physics ancillary subject
<b>School of Commerce</b>		
Commerce	M.Com. Finance & Computer Applications	A graduate in Commerce, Business Management, Administration, Bank Management, Corporate Secretaryship and Commerce & Computer Applications, Business Management, Administration & Computer Applications and Commerce &

		Computer Application, E-Commerce or an equivalent qualification. (or) A graduate in Computer Science, Computer Applications, Computer Technology, Information Technology, Computer Engineering, Information Science or an equivalent qualification.
	M.Com. Finance & Computer Applications	A graduate in Commerce, Business Management, Administration, Bank Management, Corporate Secretaryship and Commerce & Computer Applications, Business Management, Administration & Computer Applications and Commerce & Computer Application, E-Commerce or an equivalent qualification. (or) A graduate in Computer Science, Computer Applications, Computer Technology, Information Technology, Computer Engineering, Information Science or an equivalent qualification.
Finance & Accounting	M.Sc., Finance& Accounting	A pass in B.Com, B.Com (CA), B.Com (e-com), BBA, BBM, BBA/BBM (CA), B.Com (Corporate Secretaryship), B.Com(Corporate Secretaryship) with CA,BCS,BCS CA, B.A. (Corporate Secretaryship), B.A. Corporate Secretaryship with CA, B.Sc Computer Science and BCA.
<b>School of Computer Science &amp; Engineering</b>		
Computer Applications	M.C.A.	A Pass in B.Sc. Computer Science / B.C.A. /B.Sc. Computer Technology / B.Sc. Information Technology / B.Sc. Software Systems) B.Sc. degree with Electronics.
	M.C.A. (S.S)	A Pass in B.Sc. Computer Science / B.C.A. /B.Sc. Computer Technology / B.Sc. Information Technology / B.Sc. Software Systems) B.Sc. degree with Electronics.
Computer Science	M.Sc. Computer Science	A Pass with II class (50% of marks) in B.Sc. Computer Science / B.C.A. / B.Sc. Computer Technology / B.Sc. Information Technology / B.Sc. Software Systems B.Sc. degree with Electronics. In case of SC/ST candidates a mere pass in any of the above Bachelor's degree will be sufficient.
Information Technology	M.Sc. Information Technology	Any UG Degree in Computer Science / any Degree pass in any UG Degree with Maths or Maths in +2
<b>School of Economics</b>		
Economics	M.A. Business Economics	Any graduate with Economics/ Econometrics/ Statistics/Mathematics/ Business Economics /Commerce / Management as one of the papers
	M.Sc. Applied Economics	Any Graduate of recognized University with Mathematics / Statistics / Economics / Econometrics as one of the subject of study
<b>School of Educational Studies</b>		
Educational Technology	M.A. Educational Communication	A pass in any UG degree
	M.Sc. Electronic Media (Edu.)	A pass in any UG degree
Communication & Media Studies	M.A. Journalism & Mass Communication	A Pass in Any UG Degree
Physical Education	M.P.Ed.	Candidates with B.P.Ed. / B.P.E. / B.P.E.S. Course (or its equivalent) of 3 years duration with atleast 50 % of marks.
<b>School of English and other Foreign Languages</b>		
Linguistics	M.A. Linguistics	Any Bachelor's degree in Arts / Science or B.Litt. Preference will be given to graduates with Part III language in (Tamil/ English / Malayalam / Kannada / Telugu etc.)
Women's Studies	M.A. Women's Studies	A pass in any UG degree
English	M.A. English Literature	B.A. English Literature / any graduate who must have done two papers in English under the non –

		semester system or 4 papers in English under the Semester system <u>For Chinese Students</u> A four Year UG programme in China with English as major or a three year diploma in China plus a one year UG programme in any of the recognized Universities.
<b>School of Life Sciences</b>		
Zoology	M.Sc. Animal Science	A pass in B.Sc. Zoology / Advanced Zoology / Applied Zoology / Life Sciences / Animal Science and Biotechnology / Advanced Zoology and Biotechnology .
	M.Sc. Animal Bio-Technology	A pass in B.Sc. in Zoology / Biotechnology / Biochemistry /Microbiology/ Genetics / Environmental Science / Advanced Zoology and Biotechnology / Applied Zoology / Animal Science and Biotechnology /Life Sciences / Environmental Zoology
	M.Tech. Molecular Biology and Human Genetics	A pass in B.E. Industrial Biotechnology / Biotechnology / B.Tech. Biotechnology / Genetic Engineering /Industrial Biotechnology M.Sc. Zoology / Animal Science / Animal Biotechnology / Life Sciences / Genetics / Industrial Biotechnology / Advanced Zoology / Applied Zoology / Animal Science and Biotechnology / Life Sciences / Biotechnology / Bioinformatics / Biochemistry / Microbiology / Molecular Biology / Molecular Biology / Marine Biology / Genetic Engineering / Genetics / Physiology / Immunology / Marine Biology & Biotechnology / Wildlife Biology / Advanced Zoology & Biotechnology
Bioinformatics	M.Sc. Bioinformatics	A pass in any one of the following degree course of UGC recognized Universities with 50% marks (45% for candidates belonging to SC/ST) B.Sc. Agriculture / Animal Biotechnology /Animal Science /Applied Science / B.Tech Biochemistry/Bioinformatics/Biology/Biotechnology Botany/ Chemistry/computer application/computer science/Electronics/Environmental Science /Food Science / Forestry /Horticulture/Information Technology/ Maths /Medical Service /MBBS/BDS/BVSC/Microbiology/Pharmacy/Physics/Plant Biotechnology/Plant science/Statistics Zoology
Environmental science	M.Sc. Environmental Sciences	The candidate should have passed B.Sc. degree in Science of Bharathiar University or from any other recognized University as equivalent thereof
Botany	M.Sc. Plant Sciences	A pass in B.Sc. Botany / Plant Biology and Plant Biotechnology.
<b>School of Mathematics and Statistics</b>		
Mathematics	M.Sc. Mathematics	A pass in B.Sc. Mathematics of Bharathiar University or any other University recognized by the Bharathiar University or equivalent thereof. (or) A pass in B.Sc. Mathematics with Computer Applications of Bharathiar University or any other University recognized by the Bharathiar University or equivalent thereof .
Applied Mathematics	M.Sc. Mathematics with Computer Application	A pass in B.Sc. Mathematics or Mathematics with Computer Applications
Statics	M.Sc. Statistics M.Sc. Statics with Computer Applications	A pass in B.Sc. Statistics, B.Sc. Mathematics and B.Sc. Mathematics with Computer Application along with Statistics as one paper.
<b>School of School of Physical Sciences</b>		
Physics	M.Sc. Physics	A pass in B.Sc. Physics with Mathematics and Chemistry as the allied subjects.

		A pass in B.Sc. Physics with Computer application having Mathematics as one of the allied subjects.
Nano-Science and Technology	M.Sc. Nano-Science and Technology	A pass in B.Sc. Physics / B.Sc. Chemistry/ Bio Technology / Bio Chemistry / Microbiology with Mathematics as one of the Subject atleast at the + 2 level .
University Science Instrumentation	M.Sc. Electronics and Instrumentation	A pass in B.Sc. Electronics Industrial Electronics / Electronic Science / Electronics and communication Systems / Physics / Applied Science Computer Science / BCA / B.Sc. Hons / B. Sc. Electrical Equipment Maintenance, Instrumentation / B.E.S.
<b>School of Social Sciences</b>		
Sociology & Population Studies	M.A. Sociology	A pass in any UG degree
	M.A. Population	A pass in any UG degree
Social Work	Master of Social Work (MSW)	Any degree with English as II Language
Psychology	M.Sc. Applied Psychology	A pass in UG degree in Psychology or any other social science subject
Extension and Career Guidance	M.A. Career Guidance	A pass in any UG Degree
<b>School of Tamil and other Indian Languages</b>		
Tamil	M.A. Tamilology	Any UG degree with Part-I Tamil

**H. Scheme of Examination for Various programme**  
**DEPARTMENT OF ECONOMICS**  
**M.A. Business Economics**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total (%)	Credit
I	08ECOB13A	Business Economics	4	25	75	100	4
	08ECOB13B	Economics of Development	4	25	75	100	4
	08ECOB13C	Quantitative Methods for Managerial Decision	4	25	75	100	4
	08ECOB1EA	Elective: Indian Economy	4	25	75	100	4
		Supportive - I	2	25	75	50	2
	08ECOB1LA	Business information and Database System	4	25	75	100	4
II	08ECOB23A	Macro Economics Theory and Policies	4	25	75	100	4
	08ECOB23B	Public Finance	4	25	75	100	4
	08ECOB23C	Econometrics	4	25	75	100	4
	08ECOB2EB	Elective: Environmental Economics	4	25	75	100	4
		Supportive II	2	25	75	50	2
	08ECOB2LB	Information System and Management	4	25	75	100	4
III	08ECOB33A	Research Methodology and Statistics	4	25	75	100	4
	08ECOB33B	International Economics	4	25	75	100	4
	08ECOB33C	Monetary Theory and Policies	4	25	75	100	4
	08ECOB3EC	Elective: Operation Research	4	25	75	100	4
		Supportive III	2	25	75	50	2
	08ECOB3LC	Developing Information System	4	25	75	100	4
IV	08ECOB43A	Economics of Farm Business	4	25	75	100	4
	08ECOB43B	Industrial Productivity Theory and Measurement	4	25	75	100	4
	08ECOB43C	Economics of Infrastructure	4	25	75	100	4
	08ECOB47V	Research Project	6	25	75	150	6
		Supportive IV	2	25	75	50	2
	08ECOB4LD	Information Technology	4	25	75	100	4

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF ECONOMICS**  
**M.A. Applied Econometrics**

Sem	Code No.	Subjects	Credit Hours	University Examination			
				Internal (%)	External (%)	Total (%)	Credit
I	08ECOC13A	Basic Mathematical Methods	4	25	75	100	4
	08ECOC13B	Statistical Methods	4	25	75	100	4
	08ECOC13C	Information Technology	4	25	75	100	4
	08ECOC1EA	Elective course: Managerial Economics	4	25	75	100	4
		Supportive – I	2	25	75	50	2
	08ECOB1LA	Business information and Database System	3	25	75	100	4
II	08ECOC23A	Mathematical Economics	4	25	75	100	4
	08ECOC23B	Macro Economics	4	25	75	100	4
	08ECOC23C	Basic Econometrics Methods with CA	4	25	75	100	4
	08ECOC2EB	Elective: Operation Research	4	25	75	100	4
		Supportive II	2	25	75	50	2
	08ECOB2LB	Information System and Management	3	25	75	100	4
III	08ECOC33A	Advanced Econometrics	4	25	75	100	4
	08ECOC33B	Growth and Development	4	25	75	100	4
	08ECOC33C	Financial Econometrics	4	25	75	100	4
	08ECOC3EC	Elective: Industrial Economics	4	25	75	100	4
		Supportive III	2	25	75	50	2
IV	08ECOB3LC	Developing Information System	3	25	75	100	4
	08ECOC43A	Applied Econometrics	4	25	75	100	4
	08ECOC43B	Public Economics	4	25	75	100	4
	08ECOC43C	Economics of Human Recourses	4	25	75	100	4
	08ECOC47V	Research Project	6	25	75	150	6
			Supportive – IV	2	25	75	50
	08ECOB4LD	Information Technology	3	25	75	100	4

**Total Marks: 2250**

**Credits: 90**

**Note:** Course codes for the courses offered under PG Diploma Management Information System are common for M.A., (Business Economics) and M.Sc. (Applied Econometrics)

**DEPARTMENT OF COMMUNICATION & MEDIA STUDIES**  
**M.A. Journalism & Mass Communications**

Semester I	Code	Subject	Internal	External	Total	Credits
	09MCC01	Communication Models & Theories	25	75	100	4
	09MCC02	Media Laws and Ethics (Print, Broadcasting, Film, Cyber Media)	25	75	100	4
	09MCC03	Reporting and Editing	25	75	100	4
	09MMC04	Editorial Practice (Practical I)	12	38	50	2
	09MCE05	Indian Constitution	12	38	50	2
		Subject chosen by the students	12	38	50	2
	09MCD01	Market Research & SPSS Application	25	75	100	4
Semester II						
	09MCC06	Advertising and Public relations	25	75	100	4
	09MCC07	Design Principles and Visual Culture	25	75	100	4
	09MCC08	Media, Society and Culture	25	75	100	4
	09MCC09	Design Principles and Application (Practical II)	25	75	100	4
	09MCE10	Printing and packaging	25	75	100	4
		Subject chosen by the students	12	38	50	2
	09MCD01	Marketing Communication	25	75	100	4
Semester III						
	09MCC11	Film studies & Photography	25	75	100	4
	09MCC12	Broadcasting (Radio & Television)	25	75	100	4
	09MCC13	Term paper (Specialisation)	50	Nil	50	2
	09MCC16	Photography and Audio Visual (Practical III)	25	75	100	4
	09MCE15	Content and Technical writing	25	75	100	4
		Subject chosen by the students	12	38	50	2
	09MCD03	Event Management	25	75	100	4
Semester IV						
	09MCC16	New Media Studies	25	75	100	4
	09MCC17	Project Study			150	6
	09MCD04	Market Research (Minor Project study)	100		100	4
		Internships II	100		100	4

**Total Marks: 2250**

**Credits: 90**

**DEPARTEMNT OF UNIVERSITY SCIENCE INSTRUMENTATION CENTRE**  
**M.Sc., Electronic and Instrumentation**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08ELI13A	Sensors and Trasducers	4	25	75	100	4
	08 ELI 13B	Linear and Digital IC's	4	25	75	100	4
	08 ELI 13C	Embedded System and RTOS	4	25	75	100	4
	08 ELI 1EA	Elective I	4	25	75	100	4
	081GS __	Supportive-I	3	25	75	50	2
	08 ELI 1LA	Bioinstrumentation	4	25	75	100	4
II	08 ELI 23A	Control System	4	25	75	100	4
	08 ELI 23B	Computer Aided instrumentation	4	25	75	100	4
	08 ELI 23C	Signals and systems	4	25	75	100	4
	08 ELI 2EB	Elective II	4	25	75	100	4
	082GS __	Supportive-II	3	25	75	50	2
	08 ELI 23P	Instrumentation lab	4	25	75	100	4
	08 ELI 23Q	Embedded system Lab	4	25	75	100	4
	08ELI 2LB	Medical Imaging system	4	25	75	100	4
	III	08 ELI 33A	Process control	4	25	75	100
08 ELI 33B		Digital signal Processing	4	25	75	100	4
08 ELI 33C		Intelligent Instrumentation	4	25	75	100	4
08 ELI 3EC		Elective III	4	25	75	100	4
083GS __		Supportive-III	3	25	75	50	2
08 ELI 33P		Digital signal Processing Lab	3	25	75	75	3
08 ELI 33P		Intelligent Instrumentation Lab	3	25	75	75	3
08ELI 3LC		Therapeutic Equipments	4	25	75	100	4
IV	08ELI47V	Project Work				150	6
	08ELI 4LD	Medical Electronics Lab	4	25	75	100	4

**Total Marks: 2250**

**Credits: 90**

**DEPARTEMNT OF ENGLISH AND FOREIN LANGUAGES**  
**M.A. English Literature**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08ENGA13A	Chaucer & Elizabethan Age	6	25	75	100	4
	08ENGA13B	The Neo-Classical Age	6	25	75	100	4
	08ENGA 13C	The Romantic Age & The Victorian Age	6	25	75	100	4
	08ENGA 13D	Basics of communication	6	25	75	100	4
	08ENGA1EA	Elective-I Thinking and cognition	6	25	75	100	4
	081GS __	Supportive-I	3	25	75	50	2
II	08ENGA23A	20th Century British Literature	6	25	75	100	4
	08ENGA 23B	American Literature	6	25	75	100	4
	08ENGA23C	Indian Writing In English & Commonwealth Literature	6	25	75	100	4
	08ENGA23D	Language & Linguistics	6	25	75	100	4
	08ENGA23D	Lectures and Note taking	6	25	75	100	4
	08ENGA2EA	Elective II: Literature; analysis, approaches and applications	6	25	75	100	4
	082GS __	Supportive-II	3	25	75	50	2
III	08ENGA33A	Copy Editing	6	25	75	100	4
	08ENGA33B	Shakespeare	6	25	75	100	4
	08ENGA33C	Elt Or Call	6	25	75	100	4
	08ENGA33D	Literary Theory Or Criticism	6	25	75	100	4
	08ENGA33E	Speaking for academic purposes	6	25	75	100	4
	08ENGA3EC	Elective: III Public speaking, Journalistic and Creative writing	6	25	75	100	4
	083GS __	Supportive-III	3	25	75	50	2
IV	08ENGA43A	Soft Skills Through Literature	6	25	75	100	4
	08ENGA43B	Reference/ Research skills	6	25	75	100	4
	084GS __	Supportive. IV	3	25	75	50	2
	08ENGA47V	Project Work				150	6

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF LINGUISTICS**  
**M.A. Linguistics**

NO	COURSE CODE	CORE PAPER TITLE	CREDIT	MARKS
1	LINB01	Phonetics and phonology	4	100
2	LINB02	Morphology and Syntax	4	100
3	LINB03	Historical and Comparative Linguistics	4	100
4	LINB04	Language and Communication	4	100
5	LINB05	Sociolinguistics and Dialectology	4	100
6	LINB06	Language Teaching Methods	4	100
7	LINB07	Translation Theory and Practice	4	100
8	LINB08	Development of Language for Science	4	100
9	LINB09	Computational Linguistics	4	100
10	LINB10	Field Linguistics	4	100
11	LINB11	Project work and Viva voce	10	250

NO	COURSE CODE	ELECTIVE PAPER	CREDIT	MARKS
1	LINGE01	Introduction to Language structure and Language use	4	100
2	LINGE02	History of Tamil Language	4	100
3	LINGE03	Language, Culture and Society	4	100
4	LINGE04	Basic Linguistics	4	100
5	LINGE05	Computational Linguistics	4	100

NO	COURSE CODE	SUPPORTIVE PAPER	CREDIT	MARKS
1	LINGS01	Basic Phonetics	2	50
2	LINGS02	Basic of Translation	2	50
3	LINGS03	Introduction to Dravidian Language	2	50
4	LINGS04	Language for Special purpose	2	50
5	LINGS05	Dictionary making	2	50

NO	COURSE CODE	DIPLOMA COURSE PAPER	CREDIT	MARKS
1	LINGD01	Speaking & writing skills-I	4	100
2	LINGD02	Listening & Reading skills-I	4	100
3	LINGD03	Speaking & writing skills-II	4	100
4	LINGD04	Listening & Reading skills-II	4	100

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF TAMIL**  
**M.A. Tamilology**

Sem	Code No.	Subject	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	07TAMC01	Tholkapiyam -Ezlutheal	4	25	75	100	4
	07TAMC01	Bakthi Ilakkiyam	4	25	75	100	4
	07TAMC01	Ikkala Ilakkiyam	4	25	75	100	4
		Diploma Paper I: Ethalial	3	25	75	100	4
		Elective: I		25	75	100	4
		Supportive I	2	12	38	50	3
II	07TAMC04	Tholkapiyam -Solliyal	4	25	75	100	4
	07TAMC05	Sanga Ilakkiyam	4	25	75	100	4
	07TAMC06	Sitirilakkiyangal	4	25	75	100	4
		Diploma Paper II:Thagaval Thodarpial	3	25	75	100	4
		Elective II	4	25	75	100	4
		Supportive II	2	12	38	50	2
III	07TAMC07	Tholkappiam: Porulial	4	25	75	100	4
	07TAMC08	Kappiyamum Puranamum	4	25	75	100	4
	07TAMC09	Ilakkiya Thiranaiviyal	4	25	75	100	4
		Diploma Paper III-Thagaval Thodarbin Mozhiyamippum Mozhippayanpadum	3	25	75	100	4
		Elective III	4	25	75	100	4
		Supportive III	2	12	38	50	2
IV	07TAMC010	Nattupuraviyal	4	25	75	100	4
	07TAMC011	Neethi Ilakkiyam	4	25	75	100	4
	07TAMC012	Yappiyal Aniyiyal	4	25	75	100	4
		Diploma Paper :IV- Kanini Achukkoppiyal (D.T.P.)	3	25	75	100	4
		Supportive III	2	12	38	50	2
		Ayivedu				150	6
<b>Total Marks: 2250</b>				<b>Credits: 90</b>			

**DEPARTMENT OF WOMEN STUDIES**

**M.A. Women Studies**

Paper	Paper code	Course Title	Credits	Marks		
				CIA	ESE	Total
<b>Semester I Core paper</b>						
I	WSTAC01	Introduction to Women's Studies	4	25	75	100
II	WSTAC02	Feminist Theories	4	25	75	100
III	WSTAC03	Feminist Research Methodology	4	25	75	100
D1	07SOCAPGD01	Sociology of Industry	4	40	60	100
EI	WSTAE01	Gender and Society (Elective )	4	25	75	100
		Supportive	2	20	30	50
		Observation visit to organization				
<b>Semester II Core Paper</b>						
IV	WSTAC04	Problems of Women and their Perspectives	4	25	75	100
V	WSTAC05	Women and Health	4	25	75	100
VI	WSTAC06	Statistical Methods and Computer Applications	4	25	75	100
D2	07SOCAPGD02	Industrial Relations and Trade Unionism	4	40	60	100
E2	WSTAE02	Women and Media (Elective)	4	25	75	100
		Supportive *	2	20	30	50
		Internship				
<b>Semester III Core Paper</b>						
VII	WSTAC07	Women and Law	4	25	75	100
VIII	WSTAC08	Environment and Women	4	25	75	100
IX	WSTAC09	Women and Development	4	25	75	100
D3	07SOCAPGD03	Labour welfare, Social Security and Legislative Measures	4	40	60	100
E3	WSTAE03	Women and Entrepreneurship (Elective)	4	25	75	100
		Field work	4	60	40	100
		Supportive*	2	20	30	50
<b>Semester IV Core paper</b>						
X	WSTAC01	Globalization and Women	4	25	75	100
XI	WSTAC11	NGO Management	4	25	75	100
P1	WSTAP01	Project and Viva Voce	8	200	--	200
DP2	07SOCAPGDP04	Project/Viva Voce	4	40	60	100

**Total Marks: 2250**

**Credits: 90**

CIA-Continuous internal Assessment

ESE-End Semester Examination

\* Students are expected to choose supportive course offered in other departments

P.G Diploma- Industrial Relations and Labour Welfare paper code-

07SOCAPGD01 to 07SOCAPGD04

**DEPARTMENT OF EDUCATIONAL TECHNOLOGY**  
**M.Sc., Electronic Media (Education)**

Sem	Paper code	Name of the Paper	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	07EDUBC01	<b>Core – Theory</b> Psychology of Learning	4	25	75	100	4
	07EDUBC02	Educational Technology and Communication	4	25	75	100	4
	07EDUBC03	Scriptwriting and Audio Video Production	4	25	75	100	4
		<b>Core – Practical</b>					
	07EDUBP01	Scriptwriting and Audio Video Production	8	25	75	100	4
		Elective I	4	25	75	100	4
		Supportive I	2	25	75	50	2
		<b>PG – Diploma</b>					
	Paper I	Educational Technology	4	25	75	100	4
	II		<b>Core – Theory</b>				
07EDUBC04		Research Methods and Statistics	4	25	75	100	4
07EDUBC05		Instructional Technology	4	25	75	100	4
07EDUBC06		Digital video and Editing in Avid	4	25	75	100	4
		<b>Core – Practical</b>					
07EDUBP02		Instructional Designing in Flash & Digital Video Editing in Avid	8	25	75	100	4
		Elective II	4	25	75	100	4
		Supportive II	2	25	75	50	2
		<b>PG – Diploma</b>					
Paper II		Systems Approach to Instructional media	4	25	75	100	4
III		<b>Core – Theory</b>					
	07EDUBC07	E-Learning Management Systems	4	25	75	100	4
	07EDUBC08	Graphics and Animation	4	25	75	100	4
	07EDUBC09	Web Designing-HTML, Dream weaver and JavaScript	4	25	75	100	4
		<b>Core – Practical</b>					
	07EDUBP03	Web Designing	8	25	75	100	4
		Elective III	8	25	75	100	4
		Supportive III	2	25	75	50	2
		<b>PG – Diploma</b>					
	Paper III	Educational Video Production	4	25	75	100	4
IV		<b>Internship</b>					
	07EDUBS01	Internship & project work	-	25	75	200	8
		<b>PG – Diploma</b>					
Paper IV	Computer Based Instruction	4	25	75	100	4	

**Total Marks : 2250**

**Credits: 90**

**DEPARTMENT OF EDUCATIONAL TECHNOLOGY**  
**M.A Educational Communication**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08EDUB13A	Psychology of Learning	4	25	75	100	4
	08EDUB13B	Educational Technology and Communication	4	25	75	100	4
	08EDUB13C	Scriptwriting and Audio-Video Production	4	25	75	100	4
	08EDUB13P	Scriptwriting and Audio-Video Production –Practical	8	25	75	100	4
	08EDUB1EA	Elective I	4	25	75	100	4
	081GS__	Supportive I	2	25	75	50	2
	08EDUB1LA	Education Technology	4	25	75	100	4
II	08EDUB23A	Research Methods and Statistics	4	25	75	100	4
	08EDUB23B	Instructional Technology	4	25	75	100	4
	08EDUB23C	Digital Video Editing in Avid	4	25	75	100	4
	08EDUB23P	Instructional designing in Flash and Digital video Editing in Avid -Practical	8	25	75	100	4
	08EDUB2EB	Elective II	4	25	75	100	4
	082GS__	Supportive II	2	25	75	50	2
	08EDUB2LB	Systems approach to instructional Media	4	25	75	100	4
III	08EDUB33A	Curriculum: Principles and Foundations	4	25	75	100	4
	08EDUB33B	Introduction to E- Learning	4	25	75	100	4
	08EDUB33C	Web Designing: HTML, Dreamweaver	4	25	75	100	4
	08EDUB33P	Web Designing - Practical	8	25	75	100	4
	08EDUB3EC	Elective III	4	25	75	100	4
	083GS__	Supportive III	2	25	75	50	2
	08EDUB3LC	Educational Video production	4	25	75	100	4
IV	08EDUB47V	Internship and Project work	-	25	75	200	8
	08EDUB4LD	Computer Based Instruction	4	25	75	100	4

**Total Marks: 2250**

**Credits: 90**

\*Exam conducted for 100 marks and converted to 50 marks.

**DEPARTMENT OF PSYCHOLOGY**  
**M.Sc., Applied Psychology**

Sem	Code No.	Subjects	Class Hours	University Examination				
				Internal (%)	External (%)	Total	Credit	
I	08PSYB13A	Psychometry and Research Methodology	6	25	75	100	4	
	08PSYB13B	Health Psychology	6	25	75	100	4	
	08PSYB13C	Organizational Behavior	6	25	75	100	4	
	08PSYB13D	Experimental Psychology	6	25	75	100	4	
	08PSYB13E	Principles & Practices managements	4	25	75	100	4	
	08PSYB1EA	Elective I	6	25	75	100	4	
	081GS __	Supportive I	2	25	75	50	2	
	08PSYB1LA	Human Relations in Industry	4	25	75	100	4	
	II	08PSYB23A	Advance social psychology	6	25	75	100	4
		08PSYB23B	Personality research and applications	6	25	75	100	4
08PSYB23C		Human Resource managements	6	25	75	100	4	
08PSYB23D		Experimental Psychology-II	6	25	75	100	4	
08PSYB23E		Occupational health, safety and welfare	6	25	75	100	4	
08PSYB23F		Training and development	6	25	75	100	4	
08PSYB2EA		Elective II	6	25	75	100	4	
082GS __		Supportive II	2	25	75	50	2	
08PSYB2LB		Paper II	4	25	75	100	4	
III		08PSYB33A	Psychopathology & mental Hygiene	6	25	75	100	4
	08PSYB33B	Psycho diagnostics	6	25	75	100	4	
	08PSYB33C	Psychotherapeutics	6	25	75	100	4	
	08PSYB33D	Experimental Psychology-III	6	25	75	100	4	
	08PSYB33F	Organization Development	6	25	75	100	4	
	08PSYB3EA	Elective III	6	25	75	100	4	
	083GS __	Supportive III	2	25	75	50	2	
	08PSYB3LC	Paper III	4	25	75	100	4	
IV	08PSYB47V	Project Work				200	8	

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF EXTENSION AND CAREER GUIDANCE**

**M.A. Career Guidance**

SE M	Paper:Core, Elective Supportive	Subject	Class Hours	University Examination			
				Internal %	External %	Total	Credits
I	Core-I	Principles of Career Counseling	3	40	60	100	4
	Core-II	Sociological Perspectives of Education and Careers	3	40	60	100	4
	Core-III	Human Resource Management and Career Planning	3	40	60	100	4
	Elective-I	Occupational Health and Stress Management or Human Behavior	3	40	60	100	4
	Supportive-I	Would be chosen by the students from other departments	2	20	30	50	2
II	Core-IV	Aptitude Assessment and Remedial programmes	3	40	60	100	4
	Core-V	Career Preparation and Talent Management	3	40	60	100	4
	Core-VI	Web Based Career Guidance	3	40	60	100	4
	Elective-II	Remedial English Communication or Industrial Psychology	3	40	60	100	4
	Supportive-II	Would be chosen by the students from other departments	2	20	30	50	2
	Core-VII	Internship and Project Work-I				50	3
III	Core-VIII	Career Counseling Skills	3	40	60	100	4
	Core-IX	Performance Management and Career Planning	3	40	60	100	4
	Core-X	Soft Skills Management	3	40	60	100	4
	Elective-III	Organizational Behavior or Strategic Management	3	40	60	100	4
IV	Core-XI	Research Methods in Career Guidance Research	3	40	60	100	4
	Core-XII	Entrepreneurship Development	3	40	60	100	4
	Core-XIII	Global Sociology	3	40	60	100	4
	Elective-IV	Group Dynamics or Development Psychology	3	40	60	100	4
	Core-XIV	Project Work-II				50	2

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF PHYSICAL EDUCATION**  
**Master of Physical Education (M.P.Ed.,)**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08PHEA13A	Sports Management And Curriculum Design In Physical Education	4	25	75	100	4
	08PHEA13B	Sports Psychology And Sports Sociology	4	25	75	100	4
	08PHEA13C	Measurement & Evaluation In Physical Education	4	25	75	100	4
	08PHEA1EA	Elective I	4	25	75	100	4
	08PHEA13P	Athletics-Track Event-Performance Of Techniques	2	20	30	50	2
	08PHEA13Q	Games Of Choice (Other Than Specialisation) - Skill Performance	2	20	30	50	2
	08PHEA1LA	Diploma Paper I: Concepts Of Fitness	4	25	75	100	4
	081GS __	Supportive I	2	12	38	50	2
II	08PHEA23A	Research Methodology In Physical Education	4	25	75	100	4
	08PHEA23B	Statistics In Physical Education	4	25	75	100	4
	08PHEA23C	Theories Of Sports And Games Part-II	4	25	75	100	4
	08PHEA2EB	Elective II	4	25	75	100	4
	08PHEA23P	Athletics-Track Event- Coaching Ability	2	20	30	50	2
	08PHEA23Q	Games Of Choice ( Other Than Specialisation ) Coaching Ability	2	20	30	50	2
	08PHEA2LB	Introduction To Anatomy, Physiology Kinesiology & Sports Injuries	4	25	75	100	4
	082GS __	Supportive II	2	12	38	50	2
III	08PHEA33A	Exercise & Sports Physiology	4	25	75	100	4
	08PHEA33B	Methodology Sports Training	4	25	75	100	4
	08PHEA33C	Sports Biomechanics	4	25	75	100	4
	08PHEA33P	Athletics-Track Event-Performance Of Technique	2	20	30	50	2
	08PHEA33Q	Games Of Specialisation - Skill Performance	2	20	30	50	2
	08PHEA3LC	Sports Medicine	4	25	75	100	4
	08PHEA3EC	Elective III	4	25	75	100	4
	083GS __	Supportive III	2	12	38	50	2
IV	08PHEA43A	Theories Of Sports And Games Part – II	4	25	75	100	4
	08PHEA43P	Athletics-Field Event- Coaching Ability	2	20	30	50	2
	08PHEA43Q	Game Of Choice (Specialisation) Coaching Ability	2	20	30	50	2
	08PHEA47V	Dissertation				100	4

**Total Marks : 2250**

**Credits : 90**

**DEPARTMENT OF SOCIAL WORK**  
**M. S. W. Master of Social Work**

SEM	CORE ELECTIVE SUPPORTIVE PAPERS	CODE	SUBJECT	UNIVERSITY EXAMINATIONS				
				CH	IN	EX	MAX	C
I SEM	CORE-I	SWC 01	Introduction to Social work Profession	3	25	75	100	4
	CORE-II	SWC02	Methods of Working Individuals and Groups	3	25	75	100	4
	ELECTIVE	SWE01	Sociology for Social Work	3	25	75	100	4
	SUPPOTTIVE	SWS01	Would be Chosen by Students	2	20	30	50	2
	FIELD WORK	SWP01	Social Work Practicum-I Observation Visits, Group Projects Viva-Voce	3	60	40	100	4
	DIPLOMA-I	SWD01	Introduction to Counseling and Guidance	3	25	75	100	4
II SEM	CORE-II	SWC03	Community organization and Social Action	3	25	75	100	4
	CORE-IV	SWC04	Human Growth & Personality Development	3	25	75	100	4
	ELECTIVE	SWE02	Social Work Research & Statistics	3	25	75	100	4
	SUPPORTIVE	SWS02	Would be Chosen by Students	2	20	30	50	2
	FIELD WORK	SWP 02	Social work practicum – II Concurrent Field work Rural Camp & Viva voce	6	60	40	100	4
	DIPLOMA - II	SWD 02	Counseling Practice	3	25	75	100	4
III SEM	CORE - V	SEC 05 SWC06A	Social Policy and Social Legislation Labour Legislation (or)	3	25	75	100	4
	CORE - VI	SWC06B SWC06	Medical Social work (or) Community Development					
	CORE VII	SWC07A	Human Resource Management (or)	3	25	75	100	4
		SWC07B	Mental Health (or)					
		SWC07C	Welfare of the Weaker Sections					
	SUPPORTIVE	SWS03	Would be Chosen Students	2	20	30	50	2
	FIELD WORK	SWP03	Social Work Practicum-III Concurrent Field work in the Respective Specialization setting and Viva-Voce	6	60	40	100	4
	DIPLOMA - III	SWD 03	Counseling Theories	3	25	75	100	4
IV SEM	CORE - VIII	SWC 06	Digital Literacy for Social Work Practice	3			100	4
	CORE - IX	SWC 08 A	Industrial Relations & Employee Welfare (or)	3			100	4
		SWC 08 B	Psychiatric Social Work (or)					
		SWC 08 C	Corporate Social Responsibility					
	CORE -X	SWC09A	Organizational Behavior and Organizational Development (or)	3	25	75	100	4
		SWC09B	Hospital Management (or)					
		SWC09C	Management of NGOs					
	FIELD WORK	SWP04	Social work Practicum-IV Concurrent Field work in the Respective Specialization Setting	6	60	40	100	4
CORE-XI	SWP05	Research Project and Viva-Voce	3	60	40	100	4	
DIPLOMA-IV	SWD04	Counseling Techniques	3	25	75	100	4	

Total Marks: 2250

Credits: 90

**DEPARTMENT OF COMMERCE**  
**M.Com., Finance & Computer Application**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08COMC13A	Communication Skills	5	25	75	100	4
	08COMC13B	Object Oriented Programming With C++	5	25	75	100	4
	08COMC13C	Financial Accounting	5	25	75	100	4
	08COMC13D	Quantitative Techniques for Finance	5	25	75	100	4
		Any one of the Followings		25	75		
	08COMC1EA	Oracle & RDBMS	5	25	75	100	4
	08COMC1EB	Management Information Systems		25	75		
	Supportive	Offered by Other Department				100	4
	08COMC1LA	Diploma Paper I: Financial Instruments & Services	5	25	75	100	4
	II	08COMC23A	Cost & Management Accounting	5	25	75	100
08COMC23B		Visual Basic	5	25	75	100	4
08COMC23 C		Direct Taxes & Vat	5	25	75	100	4
08COMC23D		Modern Banking	5	25	75	100	4
		Any one of the Followings		25	75		
08COMC2EC		Enterprise Resource Planning	5	25	75	100	4
08COMC2ED		Insurance & Risk Management		25	75		
Supportive		Offered by other Department				100	4
08COMC2LB		P G Diploma Paper-II: Stock Market Operations	5	25	75	100	4
III		08COMC33A	Financial Management	5	25	75	100
	08COMC33B	E-Commerce	5	25	75	100	4
	08COMC33C	Java Programming & Html	5	25	75	100	4
	Elective	Any one of the Followings		25	75		
	08COMC3EE	Software Engineering	5	25	75	100	4
	08COMC3EF	International Financial Management		25	75	100	4
	Supportive	Offered by other Department				50	2
	08COMC3LC	P G Diploma Paper-III: Security Analysis & Portfolio Management	5	25	75	100	4
	08COMC3LD	P G Diploma Paper-IV: Derivatives Management	5	25	75	100	4
	IV	08COMC46A	Internship & Training				100
08COMC47V		Software Development/Project & Viva				200	8

**Total Marks: 2250**

**Credits: 90**

**Question paper pattern**

Max: 75 Marks.

Section A: Objective type questions with no choice (10 Questions)	10 x 1 = 10
Section B: Short answer questions of either / type (10 questions-2 each from every unit)	5 x 5 = 25
Section C: Essay type questions of either / or type (10 questions-2 each from every unit)	5 x 8 = 40

**DEPARTMENT OF FINANCE & ACCOUNTING**  
**M. Com., Finance & Accounting**

Sub Code	Subject Title	Max Marks	Credit Hours
<b>Semester 1</b>			
Core 1	Financial Markets and Institutions	100	4
Core 2	Financial accounting	100	4
Core 3	Direct Taxes	100	4
Core 4	Object Oriented Programming with C++	100	4
Elective	Any one of the following		
Elective 1	Marketing Management	100	4
Elective 2	Financial Services	100	4
Supportive	Offered by Other Department	50	2
	P.G. Diploma Paper I - Financial Instruments and Services	100	4
<b>Semester II</b>	Total	650	26
Core 5	Applied Cost accounting	100	4
Core 6	Financial Management	100	4
Core 7	Computerized Accounting with Tally	100	4
Core 8	Advanced Accounting	100	4
Elective	Any one of the following		
Elective 3	International Financial Management	100	4
Elective 4	Modern banking and insurance	100	4
Supportive	Offered by Other Department	50	2
	P.G. Diploma Paper II - Stock Market Operations	100	4
<b>Semester III</b>	Total	650	26
Core 9	Indirect Taxation	100	4
Core 10	Business Research Methods	100	4
Core 11	Management Accounting	100	4
	Any one of the following		
Elective 5	Visual Basic	100	4
Elective 6	E-Commerce	100	4
Supportive	Offered by Other Department	50	2
	P.G. Diploma Paper III - Security Analysis and Portfolio Management	100	4
	P.G Diploma Paper IV - Derivatives Management	100	4
<b>Semester IV</b>	Total	650	26
Core 12	Internship & Training	100	4
Core 13	Project & Viva	200	8
	Total	300	12

**Total Marks: 2250**

**Credits : 90**

Question paper pattern

Max: 75 Marks.

Section A: Objective type questions with no choice

(10 Questions) 10 x 1 = 10

Section B: Short answer questions of either / type

(10 questions-2 each from every unit) 10 x 1 = 10

Section C: Essay type questions of either / or type

(10 questions-2 each from every unit) 5 x 8 = 40

**SCHOOL OF MANAGEMENT**  
**Master of Business Administration (MBA)**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08MBAA13A	Management Principles & Practice	4	25	75	100	4
	08MBAA13B	Organizational Behaviour	4	25	75	100	4
	08MBAA13C	Managerial Economics	4	25	75	100	4
	08MBAA13D	Financial & Management Accounting	4	25	75	100	4
	08MBAA13E	Quantitative Methods For Management	4	25	75	100	4
	08MBAA 13F	Executive Communication	4	25	75	100	4
	08MBAA1LA	PG Diploma Paper I : Entrepreneur Development	4	25	75	100	4
	081GS __	Supportive I	2	25	75	50	2
II	08MBAA23A	Operations Management	4	25	75	100	4
	08MBAA23B	Marketing Management	4	25	75	100	4
	08MBAA23C	Financial Management	4	25	75	100	4
	08MBAA23D	Human Resource Management	4	25	75	100	4
	08MBAA23E	Quantitative Techniques	4	25	75	100	4
	08MBAA23F	Research Methods For Management	4	25	75	100	4
	08MBAA23P	Computer Applications In Management	4	25	75	100	4
	08MBAA2LB	PG Diploma Paper II: Entrepreneurship & Innovations	4	25	75	100	4
082GS __	Supportive II	2	25	75	50	2	
III	08MBAA33A	Business Environment & Ethics	4	25	75	100	4
	08MBAA33B	Management Information System	4	25	75	100	4
	08 MBAA3EA	Elective I	4	25	75	100	4
	08 MBAA3EB	Elective II	4	25	75	100	4
	08 MBAA3EC	Elective III	4	25	75	100	4
	08 MBAA3ED	Elective IV	4	25	75	100	4
	08MBAA37V	Project Report & Viva-Voce	4	25	75	150	6
	083GS __	Supportive III	2	25	75	50	2
08MBAA3LC	PG Diploma Paper III: Legal Aspects of Business	4	25	75	100	4	
IV	08MBAA43A	Strategic Management: Indian & Global Context	4	25	75	100	4
	08MBAA43B	International Business	4	25	75	100	4
	08 MBAA4EF	Elective V	4	25	75	100	4
	08 MBAA4EG	Elective VI	4	25	75	100	4
	08 MBAA4EH	Elective VII	4	25	75	100	4
	08 MBAA4EI	Elective VIII	4	25	75	100	4
	08MBAA4LD	Business Plan PG Dip. Paper IV	4	25	75	100	4

**Total Marks: 3200**

**Credits: 128**

**Elective papers : MBA IIIrd Semester**

1. Promotion Management
2. Export Management
3. Consumer Behavior
4. Rural Marketing
5. Financial Services
6. Equity Research & Portfolio Management
7. Human Resource Development
8. Management of Interpersonal Effectiveness
9. Event Management
10. Advanced Production Management
11. Electronic Commerce
12. System Analysis & Design
13. Integrated Materials Management
14. Retail Management
15. Quality Management systems

**Elective papers: MBA IVth Semester**

1. Supply Chain Management
2. Services Marketing
3. Brand Management
4. Distribution Management
5. International Finance Management
6. Principles of Insurance Management
7. Strategic Cost Management
8. Organizational Development
9. Labour Welfare & Industrial Relations (Legislation)
10. Entrepreneurship Development
11. Information Technology Applications
12. Software Project Management
13. Data Mining
14. Technology Management
15. Total productive maintenance
16. Total quality managements
17. e-marketing

**SDEPARTMENT OF BIOINFORAMTICS**

**M.Sc., Bioinformatics**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08BIIA13A	Cell & Molecular Biology	5	25	75	100	4
	08BIIA13B	Computational Methods For Sequence Analysis	5	25	75	100	4
	08BIIA13C	Programming For Bioinformatics	5	25	75	100	4
	08BIIA1EA	Basics Of Mathematics & Statistics	5	25	75	100	4
	081GS __	Supportive I	2	12	38	50	2
	08BIIA1LA	Diploma Paper I: Biology of cloning Vectors	2	25	75	100	4
			2	-	-	-	-
II	08BIIA23A	Programming In Visual Basic & RDBMS	5	25	75	100	4
	08BIIA23B	Molecular Interactions	5	25	75	100	4
	08BIIA23C	Biophysics & Crystallography	5	25	75	100	4
	08BIIA2EB	Numerical Methods & Optimization Techniques	5	25	75	100	4
	082GS __	Supportive II	2	12	38	50	2
	08BIIA23P	Practical-I: Wet Lab-Protein, Immunology & Pharmacology	5	25	75	100	4
	08BIIA23Q	Practical-II: Computer Programming	5	25	75	100	4
	08BIIA2LB	Diploma Paper II: Methods of gene transfer and genome sequencing	2	25	75	100	4
III	08BIIA 33A	Genomics	5	25	75	100	4
	08BIIA33B	Proteomics	5	25	75	100	4
	08BIIA33C	Molecular Modeling & Computer Aided Drug Design	5	25	75	100	4
	08BIIA3EA	Systems Biology	5	25	75	100	4
	083GS __	Supportive III	2	12	38	50	2
	08BIIA3LC	Diploma Paper III: Applications of rDNA technology	2	25	75	100	4
IV	08BIIA43P	Practical-III : Biological Sequence Analysis and Computer Aided Drug Design	5	25	75	100	4
	08BIIA4LQ	Diploma Practical-I- Molecular techniques	5	25	75	100	4
	08BIIA47V	Project Work, Viva-Voce				200	8

**Total Marks: 2250**

**Credit: 90**

**DEPARTMENT OF MICROBIAL BIOTECHNOLOGY**

**M.Sc., Industrial Biotechnology**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08BIOA13A	Microbial diversity	4	25	75	100	4
	08BIOA13B	Microbial physiology and biochemistry	4	25	75	100	4
	08BIOA13C	Microbial genetics and genetic engineering	4	25	75	100	4
	08BIOA1EA	Bioinstrumentation and Biostatistics	4	25	75	100	4
	081GS_ _	Supportive I	2	25	75	50	2
	08BIOA13P	Microbial techniques and genetic engineering	6	25	75	100	4
	08BIOA1LA	Computational molecular Biology	3	25	75	100	4
	II	08BIOA23A	Bioprocess engineering	4	25	75	100
08BIOA23B		Food biotechnology	4	25	75	100	4
08BIOA23C		Agro industrial biotechnology	4	25	75	100	4
08BIOA2EB		Immunology and immunotechnology	4	25	75	100	4
082GS_ _		Supportive II	2	25	75	50	2
08BIOA23P		Bioprocess, food and agroindustrial Biotechnology	6	25	75	100	4
08BIOA2LB		Genomics	3	25	75	100	4
III		08BIOA33A	Biopharmaceuticals	4	25	75	100
	08BIOA33B	Nanobiotechnology	4	25	75	100	4
	08BIOA33C	Industrial pollution control	4	25	75	100	4
	08BIOA3EC	Biosafety, Bioethics and IPR	4	25	75	100	4
	083GS_ _	Supportive III	2	25	75	50	2
	08BIOA3LC	Proteomics	3	25	75	100	4
	08BIOA47A	Project viva voce*				150	6
IV	08BIOA47P	Biopharmaceuticals. Immunology and industrial pollution control	6	25	75	100	4
	08BIOA4LP	Insilico analysis of Nucleic acid and protein	3	25	75	100	4
	084GS_ _	Supportive IV	2	25	75	50	2

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF BIOTECHNOLOGY**  
**M.Sc., Biotechnology**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08BIOB13A	Biochemistry	4	25	75	100	4
	08BIOB13B	Genetics	4	25	75	100	4
	08BIOB13C	Cell and Molecular Biology	4	25	75	100	4
	08BIOB1EA	Bioinstrumentation and biostatistics	4	25	75	100	4
	081GS_ _	Supportive I	2	25	75	50	2
	08BIOB13P	Basic Biotechnology	6	25	75	100	4
	08BIOB1LA	Basic Biological Science	3	25	75	100	4
II	08BIOB23A	Recombinant DNA technology	4	25	75	100	4
	08BIOB23B	Immunology	4	25	75	100	4
	08BIOB23C	Environmental Biotechnology	4	25	75	100	4
	08BIOB2EB	Nanobiotechnology	4	25	75	100	4
	082GS_ _	Supportive II	2	25	75	50	2
	08BIOB23P	Advanced Biotechnology	6	25	75	100	4
	08BIOB2LB	Biophysics, Biochemistry & Biostatitics	3	25	75	100	4
III	08BIOB33A	Animal biotechnology	4	25	75	100	4
	08BIOB33B	Plant Biotechnology	4	25	75	100	4
	08BIOB33C	Microbial Biotechnology	4	25	75	100	4
	08BIOB3EC	Biodiversity, Bioethics and IPR	4	25	75	100	4
	083GS_ _	Supportive III	2	25	75	50	2
	08BIOB33P	Applied Biotechnology	6	25	75	100	4
	08BIOB3LC	Cell and Molecular Biology, Immunology & Genetic engineering	3	25	75	100	4
IV	08BIOB47V	Project Work				150	6
	08BIOB4LD	Ecology, Physiology & Parasitology	3	25	75	100	4
	083GS_ _	Supportive IV	2	25	75	50	2

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF BOTANY**  
**M.Sc., Plant Science**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08BOTA13A	Microbiology	5	25	75	100	4
	08BOTA13B	Plant Diversity	5	25	75	100	4
	08BOTA13P	Practical: Microbiology and Plant Diversity.	5	25	75	100	4
	08BOTA1EA	Environmental Botany	5	25	75	100	4
	081GS_ _	Supportive I	2	12	38	50	2
	08BOTA1LA	Fundamentals of Horticulture	5	25	75	100	4
	08BOTA23A	Embryology and Tissue culture	5	25	75	100	4
	08BOTA23B	Plant systematics	5	25	75	100	4
II	08BOTA23P	Practical: Embryology and tissue culture, plant systematics	5	25	75	100	4
	08BOTA2EB	Plant Breeding	5	25	75	100	4
	082GS_ _	Supportive II	2	12	38	50	2
	08BOTA2LB	Soil environment	5	25	75	100	4
	08BOTA33A	Plant Physiology and Biochemistry	5	25	75	100	4
	08BOTA33B	Plant Molecular Biology and Biotechnology	5	25	75	100	4
	08BOTA33P	Plant Physiology and Biochemistry, Plant Molecular Biology and Biotechnology	5	25	75	100	4
	08BOTA3EC	Instrumentation	5	25	75	100	4
	083GS_ _	Supportive III	2	12	38	50	2
	08BOTA3LC	Propagation of horticultural crops	5	25	75	100	4
	08BOTA47V	Project work				300	12
IV	08BOTA47X	Viva voce				50	2
	08BOTA47Y	Field visit report (Skill development)				100	6
	Dip	08BOTA4LD	Aesthetic of Horticulture	5	25	75	100

**Total marks : 2250**

**Credits: 90**

**DEPARTMENT OF CHEMISTRY**  
**M.Sc., Chemistry**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Int., (%)	Ext., (%)	Total	Credit
I	08CHMA13A	Organic Chemistry-I : Reaction mechanisms	3	25	75	100	4
	08CHMA13B	Inorganic Chemistry-I: Coordination chemistry	3	25	75	100	4
	08CHMA1EA	Elective-I: Analytical Chemistry	3	25	75	100	4
	08CHMA13P	Practical-I Organic Practical	3	25	75	100	4
	081GS__	Supportive	3	25	75	50	2
	08CHMA1LA	Industrial Chemistry I Appl. Bio-Inorg.Chem.	3	25	75	100	4
II	08CHMA23A	Organic Chemistry-II: Natural Products, Proteins, Nucleic acids, Stereochemistry.	3	25	75	100	4
	08CHMA23B	Physical Chemistry-I: Quantum Chemistry and Electrochemistry	3	25	75	100	4
	08CHMA2LB	Elective-II : Physical Methods in Chemistry	3	25	75	100	4
	08CHMA23P	Practical-II: Inorganic Practical	3	25	75	100	4
	082GS__	Supportive-II	3	25	75	50	2
	08CHMA2LB	Industrial Chemistry II Water treatment , Fuels	3	25	75	100	4
III	08CHMA33A	In Organic Chemistry-II Solid state chemistry and Nuclear chemistry	3	25	75	100	4
	08CHMA33B	Physical Chemistry-II Kinetics and surface chemistry	3	25	75	100	4
	08CHMA3EC	Elective-III: Organic Photochemistry	3	25	75	100	4
	08CHMA33P	Practical-III: Physical Chemistry Practical.	3	25	75	100	4
	083GS__	Supportive III	2	25	75	50	2
	08CHMA3LC	Industrial Chemistry III Industrial organic synthesis.	3	25	75	100	4
IV	08CHMA43A	Organic chemistry-III: Aromaticity, Alkaloids	3	25	75	100	4
	08CHMA43B	In organic Chemistry-III: Organometallic chemistry	3	25	75	100	4
	08CHMA43C	Physical Chemistry III : Thermodynamics	3	25	75	100	4
	08CHMA47V	Project Work				200	8
Dip IV	08CHMA4LD	Industrial Chemistry IV New Energy Source for the century	3	25	75	100	4

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF CHEMISTRY**

**M.Sc., Organic Chemistry**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Int., (%)	Ext., (%)	Total	Credit
I	08CHMB13A	Organic Chemistry-I : Reaction mechanisms	3	25	75	100	4
	08CHMB13B	Inorganic Chemistry-I: Coordination chemistry	3	25	75	100	4
	08CHMB1EA	Elective-I: Analytical Chemistry	3	25	75	100	4
	08CHMB13P	Practical-I Organic Practical	3	25	75	100	4
	081GS__	Supportive I	3	25	75	50	2
	08CHMB1LA	Industrial Chemistry-I Appl. Bio-Inorg. Chem	3	25	75	100	4
II	08CHMB23A	Organic Chemistry-II: Natural Products, Proteins, Nucleic acids, Stereochemistry.	3	25	75	100	4
	08CHMB23B	Physical Chemistry-I: Quantum Chemistry and Electrochemistry	3	25	75	100	4
	08CHMB2EB	Elective-II : Physical Methods in Chemistry	3	25	75	100	4
	08CHMB23P	Practical-II: Inorganic Practical	3	25	75	100	4
	082GS__	Supportive II	3	25	75	50	2
	08CHMB2LB	Industrial Chemistry II Water Treatment, Fuels	3	25	75	100	4
III	08CHMB33A	Organic Chemistry-III Disconnection approach, reagents	3	25	75	100	4
	08CHMB33B	Organic Chemistry-IV Heterocyclic chemistry	3	25	75	100	4
	08CHMB3EC	Elective-III: Organic Photochemistry	3	25	75	100	4
	08CHMB33P	Practical-III: Physical Chemistry Practical.	3	25	75	100	4
	083GS__	Supportive III	2	25	75	50	2
	08CHMB3LC	Industrial Chemistry –III industrial organic synthesis.	3	25	75	100	4
IV	08CHMB43A	Organic chemistry-V: Aromatic Alkaloids	3	25	75	100	4
	08CHMB43B	Organic Chemistry-VI: Medical Chemistry	3	25	75	100	4
	08CHMB43P	Practical –IV : Organic Practical-II	3	25	75	100	4
	08CHMB47V	Project Work				200	8
	08CHMB4LD	Industrial Chemistry IV New energy source for the new century.	3	25	75	100	4

**Total Marks: 2250**

**Credit:90**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**Master of computer application –MCA**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal %	External %	Total	Credit
I	08CSEA13A	Computer organization and Architecture	4	40	60	100	4
	08CSEA13B	Programming in C	2+4	40	60	100	4
	08CSEA13C	Foundations of Computer Science	4	40	60	100	4
	08CSEA13D	Data Structure	2+4	40	60	100	4
	08CSEA1EA	Unix programming	2+4	40	60	100	4
	081GS_ _	General Supportive	2	20	30	50	2
			Diploma Paper I				
II	08CSEA23A	System analysis and Design	4	40	60	100	4
	08CSEA23B	Operating system	3+2	40	60	100	4
	08CSEA23C	Design and analysis of algorithms	4	40	60	100	4
	08CSEA23D	Object oriented programming	2+4	40	60	100	4
	08CSEA2EB	Database management system	2+4	40	60	100	4
	082GS_ _	General Supportive	2	20	30	50	2
			Diploma Paper II				
III	08CSEA33A	Java programming	2+4	40	60	100	4
	08CSEA33B	Object oriented analysis and design	4	40	60	100	4
	08CSEA33C	Computer networks	3+2	40	60	100	4
	08CSEA33D	Software Engineering	4	40	60	100	4
	08CSEA3EC	Computer Graphics	2+4	40	60	100	4
	083GS_ _	General Supportive	2	20	30	50	2
	08CSEA3LC	Diploma Paper III	4	40	60	100	4
IV	08CSEA43A	Visual Programming	2+4	40	60	100	4
	08CSEA43B	Software Project management	4	40	60	100	4
	08CSEA43C	System Programming and compiler design	3+2	40	60	100	4
	08CSEA4EA	Elective I	4	40	60	100	4
	08CSEA4EB	Elective II	4	40	60	100	4
	081GS_ _	General Supportive	2	20	30	50	2
	08CSEA4LD	Diploma Paper IV	4	40	60	100	4
V	08CSEA53A	Internet Programming and web designing	2+4	40	60	100	4
	08CSEA53B	Enterprise Java Programming	2+4	40	60	100	4
	08CSEA5EA	Elective-III	4	40	60	100	4
	08CSEA5EB	Elective –IV	4	40	60	100	4
VI	08CSEA67V	Project work and viva voce				150	6

**Total Marks:3375**

**Credit : 135**

Electives for MCA (CBCS)

Elective	Title of the Paper	L	P	Credits	Marks
Elective	E-commerce	4	0	4	100
Elective	Microprocessor and assembly programming	4	0	4	100
Elective	Enterprise networking	4	0	4	100
Elective	Enterprise Resource Planning	4	0	4	100
Elective	Client /Server architecture	4	0	4	100
Elective	Principles of Programming Languages	4	0	4	100
Elective	Speech processing	4	0	4	100
Elective	Image processing	3	2	4	100
Elective	computer peripherals and Interfacing	4	0	4	100
Elective	Neutral networks	4	0	4	100
Elective	Data mining	4	0	4	100
Elective	Artificial intelligence and Expert systems	4	0	4	100
Elective	Parallel processing	4	0	4	100
Elective	Distributed systems	4	0	4	100
Elective	Security In computing	4	0	4	100
Elective	Knowledge Based system	4	0	4	100
Elective	Parallel algorithms	4	0	4	100
Elective	Management concepts and communications.	4	0	4	100
Elective	Data compressing	4	0	4	100
Elective	Embedded systems and Real time Op. sys	4	0	4	100
Elective	Software testing	4	0	4	100
Elective	Data warehousing	4	0	4	100
Elective	Cryptography	4	0	4	100
Elective	VB and Net	3	2	4	100
Elective	Natural language processing	4	0	4	100
Elective	Virtual reality	4	0	4	100
Elective	Web Services	4	0	4	100
Elective	Multimedia systems	4	0	4	100

L- Lecture Hour

P- Practical Hour

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**M.Sc., Information Technology**

Sem	Code No.	Subjects	Class Hours L+P	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08CSEF13A	Object Oriented analysis Design	4	25	75	100	4
	08CSEF13B	Advance computer Architecture	4	25	75	100	4
	08CSEF13C	Advanced Java Programming	2+4	25	75	100	4
	08CSEF13D	Unix Programming	2+4	25	75	100	4
	08CSEF1EA	Information coding Techniques	4	25	75	100	4
	081GS__	Supportive I	2	25	75	50	2
	08CSEF1LA	Web Designing	4	25	75	100	4
	II	08CSEF23A	Programming in C# and NET Framework	2	25	75	100
08CSEF23B		Multimedia System	4	25	75	100	4
08CSEF23C		Network security and management	4	25	75	100	4
08CSEF23D		Distributed computing	3+2	25	75	100	4
08CSEF2E_		Elective Paper II	4	25	75	100	4
082GS__		Supportive II	2	25	75	50	2
08CSEF2LB		Web Services	4	25	75	100	4
III		08CSEF33A	Embedded system	3+2	25	75	100
	08CSEF33B	Component based system	3+2	25	75	100	4
	08CSEF33C	Web services	4	25	75	100	4
	08CSEF33D	Quantum computing	4	25	75	100	4
	08 CSEF3E_	Elective 3	4	25	75	100	4
	083GS__	Supportive-III	2	25	75	50	2
	08CSEF3LC	Diploma Paper III	4	25	75	100	4
	08CSEF3LD	Diploma Paper IV	4	25	75	100	4
IV	08CSEF47V	Project work & Viva voce				150	6
	084GS__	Supportive IV	2	25	75	50	2

**Total: 2250**

**Credits: 90**

**Electives:**

1. Information coding Techniques
2. Data mining and warehousing
3. Digital image processing
4. Artificial Intelligence
5. Software project managing
6. E-commerce
7. WAP.

**DEPARTMENT OF ENVIRONMENTAL SCIENCES**

**M.Sc., Environmental Science**

Sem	Code	Subject	Class Hours	University Examination			
				Internal (%)	External (%)	Total Mark	Credit
I	08ENVA13A	Principles of Environmental Sciences	5	25	75	100	4
	08ENVA13B	Environmental Pollution	6	25	75	100	4
	08ENVA1EA	Environmental Toxicology	5	25	75	100	4
	08ENVA13P	Practical I	9	25	75	100	4
	081GS	Supportive I	2	20	30	50	2
	08ENVA1LA	Concepts of Industrial Ecology	3	25	75	100	4
II	08ENVA23A	Instrumental Techniques	4	25	75	100	4
	08ENVA23B	Environmental Management and Sustainable Development	4	25	75	100	4
	08ENVA2EB	Statistics and Computer application in Environmental Management	4	25	75	100	4
	08ENVA23C	Biodiversity and Conservation	4	25	75	100	4
	08ENVA23P	Practical II	9	25	75	100	4
	082GS	Supportive II	2	20	30	50	2
	08ENVA2LB	Management of Industrial Ecology	3	25	75	100	4
III	08ENVA33A	Environmental Impact Assessment	4	25	75	100	4
	08ENVA33B	Waste Management and Bioremediation	4	25	75	100	4
	08ENVA33C	Remote sensing and GIS	4	25	75	100	4
	08ENVA3EC	Environmental Engineering	4	25	75	100	4
	08ENVA33P	Practical III	9	25	75	100	4
	083GS	Supportive III	2	20	30	50	2
	08ENVA3LC	Green Products	2	25	75	100	4
IV	08ENVA4LP	PG Diploma-Practical I	9	25	75	100	4
	08ENVA47V	Project Work & Viva Voce Examination				250	10
	08ENVA46A	Industrial Field Visit / Report and Viva voce				50	2

**Total Marks : 2250**

**Credits: 90**

**DEPARTMENT OF MATHEMATICS**

**M.Sc., Branch I (a)-Mathematics**

Sem	Code No.	Subjects	Class Hours L+P	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08MATA13A	Algebra	4	25	75	100	4
	08MATA13B	Real Analysis	4	25	75	100	4
	08MATA13C	Ordinary differential equation	4	25	75	100	4
	08MATA1EA	Numerical Methods	4	25	75	100	4
	081GS __	Supportive-I	2	25	75	50	2
II	08MATA1LA	Paper I: Latex	4	25	75	100	4
	08MATA23A	Complex analysis	4	25	75	100	4
	08MATA23B	Partial Differential equations	4	25	75	100	4
	08MATA23C	Mechanics	4	25	75	100	4
	08MATA2EB	Computer programming I (Theory and Practical)	2+2	25	75	100	4
III	082GS __	Supportive-II	2	25	75	50	2
	08MATA2LB	Paper II: Matlab	4	25	75	100	4
	08MATA33A	Topology & Functional analysis	4	25	75	100	4
	08MATA33B	Fluid Dynamics	4	25	75	100	4
	08MATA33C	Mathematical methods	4	25	75	100	4
IV	08MATA3EC	Computer programming II (Theory and Practical)	2+2	25	75	100	4
	083GS 1 __	Supportive-III	2	25	75	50	2
	08MATA3LC	Paper III: Mathematica	4	25	75	100	4
	08MATA43A	Nonlinear Differential Equations	4	25	75	100	4
	08MATA43B	Control theory	4	25	75	100	4
08MATA43C	Guide paper	4	25	75	100	4	
08MATA47V	Project				200	8	
08MATA4LP	Paper IV: Practicals	4	25	75	100	4	

**Total Marks : 2250**

**Credits: 90**

**DEPARTMENT OF APPLIED MATHEMATICS**  
**M.Sc., Branch I (b)- Mathematics with computer application**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Int., (%)	External (%)	Total	Credit
I	08MATB13A	Algebra	5	25	75	100	4
	08MATB13B	Analysis	5	25	75	100	4
	08MATB13C	Differential equations	5	25	75	100	4
	08MATB1EA	Numerical Methods	5	25	75	100	4
	081GS __	Supportive-I	2	25	75	50	2
	08MATB1LA	Paper I : Matlab Theory and Practical	3 T+ 4 P	25	75	100	4
II	08MATB23A	Discrete Mathematics	5	25	75	100	4
	08MATB23B	Fluid dynamics	5	25	75	100	4
	08MATB23C	Programming languages	5	25	75	100	4
	08MATB23P	Computational Mathematics ( Practical only )	5	25	75	100	4
	082GS __	Supportive-II	2	25	75	50	2
	08MATB2LB	Paper II: Mathematica (Theory and Practical)	3 T+ 4 P	25	75	100	4
III	08MATB33A	Operations Research	5	25	75	100	4
	08MATB33B	Data structure	5	25	75	100	4
	08MATB33P	Data structure (Lab)	5	25	75	100	4
	08MATB3EC	Java Programming (Theory and Practical)	5	25	75	100	4
	083GS __	Supportive-III	2	25	75	50	2
	08MATB3LC	Visual Basic (Theory and practical)	3 T+ 4 P	25	75	100	4
IV	08MATB43A	Mathematical methods	5	25	75	100	4
	08MATB43B	Data warehousing	5	25	75	100	4
	08MATB47V	Project work				300	12
Dip IV	08MATB4LP	Paper IV: Oracle (Theory and Practical)	3 T+ 4 P	25	75	100	4

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF NANO SCIENCE AND TECHNOLOGY**

**M.Sc., Nano Science and Technology**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08NSTA13A	Classical Mechanics & Statistical Mechanics	4	25	75	100	4
	08NSTA13B	Condensed matter physics	4	25	75	100	4
	08NSTA13C	Fundamentals of Nano Science	4	25	75	100	4
	08NSTA1EA	Quantum Physics and Applications	2	25	75	50	2
	08NSTA1EB	Electronics	4	25	75	50	2
	081GS __	Supportive I	2	25	75	50	2
	08NSTA1LA	Speaking & Writing I	4	25	75	100	4
	08NSTA23A	Synthesis of Nano Materials	4	25	75	100	4
	08NSTA23B	Characterization of Nano materials	4	25	75	100	4
	08NSTA23C	Inorganic Semiconductor Nanomaterials	4	25	75	100	4
II	08NSTA2EB	Nano Electronics	4	25	75	100	4
	082GS __	Supportive II	2	25	75	50	2
	08NSTA23P	Practical Nanotechnology I	5	25	75	100	4
	08NSTA2LB	Listening & Reading I	4	25	75	100	4
	08NSTA33A	Nano-Lithography	4	25	75	100	4
	08NSTA33B	Nano- Biotechnology	4	25	75	100	4
	08NSTA33C	Nano- Medicine and Drug Delivery system	4	25	75	100	4
	08NSTA3EC	Nanoscale magnetic Materials and Devices	4	25	75	100	4
	08NSTA33P	Practical II Advanced nanotechnology	5	25	75	100	4
	083GS __	Supportive III	2	25	75	50	2
IV	08NSTA3LC	Speaking & Writing II	4	25	75	100	4
	08NSTA47V	Project and Viva-Voce	16	25	75	200	8
	08NSTA43A	Theory Paper Related to Project	4	25	75	100	4
	08NSTA4LD	Listening and Reading II	4	25	75	100	4

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF PHYSICS**

**M.Sc., Physics**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08PHYA13A	Mathematical physics	4	25	75	100	4
	08PHYA13B	Classical and Stastical Mechanics	4	25	75	100	4
	08PHYA1EA	Quantum Mechanics I Elective	4	25	75	100	4
	08PHYA13P	Practical I	4	25	75	100	4
	081GS __	Supportive	2	12	38	50	2
	08PHYA1LA	Fundamentals of Nanoscience					
II	08PHYA23A	Computational methods and Programming	4	25	75	100	4
	08PHYA23B	Quantum Mechanics-II	4	25	75	100	4
	08PHYA23P	Practical-II	4	25	75	100	4
	08PHYA2EB	Condensed matter physics-(Elective)	4	25	75	100	4
	082GS __	Supportive	2	12	38	50	2
	08PHYA2LB	Nanomaterials Synthesis					
III	08PHYA33A	Atomic Physics and Molecular Spectroscopy	4	25	75	100	4
	08PHYA33B	Advanced condensed matter physics	4	25	75	100	4
	08PHYA33P	Practical –III	4	25	75	100	4
	08PHYA3EC	Electronics devices (Elective)	4	25	75	100	4
	083GS __	Supportive	2	12	38	50	2
	08PHYA3LC	Characterization & application of nano materials	4	25	75	100	4
IV	08PHYA43A	Electrodynamics and Plasma Physics	4	25	75	100	4
	08PHYA43B	Nuclear and Particle Physics	4	25	75	100	4
	08PHYA47V	Project and Viva voce		100	150	250	10
	08PHYA4LD	Diploma Practical	4	25	75	100	4
	084GS __	Supportive IV	2	12	38	50	2

**Total Marks : 2250**

**Credits : 90**

**DEPARTMENT OF STATISTICS**

**M.Sc., Statistics**

**Semester - I**

Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S13 A	Real Analysis and Linear Algebra	4	25	75	100
08S13 B	Probability and Distributions	4	25	75	100
08S13 C	Sampling theory and methods	4	25	75	100
08S 1EA (Elective)	Object oriented programming with C++	4	25	75	100
Supportive	Offered by other Departments	2	12	38	50
08S 1LA	Diploma: Paper-I Principles of Insurance.	4	25	75	100
	Total	18+4			550

**Semester - II**

Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S 23A	Statistical inference-I	4	25	75	100
08S 23B	Multivariate analysis	4	25	75	100
08S 2EA (Elective)	Programming in JAVA	4	25	75	100
08S 23P	Statistical Practical-I	4	25	75	100
Supportive	Offered by other Departments	2	12	38	50
08S 2LA	Diploma: Paper-II Financial Mathematics	4	25	75	100
	Total	18+4			550

**Semester - III**

Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S 33A	Statistical inference II	4	25	75	100
08S 33B	Statistical Quality control	4	25	75	100
08S 33C	Linear models and Design of Experiments.	4	25	75	100
08S 3EA (Elective)	Operational Research	4	25	75	100
Supportive	Offered by other Departments	2	12	38	50
08S 3LA	Diploma: Paper-III Practice of life assurance.	4	25	75	100
	Total	18+4			550

**Semester - IV**

Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S 43A	Time series and stochastic processes	4	25	75	100
08S 43B	Application of Statistical software packages	4	25	75	100
08S 43P	Statistical Practical-II	4	25	75	100
08S 4PV	*Project and viva –voce	8			200
08S 4LA	Diploma-IV Insurance Business Environment	4	25	75	100
	Total	20+4			600

**TOTAL MARKS : 2250**

**CREDITS: 90**

**DEPARTMENT OF STATISTICS**  
**M.Sc., Statistics with computer Applications**

<b>Semester – I</b>					
Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S13 A	Probability and Distributions	4	25	75	100
08S13 B	Sampling theory and methods	4	25	75	100
08S13 C	Statistical Inference-I	4	25	75	100
08S 1EA (Elective)	Object oriented programming with C++	4	25	75	100
Supportive	Offered by other Departments	2	12	38	50
08S 1LA	Diploma: Paper-I Principles of Insurance.	4	25	75	100
	Total	18+4			550
<b>Semester – II</b>					
Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S 23A	Statistical inference-II	4	25	75	100
08S 23B	Multivariate Analysis	4	25	75	100
08S 2EA (Elective)	Programming in JAVA	4	25	75	100
08S 23P	Programming Lab- I	4	25	75	100
Supportive	Offered by other Departments	2	12	38	50
08S 2LA	Diploma: Paper-II Financial Mathematics	4	25	75	100
	Total	18+4			550
<b>Semester – III</b>					
Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S 33A	Statistical Quality control	4	25	75	100
08S 33B	Linear models and Design of Experiments.	4	25	75	100
08S 33C	HTML & Web Designing	4	25	75	100
08S 3EA (Elective)	Programming in Visual Basic	4	25	75	100
Supportive	Offered by other Departments	2	12	38	50
08S 3LA	Diploma: Paper-III Practice of life Assurance.	4	25	75	100
	Total	18+4			550
<b>Semester – IV</b>					
Subject Code	Title of the papers	Credit Point	Int Mark	Ext Mark	Total Marks
08S 43A	Time series and stochastic processes	4	25	75	100
08S 43B	Application of Statistical software Packages	4	25	75	100
08S 43P	Programming Lab- II	4	25	75	100
08S 4PV	*Project and viva –voce	8			200
08S 4LA	Diploma-IV Insurance Business Environment	4	25	75	100
	Total	20+4			600

**TOTAL MARKS : 2250**

**CREDITS: 90**

**DEPARTMENT OF ZOOLOGY**  
**M.Sc., Animal Science**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08ZOOA13A	Biochemistry and Biophysics	4	25	75	100	4
	08ZOOA13B	Molecular Cell Biology	4	25	75	100	4
	08ZOOA13C	Microbiology	4	25	75	100	4
	08ZOOA13D	Practical (Biochemistry and Biophysics, Molecular Cell Biology and Microbiology)	6	25	75	100	4
	08ZOOA1EA	An introduction to Human Cytogenetics	4	25	75	100	4
	08ZOOA1GS	Entomo-biotechnology	2	12	38	50	2
	08ZOOA1LA	Evolution and Biogeography	4	25	75	100	4
	II	08ZOOA23A	Animal Physiology	4	25	75	100
08ZOOA23B		Endocrinology	4	25	75	100	4
08ZOOA23C		Experimental Embryology	4	25	75	100	4
08ZOOA23D		Practical (Animal Physiology, Endocrinology and Experimental Embryology)	6	25	75	100	4
08ZOOA2EA		Global Warming-Animal Migration and Behavior	4	25	75	100	4
08ZOOA2GS		Crustacean Aquaculture and Technology	2	12	38	50	2
08ZOOA2LA		Wild life Biology and conservation	4	25	75	100	4
III		08ZOOA33A	Molecular Genetics	4	25	75	100
	08ZOOA33B	Immunology	4	25	75	100	4
	08ZOOA33C	Environmental Biology and Toxicology	4	25	75	100	4
	08ZOOA33D	Practical(Molecular Genetics, Immunology and Environmental Biology and Toxicology)	6	25	75	100	4
	08ZOOA3EA	Invertebrate and Vertebrate Phylogeny	4	25	75	100	4
	08ZOOA3GS	Marine Biotechnology	2	12	38	50	2
	08ZOOA3LA	Animal Biodiversity	4	25	75	100	4
	08ZOOA4LA	Practical(Evolution and Biogeography, Wildlife Biology and Conservation and Animal Biodiversity)	4	25	75	100	4
IV	08ZOOA4P	Project Work	-	-	-	100	4
		Viva -Voce Examination	-	-	-	50	2
		Field Trip (Visit Educational Institution, Research Labs and Industries etc.)	-	-	-	50	2
		Skill Development (Communication skills, Personality development, Summer training programme, Hands on training, On the job training programme etc.)	-	-	-		

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF ZOOLOGY**  
**M.Sc., Animal Biotechnology**

Sem	Code No.	Subjects	Class Hours	University Examination			
				Internal (%)	External (%)	Total	Credit
I	08ZOOB13A	Biochemistry and Biophysics	4	25	75	100	4
	08ZOOB13B	Molecular Cell Biology	4	25	75	100	4
	08ZOOB13C	Microbiology	4	25	75	100	4
	08ZOOB13D	Practical (Biochemistry and Biophysics, Molecular Cell Biology and Microbiology)	6				
	08ZOOB1EA	An Introduction to Human Cytogenetics	4	25	75	100	4
	08ZOOB1GS	Entomo- Biotechnology	2	12	38	50	2
	08ZOOB1LA	Evolution and Biogeography	4	25	75	100	4
II	08ZOOB23A	Proteomics	4				
	08ZOOB23B	Receptor Biology	4	25	75	100	4
	08ZOOB23C	Stem Technology	4	25	75	100	4
	08ZOOB23D	Practical (Proteomics, Receptor Biology and Receptor Biology)	6				
	08ZOOB2EA	Molecular Entomology	4	25	75	100	4
	08ZOOB2GS	Crustacean Aquaculture and Technology	2	12	38	50	2
	08ZOOB2LA	Wild life Biology and conservation	4	25	75	100	4
III	08ZOOB33A	NanoBiotechnology	4	25	75	100	4
	08ZOOB33B	Immuno technology	4	25	75	100	4
	08ZOOB33C	Genetic Engineering	4	25	75	100	4
	08ZOOB33D	Practical (NanoBiotechnology, Immuno technology and Genetic Engineering)	6				
	08ZOOB3EA	Ecobiotechnology	4	25	75	100	4
	08ZOOB3GS	Marine Biotechnology	2	12	38	50	2
	08ZOOB3LA	Animal Biodiversity	4	25	75	100	4
	08ZOOB3LB	Practical (Evolution and Biogeography, Wild life Biology and conservation and Animal Biodiversity)	4	25	75		
IV	08ZOOB4P	Project Work	-	-	-	100	4
		Viva -Voce Examination	-	-	-	50	2
		Field Trip (Visit Educational Institution, Research Labs and Industries etc.)	-	-	-	50	2
		Skill Development (Communication skills, Personality development, Summer training programme, Hands on training, On the job training programme etc.)	-	-	-		

**Total Marks: 2250**

**Credits: 90**

**DEPARTMENT OF ZOOLOGY**  
**M.Tech., Molecular Biology and Human Genetics**

SEM	PAPER/ CORE,	SUBJECT	INSTR .HRS PER WEEK	UNIVERSITY EXAMINATION			
				Int. %	EXT. %	TOT AL	CRED ITS
I	CORE-I	Cellular and Molecular Biology	4	25	75	100	4
	CORE-II	Human Genetics	4	25	75	100	4
	CORE-III	Bioinformatics and Genomics	4	25	75	100	4
	CORE-IV	Practical (Cellular and Molecular Biology, Human Genetics and Bioinformatics and Genomics)	6	25	75	100	4
	ELECTIVE-I	Immuno Technology	4	25	75	100	4
	SUPPORTIVE-I	Entomo Biotechnology	2	12	38	50	2
	DIPLOMA-I	Biomedical Instrumentation-Paper I	4	25	75	100	4
II	CORE-V	Biochemical Genetics	4	25	75	100	4
	CORE-VI	Proteomics	4	25	75	100	4
	CORE-VII	Animal Cell culture and Techniques	4	25	75	100	4
	CORE-VIII	Practical (Biochemical Genetics, Proteomics and Animal Cell culture and Techniques)	6	25	75	100	4
	ELECTIVE-II	Biosafety and Bioethics	4	25	75	100	4
	SUPPORTIVE-II	Stress and Biomarkers	2	12	38	50	2
	DIPLOMA-II	Biomedical Instrumentation-Paper II	4	25	75	100	4
III	CORE-IX	Toxicology and Environmental Genetics	4	25	75	100	4
	CORE-X	Population Genetics	4	25	75	100	4
	CORE-XI	Recombinant DNA Technology	4	25	75	100	4
	CORE-XII	Practical (Toxicology and Environmental Genetics, Population Genetics and Recombinant DNA Technology)	6	25	75	100	4
	ELECTIVE-III	Gene Therapy	4	25	75	100	4
	SUPPORTIVE-III	Conservation Biology	2	12	38	50	2
	DIPLOMA-III	Biomedical Instrumentation-Paper III	4	25	75	100	4
IV	DIPLOMA-IV	Practical (Biomedical Instrumentation)	4	25	75	100	4
	PROJECT, VIVA, FIELD TRIP AND SKILL DEVELOPMENT	Project Work	-	-	-	100	4
		Viva-voce Examination	-	-	-	50	2
		Field Trip (Visit Educational Institution, Research Labs and Industries etc.)	-	-	-	50	2
	Skill Development (Communication skills, Personality development, Summer training programme, Hands on training, On the job training programme etc.)						

**Total Marks: 2250**

**Credits: 90I., General**

**Supportive courses offered at our University Departments.**

**i. Odd semesters**

Sl. No.	Department	Course offered	Supportive Course in Odd Semester	
			I Semester	III Semester
1	Bioinformatics	M.Sc., Bioinformatics	--	NIL
2	Biotechnology	M.Sc., Biotechnology M.Sc., Genetic Engineering	Perspectives of Biotechnology	NIL
3	Botany	M.Sc., Plant Science	Man and Microbes	Plants and Medicine
4	Chemistry	M.Sc., Chemistry M.Sc., Organic Chemistry	Chemistry in context	NIL
5	Communication and Media Studies	M.A. Journalism and Mass communications	NIL	NIL
6	Commerce	M.Sc., Finance and computer applications	Principles of Accounting	as in I Sem.
		M.Com., Finance and computer applications M.Com. Finance & Accounting	Principles of Accounting	as in I Sem
7	Computer Science and Engineering	Master of computer application (MCA) M.Sc., Information Technology M.Sc., Computer Science	MS Word MS Access C Programming Internet and HTML	Windows MS Word as in I Sem.
8	Economics	M.A Business Economics	Basic Economics	Elements of Public Economics
9	Education Technology	M.Sc., Electronic Media M.Sc., Educational Communication	Teaching Technology	as in I Sem
10	English and Foreign languages	M.A. English Literature  China Students	Essentials of Language and communication	as in I Sem
11	Environmental Science	M.Sc., Environmental Science M.Sc., Environmental Management	Ecotourism	Occupational Health and Industrial Safety
12	Exten. and career guidance	M.A. Career guidance	Career Preparation and Talent Management Career counseling skills, web based carrier guidance	as in I Sem
13	Linguistics	M.A Computational Linguistics	Basics of Phonetics	Basics of Translation
14	School of Managements	Master of Business administration	Basics of Marketing	NIL
15	Mathematics	M.Sc. Mathematics	Applied Mathematics- I	NIL
16	Applied Mathematics	M.Sc. Mathematics with computer application	NIL	NIL
17	Microbial Biotechnology	M.Sc. Industrial Biotechnology	Fermentation Technology	Clinical Microbiology
18	Nano-Technology	M.Sc. Nanoscience and Technology	Science and Technology at Nano-scale Biomedical application of Nanotechnology	NIL
19	Physical Education	Master of Physical Education	Yoga Education Health Fitness Wellness II	as in I Sem.
20	Physics	M.Sc. Physics M.Sc. Medical Physics	Basic Electronics	as in I Sem. Microprocessor and its applications
21	Population Studies & Sociology	M.A. Sociology	Basic Issues in Population Studies Social Problems	as in I Sem.
22	Psychology	M.Sc., Applied Psychology	Introduction to Psychology(Revised)	as in I Sem.
23	Statistics	M.Sc., Statistics M.Sc., Statistic with Computer Application	Descriptive Statistics Statistical methods for Biologists.	as in I Sem.
24	Social work	Master of Social work	Community Development	NIL
25	Tamil	M.A. Tamilalogy	India Thathuva Gnanam, Tamil Elakia Varalaru	NIL.
26	University Science Instrumentation Center	M.Sc. Electronic and Instrumentation	Electronic test instrumentation Biomedical Instrumentation	as in I Sem
27	Women's Studies	M.A. Women's Studies	Introducing gender studies	as in I Sem
28	Zoology	M.Sc. Animal Science M.Sc. Animal Biotechnology M.Tech. Molecular Biology & Human Genetics	Entomic Biotechnologies	Marine Biotechnology Conservation Biology

**ii. Even (II) semester**

Sl. No.	Department	Supportive Courses offered
1	Computer Science Engineering	NIL
2	Microbial Biotechnology	Food Biotechnology
3	Physics	Energy Resources
4	Chemistry	Chemistry in Day to Day life
5	Statistics	Statistical Methods for Researchers
		Language for special Purpose
		Health Fitness and Wellness
		Natural Disaster Management
		Basic of Financial Management
6	English	Listening and speaking skills
7	Sociology	Social Problems
8	Tamil	Thamilar Nattupura Vilayattukal
		Business Communication
9	Mathematics	Applied Mathematics II
10	Environmental Science	Environment and Society, Natural disaster Management
11	Commerce	Principles of Modern Banking
12	Career Extension & Career Guidance	Career preparation and talent
		Career counseling Management Skills
		Web based Career Guidance
13	Educational Technology	Communicative English
14	Nanotechnology	Biomedical Application of Nanotechnology
15	Women's Studies	NGO Management
		Globalization and Gender
16	Zoology	Bio safety and Bio ethics
		Protein Engineering
17	Linguistics	Dictionary Making
18	Economics	An introduction to Environmental Economics
		Principals of Managements
19	Psychology	Applied Psychology for Modern Life

## **J. Rules and Regulations of CBCS Effective from 2007 onwards**

### **1. DEFINITIONS**

- 1.1. **Programme** normally means, a P.G. Degree programme.
- 1.2. **Course** means, a theory or a practical subject or a combination of both, studied in a semester.
- 1.3. **Faculty** means, a teaching member of the University departments.
- 1.4. **Student Adviser** means, a teaching member of a department, who advises the student on academic and other related matters, nominated by the Head of the Department (HOD).
- 1.5. **Semester** means, the calendar duration of instruction and may normally range from 15 to 18 weeks.

### **2. Curriculum/Programme of Study**

#### **2.1. Curriculum**

Every Department has a prescribed course structure, which in general terms is known as Curriculum/Course of Study/Programme. It prescribes courses to be studied in each semester. This includes all the curricula and course contents. Except for the language curricula offered by the Department of Tamil, for all other curricula the medium of the instruction, examination, seminar and project work should be in English.

#### **2.2. Semesters**

There are two semesters in a year. The semester that begins in July (July to November) is known as Odd semester and the semester that begins in December (December to April) is known as Even Semester and the summer vacation is from May to June. There is no semester break. However from 21<sup>st</sup>/22<sup>nd</sup> December to 1<sup>st</sup> January, the mid semester holiday is available.

#### **2.3. Credit System/ Course Structure**

In general a certain quantum of work measured in terms of credit is laid down as the requirement for a particular degree. The student acquires credits by passing courses every semester. There are mainly two types of courses: i) Laboratory courses consisting of theory and practical and ii) Non-laboratory courses consisting of only theory papers. The credit (C) for a course/paper is dependent on the number of hours of instruction per week in that programme. Credits are assigned to practical training, Seminar and projects also. The quantum of credits for such activities are stipulated by respective programme committee of the department, which on subsequent CBCS meeting chaired by Vice Chancellor, approval will be done. It is mandatory that the HOD must have been placed the same and got it approved by the Board of studies earlier to the CBCS meeting.

#### **2.4. Projects**

Project is inclusive component of a programme, wherein under the guidance of a faculty member, a student is required to do an innovative work with the application of knowledge earned during the course of his/her study. The student is expected to do literature survey and carry out development and/or experimentation. Through the project work the student has to exhibit both analytical and practical skills. The student will have to do his/her project under the guidance of a faculty member from the same department unless specifically permitted by the HOD for an alternate arrangement.

- i). The project work shall be pursued for a minimum of 16 weeks, normally during the final semester.
- ii). If a candidate could not submit the Project / Report on or before the specified deadline, he/she shall be permitted by the HOD on the recommendation of Course Teacher and the chairperson of the Programme Committee concerned, to submit the same in a subsequent semester.

#### **2.5. Seminars**

Seminar is an inclusive component of a course requirement wherein under the guidance of a course teacher a student is expected to do an in depth study in a specialized area by doing literature survey, understanding different aspects of the problem and arriving at a status report in that area. While doing a seminar, the student is expected to learn investigation

methodologies, study relevant research papers, correlate work of various authors/ researchers critically, study concepts, techniques, prevailing results pertaining to the course and analyze them for presentation as a seminar. It is mandatory to give a seminar presentation to the course teacher during the semester in which that course/paper is offered.

## 2.6. Diploma Programme

Each PG programme is having core (some core paper is designated as diploma), elective and supportive courses/papers having credits from 2 to 5 depending on their lecturer hours per week. While core paper is exclusively offered in the parent department, the supportive papers are offered only by other departments. The Elective paper may be from their parent /other departments as well. All the courses/papers may / may not have practical training as decided by the programme committee.

## 2.7. Duration and structure of the programme

i). The minimum and maximum periods for completion of a Programme are given below :

Programme	Minimum number of semesters	Maximum number of semesters
<b>Full time:</b>		
M.A./M.Sc./M.B.A./M.S/ MBA	4	8
M.C.A / M.Tech.	6	12
<b>Part-time:</b>		
M.A. and M.Sc.	6	10

ii). The minimum number of credits to be earned for the successful completion of the 2 year fulltime (e.g.:M.Sc.) and 3 year fulltime (e.g.:M.C.A./M.Tech.) programmes normally are 90 and 135 respectively, which should include a minimum number of credits 6 from the Supportive courses and 12 from the Elective Courses. The Elective / Supportive courses atleast one must be offered in the first three semesters. The remaining 72 credits are allotted to core papers/courses offered by the parent departments. This includes theory, practical and project. Normally the project is conducted in the 4<sup>th</sup> semester. As a special case, 72 credits may also include Field trip or Industrial visit. The MBA programme which comes under AICTE norms, however will have a minimum of 128 credits (3200) for its successful completion. Keeping the diverse input of candidates in MBA, all elective courses are offered only in the III & IV semesters. Thus core paper alone will be taught in the I<sup>st</sup> and II<sup>nd</sup> semesters of MBA.

### iii). Assessment of Credits:

One credit is assigned for each lecture of one-hour duration per week. Two hours of practical session in a week is equal to one credit. The minimum and maximum numbers of credits, a candidate has to be registered in a semester are given below.

Semester	Minimum credits	Maximum credits*
<b>Full time:</b>		
I <sup>st</sup> semester to Pre-final semester	14	24
Final semester (Project work / Industrial visit / Field visit/ Skill development)	12	22
<b>Part-time:</b>	10	18

\*The exception is only for MBA programme which comes under AICTE norms.

## 3. Registration

### 3.1. Semester wise registration

The student is requested to register for opted courses/Papers with the respective faculty, after due announcement of the prescribed dates and at the beginning/commencement of each semesters.

On joining the University, each student is assigned to a faculty advisor. The student can register for course(s) which he/she intends to take during a given semester on the basis of the programme for each discipline as given in the course of study bulletin and as per the advice given by his/her faculty adviser. The faculty adviser is expected to discuss with the student and then decide the nature of the courses for which the students can register during the

semester within the framework of the guidelines (Scheme of Examinations). In this connection, the HOD can pass on the information (about different Quota) of subjects available with other departments, which are applicable to them.

### **3.2. Procedure for Registration**

The registration schedule is announced in advance by the HOD. Students should contact the respective faculty adviser of their department for guidance and registration. The student adviser on the instruction of HOD, can suggest possible elective / supportive course(s) for registration by the candidate. In any case, registration must be completed on or before the prescribed last date for registration. Students having outstanding dues to the Institute or a hostel, shall not be permitted to register. Late registration may be permitted for certain period only, for valid reasons and on payment of a late registration fee prescribed from time to time by CBCS office. However, if a student fails to register during any semester, his/her studentship is liable to be cancelled.

- i). The registration of courses for the semester(s) other than the first semester shall be made at least one week prior to the end-semester examination of the previous semester.
  - ii). The details of the core, elective and supportive courses, and the Project shall be intimated to the students, prior to the date of registration.
  - iii). The registration form shall be filled in and signed by the student and the concerned teacher (Getting signature is not however mandatory).
  - iv). A student may be granted permission to withdraw from a course earlier registered by him/her within two weeks (or in the event of absencing himself/herself for more than two weeks) from the date of commencement of the semester.
  - v). A student who has withdrawn his/her registration for a specific course shall register for that course again when the same course is offered by the department concerned, on subsequent semester.
- 3.3. A student shall register for a maximum number of 3 courses/paper under elective and 3 courses under supportive categories in a programme.

### **3.4. Temporary withdrawal from the programme:**

A student may be permitted by the Dean of the faculty on the recommendation of the chairperson of the Programme Committee and the Head of the Department concerned to temporarily withdraw from the programme upto a maximum of two semesters for valid grounds.

## **4. STUDENT ADVISER**

The Head of each department shall in consultation with all the Course Teachers in the department, nominate a member from the department to function as the Student Adviser for the students of a Degree Programme.

- 4.1. The Student Adviser shall advise the students in choosing their courses and structuring their Programme

## **5. PROGRAMME COMMITTEE**

- 5.1. Every Programme shall have a Programme Committee constituted by the HOD in consultation with all the Courses Teachers of the corresponding programme.

- 5.2. The composition of the Programme Committee shall be as follows:

A faculty member will be the Chairperson; Teachers of all courses of the corresponding programme; Student Adviser and two student representative of the programme (one in I<sup>st</sup> year and other in II<sup>nd</sup> year), nominated by the Head of the Department.

- 5.3. The Programme Committee shall discharge the following duties:

- (i) Reviewing periodically the progress of the classes.
- (ii) Discussing the problems concerning curricula, syllabi and the conduct of classes.

- (iii) Providing the consultation of the Course Teachers on the nature and scope of assessment for the course, which shall be announced, to the students at the beginning of respective semesters.
- (iv) Communicating its recommendation to the Head of the Department on academic matters.
- (v) The Programme Committee shall meet at least thrice in a semester preferably at the end of each internal continuous assessment tests but before the final end semester Exam.

## 6. ATTENDANCE

- 6.1. No candidate who has put in less than 75% of the full attendance for the course shall be permitted to take the end semester examination of the course concerned.
- 6.2. On the day on which a course is concluded, the Course Teacher of the course shall intimate the Head of the Department, the particulars of total class hours, hours attended and percentage of attendance of all students, who have shortage of attendance in the course offered by him/her.
- 6.3. The Head of the Department shall announce the names of all students who will not be eligible to take the end – semester examination in the various courses due to shortage of attendance.
- 6.4. Condonation of shortage of attendance shall be given as per the provisions given below: The Head of the Department shall condone lack of attendance for a student in a course when the student had earned a minimum of 65% of the attendance required for the course concerned by paying Rs.500/- per course in to the finance section.
- 6.5. Students having less than 65% of the attendance are directed to reregister for the respective course again to compensate the short-fall in attendance.

## 7. ASSESSMENT PROCEDURE – TESTS AND EXAMINATION

- 7.1 The Sessional Assessments may be in the form of a combination of periodical tests (three), assignments (two) and seminars (one).
- 7.2 The assessment procedure to be followed for each course shall be approved by the Programme Committees and announced by it to the students at the commencement of each semester by the Course Teacher.
- 7.3 Such schedule for continuous assessment procedure will be displayed on the notice board in the beginning of the semester. There will be no classes held during such examination period.
- 7.4 The course teacher shall intimate the internal marks of the candidates and their attendance detail to the student through notice board.
- 7.5. The HOD on the advice of course teacher shall collect all the relevant documents pertaining to internal assessment marks together with attendance secured by each candidate and forward to Controller of Examination (COE) office. Based on this detail and CBCS regulations, the COE will issue Hall ticket for end semester examination, through HOD.

### DETAILS OF SESSIONAL ASSESSMENT/INTERNAL ASSESSMENT (25 MARKS)

EXAMINATIONS	ASSESSMENT	MARKS
Test	Average of best two test performance	15
Assignment	Average of the two submitted	5
Seminar	Presentation of a given topic	5

The question paper for the test, topic of the assignments and seminar will be assigned by the respective course teacher. All tests will be conducted only on prior notice in the respective departments. The exact date and timing will be announced by the HOD at the start of the semester.

## **8. END-SEMESTER EXAMINATION**

- 8.1. There shall be one end semester examination (ESE) of three hours duration on each lecture based course.
- 8.2. For practical examination, the duration shall be fixed by the Programme Committee of the department with intimation to COE.
- 8.3. The evaluation of the Project will be based on the Project Report and a viva voce conducted by the supervisor (i.e. faculty of the department) and an External examiner duly appointed by COE.
- 8.4. The end semester examination will cover the full syllabus of the course.
- 8.5. The end semester examination is compulsory for all students and evaluated by COE following double evaluation system.

All the above must be on par with "Scheme of Examination" approved by the Programme Committee

## **9. WEIGHTAGES**

The following will be the weightages for different courses.

- 9.1. For Lecture based course (Non-laboratory)

Sessional assessment	- 25 %
End – Semester	- 75%
- 9.2. For laboratory based courses / Practical

When End – Semester Examination is held	
Sessional Assessment	- 25%
End – Semester Examination	- 75%
- 9.3. Project Work

Sessional Assessments	- 30%
Evaluation of Project report	
By External Examiner and Supervisor,	- 40%
Vivo Voce examination by the	
Supervisor and the External Examiner	- 30%
- 9.4. The maximum marks for tests, assignments, seminars, laboratory work and examination will be prescribed by the Programme Committee and announced to the students at the time of commencement of the Programme.
- 9.5. The marks awarded in test etc. shall be weighed as per the scheme given above for declaring the results.

## **10. SUPPLEMENTARY EXAMINATION**

- 10.1. Students who have missed sessional assessments on valid reason may apply for retests to the Course Teacher concerned specifying the reason for the absence and the Course Teacher shall conduct a retest when satisfied with the validity of the reasons given for the absence. Such conduct must get the approval of programme committee.
- 10.2. Students who have missed the end-semester written examinations on valid reason may make an application for supplement examination duly recommended by the programme committee to the head of the Department within five days from the date of examination missed. The same may be communicated to the COE within 7 working days and the COE may conduct the supplementary examination.
- 10.3. Permission to take up a supplementary examination in the course(s) may be given under exceptional circumstances like hospitalization or accidents to the student
- 10.4. The supplementary examination for theory paper alone will be conducted at the final semester.
- 10.5. In case of students who have failed in 1<sup>st</sup> or 2<sup>nd</sup> semester must reappear only in 3<sup>rd</sup> or 4<sup>th</sup> semester respectively, when such courses are offered. Even if such courses are discontinued, the COE will conduct such exam, otherwise the students are qualified to do so.

- 10.6 If the courses offered in the 1<sup>st</sup> or 2<sup>nd</sup> semesters are discontinued in 3<sup>rd</sup> and 4<sup>th</sup>, then the students are directed to opt for new courses only. This is applicable for the students who are detained from writing the examinations for want of required attendance, in their 1<sup>st</sup> or 2<sup>nd</sup> semesters.

## 11. COURSE WISE GRADING OF STUDENTS LETTER GRADES

- 11.1. Based on the performance, each student shall be awarded a Final Letter Grade at the end of the semester in each course.

- 11.2. The letter grades and their corresponding grade points are as follows:

Grade points	Letter Grade
6	O- Outstanding
5	A – Very good
4	B – Good
3	C – Average
2	D – Below Average
1	E – Poor
0	F – Not adequate
-	I – Inadequate attendance

- 11.3. The range of marks and the letter grades corresponding to them are as follows:

% of marks	Grade
75 and above	O
60 - 74	A
55 - 59	B
50 - 54	C
45 - 49	D
40 - 44	E
Below 40	NA

- 11.4. The above grading is done by COE office after taking into account both internal (Continuous assessment) marks together with end semester marks.

- 11.5. No student is considered to have completed a course successfully and earned the credits when he / she secure a Letter Grade of “NA” or “I”.

- 11.6. A Letter Grade of “NA” in any course implies the incompleteness of that course.

- 11.7. A course successfully completed can be repeated for the purpose of improving Cumulative Grade Point Average by re - registration.

## 12. METHOD OF AWARDING LETTER GRADES

- 12.1. In a reasonable time frame, the COE office will scrutinize the answer books by following “double valuation”. Then the finalized mark is converted to the Letter Grades to be awarded to the students for different courses.

- 12.2. Three copies of the Grade Sheets containing the marks awarded with Letter Grades and the results in terms of pass or incompleteness for each course, shall be forwarded to the concerned department.

## 13. REPETITION OF COURSES AND PROJECT WORK

- 13.1. A student who secures an “NA” grade in any core course has to repeat it compulsorily when the course is offered subsequently.

- 13.2. A student who secures an “NA” grade in an elective/supportive course shall have an option to repeat the course when it is offered subsequently or to choose a new elective/supportive course.

- 13.3. A student who secures an “NA” grade in the project work shall be required to reregister and carry out the project work in the subsequent semester.

## 14. GRADE CARD

The grade card issued at the end of each semester to each student by the COE office shall contain the following:

- 14.1. The credits for each course registered for that semester.

- 14.2. The performance in each course shown by the letter grade obtained.
- 14.3. The Grade Point Average (GPA) of all the courses registered for the semester.
- 14.4. The Cumulative Grade Point Average (CGPA) of all the courses studied from the first semester.
- 14.5. The maximum marks that can be obtained will be in direct proportion to the credit in the ratio of 25:1.
- 14.6. The total marks secured by the candidate for each of the courses in which the candidate appeared for the end semester examinations.
- 14.7. The GPA will be calculated according to the formula

$$\text{GPA} = \frac{\text{Sum of (C X GP)}}{\text{Sum of C}}$$

Where C = Credit for the course

GP = the Grade Point obtained for the course and the sum is over all the courses taken in that semester

GPA = Grade Point Average.

CGPA = Cumulative Grade Point Average

- 14.8. For the computation of cumulative grade point average (CGPA) a similar formula is used in which the sum is obtained by adding over all the courses taken in all the semesters completed up to the point in time and substituted in the formula used in the case of CGPA.
- 14.9. For both GPA and CGPA calculation, NA-Grade is also included but not I-Grade.
- 15. ELIGIBILITY FOR THE AWARD OF THE POST-GRADUATE DEGREE**
- A student shall be declared to be eligible for the award of the Degree diploma, when he/she has fulfilled the following conditions.
- 15.1. Registered for and undergone all the core/elective and supportive courses and completed the Project Work or filed trip, etc if any as prescribed by the Scheme of Examinations.
- 15.2. Successfully acquired the required credits under elective and supportive courses as specified in the curriculum of the Programme within the stipulated time.
- 15.3. Has a CGPA of 3.0 or higher.
- 15.4. Has no dues to the University, Hostel and Library.
- 15.5. Has no disciplinary action pending against him/her.
- 15.6. Classification of the student for awarding the degree will be as follows.

- i). A, "7-point" scale ranging from 0 – 6 as given under 11.2. shall be adopted to classify the Student for awarding the degree as shown below:

S.No.	C.G.P.A.	Classification
a	5.5 and above	First class with Distinction
b	5 and above but below 5.5	First class
c	3.0 and above but below 5	Second class

- ii). No student who has obtained NA – or I- grade in any course shall be classified under First class with Distinction. (11.3)
- iii). No student who has not completed the programme within the minimum number of semesters as per section 2.7. shall be classified under first class with distinction.

**16. PROCEDURE FOR REDRESSAL ON THE AWARDED MARK**

The COE office is involved in valuation of answer scripts of various courses conducted as the end semester examination (75 marks). The answer scripts of different courses are subjected to two valuations. They are called as first and second valuation. Whenever the different marks between first and second valuation is within 14% marks, the average of the two marks will be taken as the mark secured and the results are declared by the COE. If the difference in mark is 15% and above, it will be referred to a third examiner and the third valuation will be compared with the nearest two other marks in arriving the average mark.

- 16.1. When a student is aggrieved with regard to the award of mark to course(s), he/she shall make a formal representation on the matter to the COE through the HOD in the prescribed form and fees within the stipulated time.
- 16.2. At COE office, the marks awarded for each answer will be re-totaled by a competent authority. The result of the re-totaled will be intimated to the candidate and HOD within 15 days.

The above redressal mechanism is applicable only to the theory paper(s).