

BIJU PATNAIK UNIVERSITY OF TECHNOLOGY , ODISHA

MBA Structure
Choice Based Credit System
EFFECTIVE FROM 2015-16
1ST Year MBA

1st Semester

Code No.	Subjects	Credit	University Marks	Internal	Total Marks
MNG 101	Statistics and Decision Science	4	100	50	150
MNG 102	Marketing Management	4	100	50	150
MNG 103	Financial Accounting and Analysis	4	100	50	150
MNG 104	Economics for Management	4	100	50	150
MNG 105	Management Principles and Practices	3	100	50	150
MNG 106	Organizational Behaviour	3	100	50	150
MNG 107	English Communication Skills	3	100	50	150
MNG 108	ECS Lab	2	-	100	100
	Total	27	700	450	1150

2nd Semester

Code No.	Subjects	Credit	University Marks	Internal	Total Marks
MNG 201	Research Methodology	3	100	50	150
MNG 202	Business, Environment and Society	3	100	50	150
MNG 203	Financial Management	4	100	50	150
MNG 204	Banking and Insurance	3	100	50	150
MNG 205	Operations Management	4	100	50	150
MNG 206	Human Resource Management	4	100	50	150
MNG 207	Managerial Communication	2	100	50	150
MNG 208	Managerial Communications Skill Lab	2	-	100	100
MNG 209	Business Data Analysis Lab	2	-	100	100
	Total	27	700	550	1250

3rd Semester

Code No.	Subjects	Credit	University Marks	Internal	Total Marks
MNG 301	Cost and Management Accounting	3	100	50	150
MNG 302	Business Law	3	100	50	150
MNG 303	Entrepreneurship and Business Incubation	3	100	50	150
MNG 304	Elective-I (Major)	4	100	50	150
MNG 305	Elective-II (Major)	4	100	50	150
MNG 306	Elective-III (Major)	4	100	50	150
MNG 307	Elective-IV (Minor)	4	100	50	150
MNG 308	Summer Internship	3	100	-	100
	Total	28	800	350	1150

4th Semester

Code No.	Subjects	Credit	University Marks	Internal	Total Marks
MNG 401	Strategic Management	3	100	50	150
MNG 402	Elective-V (Major)	4	100	50	150
MNG 403	Elective-VI (Minor)	4	100	50	150
MNG 404	Open Elective	4	100	50	150
MNG 405	Project Work on Business Management and Viva	3	-	100	100
	Total	18	400	300	700

MCA Structure
Scheme of Instruction and Evaluation
I-VI Semester of MCA Programme
Choice Based Credit System
1st Year MCA

Code No	Subject	Theory				Practical		
		Lecture Hrs/Week	Credit Theory	University Marks	Internal Evaluation	Hours/Week L/T	Credit Practical	Marks
	Semester – 1							
MCA 101	Problem Solving and Programming Using C	3	3	100	50	6	3	50
MCA 102	Computer Organization and Architecture	3	3	100	50	2	2	50
MCA 103	Business Information System	3	3	100	50			
MCA 104	Computer Oriented Numerical Methods	3	3	100	50			
MCA 105	Engineering Economics	3	3	100	50			
MCA 106	Business Communication	3	3	100	50	2	1	50
TOTAL		18	18	600	300	10	06	150
TOTAL Marks: 1050								
Total Credits: 24								

Code No	Subject	Theory				Practical		
		Lecture Hrs/Week	Credit Theory	University Marks	Internal Evaluation	Hours/Week L/T	Credit Practical	Marks
	Semester – 2							
MCA 201	Data Structure using C	3	3	100	50	06	2	50
MCA 202	Object Oriented Programming using C ++	3	3	100	50	2	2	50
MCA 203	Operating systems	3	3	100	50	2	2	50
MCA 204	Principles and Practice of Management	3	3	100	50			
MCA 205	Green IT	3	3	100	50			
MCA 206	Mathematical Computing	3-1	3	100	50			
TOTAL		19	18	600	300	10	06	150
TOTAL Marks: 1050								
Total Credits: 24								

Code No	Subject	Theory				Practical		
		Lecture Hrs/Week	Credit Theory	University Marks	Internal Evaluation	Hours/Week L/T	Credit Practical	Marks
Semester – 3								
MCA 301	Design Analysis and Algorithms	3	3	100	50	2	2	50
MCA 302	Theory of Computation	3	3	100	50			
MCA 303	Computer Networks	3	3	100	50	2	2	50
MCA 304	Database Management Systems	3	3	100	50	2	2	50
MCA 305	Quantitative Techniques (OR & SM)	3	3	100	50			
MCA 306	Advance OS	3	3	100	50			
MCA 307	Minor Project					6	2	100
TOTAL		18	18	600	300	14	08	250
TOTAL Marks: 1150								
Total Credits: 26								

Code No	Subject	Theory				Practical		
		Lecture Hrs/Week	Credit Theory	University Marks	Internal Evaluation	Hours/Week L/T	Credit Practical	Marks
Semester – 4								
MCA 401	Programming with Java	3	3	100	50	2	2	50
MCA 402	Computer Graphics and Multimedia	3	3	100	50	2	1	50
MCA 403	Software Engineering	3	3	100	50	2	1	50
MCA 404	Compiler Design and Language Processor	3	3	100	50	2	1	50
MCA 405	Personality and Soft Skill Development					6	2	150
MCA 406	Elective I	3	3	100	50			
MCA 407	Group Discussion/Seminar					4	2	100
TOTAL		15	15	500	250	16	09	400
TOTAL Marks: 1200								
Total Credits: 24								

Code No	Subject	Theory				Practical		
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		Lecture Hrs/Week	Credit Theory	University Marks	Internal Evaluation	Hours/Week L/T	Credit Practical	Marks
	Semester – 5							
MCA 501	Artificial Intelligence and Expert System	3	3	100	50	2	1	50
MCA 502	Object Oriented Analysis and Design with UML	3	3	100	50	2	1	50
MCA 503	Internet Technology and Enterprise Java	3	3	100	50	2	1	50
MCA 504	Elective II	3	3	100	50			
MCA 505	Elective III	3	3	100	50			
MCA 506	Elective IV (Open)	3	3	100	50			
MCA 507	Professional Ethics	2-1	2	100	50			
MCA 508	Minor In-house Project and Viva					6	3	150
MCA 509	Summer Internship Evaluation					0	2	100
TOTAL		21	20	700	350	12	08	700
TOTAL Marks: 1750								
Total Credits: 28								

Sixth Semester						
Training cum Project					Evaluation Scheme	
Code	Course Name	Hours/week L/T	Credit Theory	Total Marks		Marks
MCA 601	Industrial Training cum Project/ Entrepreneurship Training cum Project	30	20	1000	Evaluation by the Industry	500
					Evaluation by the Institute (Report & Institute Viva)	500
Total		30	20	1000		1000
Total Marks:1000						
Total Credits:20						

Elective – I (Choose any one)

1. MCA406A: **EmbeddedSystem**
2. MCA406B: **Data Mining and Analysis/ Data MiningTechniques**
3. MCA406C: **Wireless Communication and MobileComputing**
4. MCA406D: **ERP andE-commerce**
5. MCA406E: **PHP and MySQL**

Elective –II (Choose any one)

1. MCA504A: **Cryptography and CyberLaw**
2. MCA504B: **Business Analytics and BigData**
3. MCA504C: **CloudComputing**
4. MCA504D: **Information Security andManagement**
5. MCA504E: **Dot NetProgramming**

Elective –III (Choose any one)

1. MCA505A: **Distributed System/ Distributedtechnology**
2. MCA505B: **ParallelComputing**
3. MCA505C: **SoftComputing**
4. MCA505D: **Foundations of Statistical NaturalProcessing(NLP)**
5. MCA505E: **Microprocessor and Assembly Level LanguageProgramming**

Elective –IV (Open - Choose any one)

1. MCA506A: **Mobile ApplicationDevelopment**
2. MCA506B: **SoftwareTesting**
3. MCA506C: **Open SourceTechnology**
4. MCA506D: **E-Governance andPractice**
5. MCA506E: **Internet ofThings**
6. MCA506F: **EntrepreneurshipDevelopment**
7. MCA507G: **MarketingManagement**
8. MCA508H: **EnvironmentalEngineering**

MASTER OF FINANCE & CONTROL M.Com (FC)
SYLLABUS

SEMESTER-1		SEMESTER-2	
Paper	Title	Paper	Title
1.1	Management Concepts & OB	2.1	Management of Financial Institutions
1.2	Economic Analysis & decision Making	2.2	Accounting for Managerial Decision
1.3	Financial Accounting	2.3	Risk & Insurance Management
1.4	Quantitative Techniques for Management	2.4	Investment Analysis & Equity Research

1.5	Marketing management	2.5	Merchant Banking & Financial Services
1.6	Financial Management	2.6	International business
1.7	Business & financial environment	2.7	Mutual Fund & Portfolio Management.
1.8	Financial Markets & Instruments	2.8	Research Methodology & Business Communication

SEMESTER-3		SEMESTER-4	
Paper	Title	Paper	Title
3.1	Financial derivatives & Risk Management	4.1	Strategic Financial Management
3.2	International Finance	4.2	Corporate governance & business Ethics
3.3	IT for Managers	4.3	Commodity Markets & Futures
3.4	Strategic Management	4.4	Retail Management
3.5	Tax planning & Management	4.5	Business & Corporate Law
3.6	Service Marketing	4.6	Accounting Standards & Small Business Management
3.7	Corporate Re-structuring & Financial Engineering	4.7	Entrepreneurship & Small Business Management
3.8	Training Projects	4.8	Project & Viva voice

ASTER IN PERSONNEL MANAGEMENT & INDUSTRIAL RELATIONS (MPMIR)

SYLLABUS

SEMESTER-I

Sl. No.	Course Name	Marks
101.1	Principles & Practices of Management	100
101.2	Industrial Relations-I (Employment Relations & Unionism)	100
101.3	Human Resource Management	100
101.4	Labour Legislations & Case Laws-I	100
101.5	Social Research & Statistics (SRS- I)	100
101.6	General, Labour & Industrial Economics	100
101.7	Organizational Behaviour –I	100
101.8	Industrial Psychology	100

SEMESTER-II

Sl. No.	Course Name	Marks
201.1	Organizational Behaviour -II	100
201.2	Industrial Relations-II (Contemporary Issues in IR)	100
201.3	Labour Legislations & Case Laws-II	100
201.4	Performance Management	100

201.5	Learning and Development	100
201.6	Social Security & Unorganized Sector	100
201.7	Quantitative Methods & Statistics (SRS-II)	100
201.8	Field Work –Report preparation + presentation(in presence of an External Examiner from academics/Industry & all faculty Members)	75+25=100

SEMESTER-III

Sl. No.	Course Name	Marks
301.1.	Human Resource Development	100
301.2	Productivity Management & TQM	100
301.3	Organization Change & Development	100
301.4	Financial & Marketing Management	100
301.5	MIS & HRIS	100
301.6	Corporate Social Responsibility	100
301.7	Elective Paper-1 (GR-A-HRP & D/ GR-B-CER & TU)	100
301.8	Elective Paper-2(GR-A-HRP & D/GR-B- CER & TU)	100

*A student has to choose any one group for Papers 301.7 & 301.8

SEMESTER-IV

Sl. No.	Course Name	Marks
401.1.	Compensation Management	100
401.2	Strategic HRM	100
401.3	International HRM	100
401.4	Labour Administration	100
401.5	Talent & Knowledge Management	100
401.6	Ethics & Management	100
401.7	Comprehensive viva voce(all faculty members & an external from industry) & Group Presentation (All faculty members & an external from academics)	50+50
401.8	Dissertation & Viva voce The viva voce shall be conducted by an external from academics and all faculty members.	75+25=100

MASTER IN ARTS (SOCIAL WORK)(MSW)**SYLLABUS**

SEMESTER-1				
Paper	Course Code	Course Title	Credit Unit	Marks
01	SWFC-01	Foundations of Social Work:History,Philosopy,Ethics,& Theories in Social Work	4	100
02	SWFC-02	Social Science Concepts I: Social structure , social institutions & social change	4	100
03	SWFC-03	Social Science Concepts II:PoliticalJudical& Economic System	4	100
04	SWFC-04	Social Science Concepts III:Poverty,Inequality& social Exclusion	4	100
05	SWFC-05	Social Science ConceptsIV: Psychological Concepts,HumanBehaviour& Relationships	4	100
06	SWFC-06	Orientation Visit Group Lab Concurrent Field Work	8	200
TOTAL			28	700

SEMESTER-2				
Paper	Course Code	Course Title	Credit	Mark
07	SWCP-01	Working with Individuals	2	50
08	SWCP-02	Working with Groups	2	50
09	SWCP-03	Working with Communities	4	100
10	SWCP-04	A Human Rights Approach to social Work Practice	4	100
11	SWCP-05	Social Welfare Administration	4	100
12	SWCP-06	Social Work Research & Statistics	4	100
13	SWCP-07	Concurrent Field Work + Rural Camp	8	200
TOTAL			28	700

SEMESTER-3				
Paper	Course Code	Course Title	Credit	Mark
14	SWCP-08	Child Protection & Child Rights	4	100
15	SWCP-09	Social Work with Women:Issue of gender & development	4	100
16	SWCP-10	Ethnic Sensitive Social Work Practice in India	4	100
17	SWCP-11	Rights of persons with Disabilities & their Rehabilitation	4	100
18	SWCP-12	Community Health & Social Workers	4	
19	SWCP-13	Social Management	4	
20	SWCP-14	Concurrent Field Work	8	
21	SWEP-01	School Social Work	2	
	SWEP-02	Working with women		

	SWEP-03	Working with Alchholics& Substance Abusers		
	SWEP-04	Correctional Social Work		
	SWEP-05	Counselling in Social work		
	SWEP-06 (Any One)	Social work with the Elderly		
TOTAL			34	

SEMESTER-4				
Paper	Course Code	Course Title	Credit	Mark
22	SWCP-15	Development Theories & Strategies: Issues Challenges & Resources	4	
23	SWCP-16	Social Work Practice in Rural Areas	4	
24	SWCP-17	Social Work Practice in Urban Areas: Migration, Unorganized Labour & Livelihoods	4	
25	SWCP-18	Social Policy, Planning & Implementation	4	
26	SWCP-19	Development Communciation	4	
27	SWCP-20	Sustainable Agriculture	4	
28	SWCP-21	Dissertation : Research Project	4	
29	SWCP-22	Concurrent Field Work + Block Placement	2	340
30	SWEP-07	Entrepreneurship Development	2	30
	SWEP-08	NGO Management		
	SWEP-09	Project Management		
	SWEP-10	Disaster Management		
	SWEP-11 (Any One)	People Centred Advocacy		
TOTAL			34	740

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

SYLLABUS

1st Semester			
Code	Subject	Credit	Marks
101	Introduction to Business	4	100
102	English Language and Literature	4	100
103	Quantitative Techniques for Management	4	100
104	Basic Financial Accounting	4	100
2nd Semester			
Code	Subject	Credit	Marks
201	Economics	4	100
202	Management Theory and Practice	4	100
203	Cost and Management Accounting	4	100
204	Computer for Management (including practical)	4	100
3rd Semester			
Code	Subject	Credit	Marks

301	Psychology for Management	4	100
302	Business Ethics and Corporate Governance	4	100
303	Introduction to Banking and Insurance	4	100
304	Business and Corporate Law	4	100
305	Communicative English	2	50
4th Semester			
Code	Subject	Credit	Marks
401	Financial Management	4	100
402	Marketing Management	4	100
403	Human Resource Management	4	100
404	Production and Operation Management	4	100
405	Environmental Studies	2	50
5th Semester			
Code	Subject	Credit	Marks
501	Organizational Behavior	4	100
502	Financial Markets and Institutions	4	100
503	Advertisement and Sales Promotion	4	100
504	Management Information System and DSS (including practical)	4	100
505	Indian Society and Culture	2	50
6th Semester			
Code	Subject	Credit	Marks
601	Research Methodology	4	100
602	Entrepreneurship and Small Business Management	4	100
603	Organizational Change and Development	4	100
604	Dissertation and Viva-voce	4	100
605	E-Business	2	50

Bachelor in Computer Applications(BCA), Utkal University

Effective from 2016-17 Academic Session

S E M E S T E R	COURSE OPTED	COURSE NAME	C R E D I T S
	Ability Enhancement Course-I	English/ M I L	2

I	Core Course-I	Programming using C	4
	Core Course-I Practical	C LAB	2
	Core Course-II	Computer Organization	4
	Core Course-II Practical	Computer Organization LAB	2
	Generic Elective-I	Discrete Structures	4
	Generic Elective-I Practical	Discrete Structures LAB	2
II	Ability Enhancement Course-II	Environmental Science	2
	Core Course-III	Programming using C++	4
	Core Course-III Practical	C++ LAB	2
	Core Course-IV	Data Structures	4
	Core Course-IV Practical	Data Structures LAB	2
	Generic Elective-II	Numerical Techniques	4
	Generic Elective-II Practical	Numerical Techniques LAB	2
III	Core Course-V	JAVA Programming	4
	Core Course-V Practical	JAVA Programming LAB	2
	Core Course-VI	Computer Architecture	4
	Core Course-VI Practical	Computer Architecture LAB	2
	Core Course-VII	Operating System	4
	Core Course-VII Practical	Operating System LAB	2
	Skill Enhancement Course-I	HTML Programming	2
	Generic Elective-III	Statistics and Probability	4
	General Elective-III Practical	S&P LAB	2
	IV	Core Course-VIII	Data Communication
Core Course-VIII Practical		Data Communication LAB	2
Core Course-IX		Database Systems	4
Core Course-IX Practical		Database Systems LAB	2
Core Course-X		Microprocessor	4
Core Course-X Practical		Microprocessor LAB	2

	Skill Enhancement Course-II	PHP Programming	2
	Generic Elective-IV	Programming in Visual Basic	4
	General Elective-IV Practical	Visual Basic LAB	2
V	Core Course-XI	Software Engineering	4
	Core Course-XI Practical	Software Engineering LAB	2
	Core Course-XII	Computer Graphics	4
	Core Course-XII Practical	CG LAB	2
	Discipline Specific Elective-I	Accounting & Financial Management	4
	Discipline Specific-I Practical	AFM LAB	2
	Discipline Specific Elective-II	Programming in .NET	4
	Discipline Specific Elective-II Practical	.NET LAB	2
VI	Core Course-XIII	Internet Technology	4
	Core Course-XIII Practical	Internet Technology LAB	2
	Core Course-XIV	Multimedia & Applications	4
	Core Course-XIV Practical	Multimedia & Applications LAB	2
	Discipline Specific Elective-III	E-Commerce	4
	Discipline Specific Elective-III Practical	E-Commerce LAB	2
	Discipline Specific Practical Work	Project-Work	8

BSc.(COMP. Sc.)

SYLLABUS

SEMESTER	COURSE OPTED	COURSE NAME	CREDITS
I	Ability Enhancement Course-I	M I L/English	2
	Core Course-I	Programming using C	6
	Core Course-I Practical	Programming using C LAB	2
	Core Course-II	Computer Organization	4
	Core Course-II Practical	CO LAB	2
	Core Course-III	Probability & Statistics	6
II	Ability Enhancement Course-II	Environmental Science	2
	Core Course-IV	Data Structure	6
	Core Course-IV Practical	Data Structure LAB	2
	Core Course-V	Programming using C++	6

	Core Course-VI Practical	Programming using C++	2
III	Core Course-VII	Operating Systems	6
	Core Course-VII Practical	OS LAB	2
	Core Course-VIII	Database Management System	4
	Core Course-IX Practical	Database Management System Lab	2
	Skill Enhancement Course-I	HTML Programming	4
IV	Core Course-X	Computer Networks	6
	Core Course-X Practical	Computer Network Lab	2
	Core Course-XI	Java Programming	6
	Core Course-XII Practical	Java Programming Lab	2
	Skill Enhancement Course-II	VB.NET	2
V	Skill Enhancement Course-III	Android Programming	4
	Discipline Specific Elective-I	Internet Technology	6
	Discipline Specific Elective-II	Software Engineering	6
	Discipline Specific Elective-III	E-Commerce Technologies	6
VI	Skill Enhancement Course-IV	PHP Programming	4
	Discipline Specific Elective-IV	Cloud Computing	6
	Discipline Specific Elective-V	Data Mining	6
	Discipline Specific Elective-VI	Project Work	6

BSc (ITM)

SYLLABUS

SEMESTER	COURSE OPTED	COURSE NAME	CREDITS
I	Ability Enhancement Course-I	M I L	2
	Core Course-I	Programming using C	4
	Core Course-I Practical	C LAB	2
	Core Course-II	Computer Organization	4
	Core Course-II Practical	CO LAB	2
	Core Course-III	Personal Management and Organizational Behaviour	4
	Generic Elective-I	Discrete Structures	4
	Generic Elective-I Practical	Discrete Structures LAB	2
II	Ability Enhancement Course-II	Environmental Science	2
	Core Course-IV	Programming using C++	4
	Core Course-IV Practical	C++ LAB	2
	Core Course-V	Data Structures	4
	Core Course-V Practical	Data Structures LAB	2
	Generic Elective-II	Statistics for Business	4
	Generic Elective-II Practical	Statistics LAB	2
III	Core Course-VI	Operating Systems	4
	Core Course-VI Practical	OS LAB	2
	Core Course-VII	Business Accounting	4
	Core Course-VII Practical	Business Accounting LAB	2
	Core Course-VIII	Managerial Economics	4

	Skill Enhancement Course-I	Business Communication	2
	Generic Elective-III	Numerical Techniques	4
	General Elective-III Practical	Numerical Techniques LAB	2
IV	Core Course-IX	JAVA Programming	4
	Core Course-IX Practical	JAVA LAB	2
	Core Course-X	Database Management System	4
	Core Course-X Practical	Database LAB	2
	Core Course-XI	Management Accounting	4
	Core Course-XI Practical	Management Accounting LAB	2
	Skill Enhancement Course-II	HTML Programming	2
	Generic Elective-IV	Quantitative Techniques(QT)	4
	General Elective-IV Practical	QT LAB	2
V	Core Course-XII	Data Communication	4
	Core Course-XII Practical	Data Communication LAB	2
	Core Course-XIII	Software Engineering	4
	Core Course-XIII Practical	Software Engineering LAB	2
	Discipline Specific Elective-I	Programming in VB	4
	Discipline Specific-I Practical	VB LAB	2
	Discipline Specific Elective-II	Financial Management	4
	Discipline Specific Elective-II Practical	Financial Management LAB	2
VI	Core Course-XIV	Internet Technology	4
	Core Course-XIV Practical	Internet Technology LAB	2
	Core Course-XV	Programming in .NET	4
	Core Course-XV Practical	.NET LAB	2
	Discipline Specific Elective-III	e-Commerce	4
	Discipline Specific Practical Work	Project Work	8

BSc(Biotechnology) SYLLABUS

Year/Semester	Course Code	Title	Credit	Maximum Marks		
				Theory	Practical	Total
Semester-I	C-1	Biochemistry & Metabolism	6	75	25	100
	C-2	Cell Biology	6	75	25	100
	AECC-1	MIL Communication	2	50		50
	GE-1	Development Biology	6	75	25	100
		Total	20			350

Year/Semester	Course Code	Title	Credit	Maximum Marks		
				Theory	Practical	Total
Semester-II	C-3	Mammalian Physiology	6	75	25	100
	C-4	Microbial and Plant Physiology	6	75	25	100
	AECC-2	EVS	2	50		50
	GE-2	Biotechnology and Human Welfare-1	6	75	25	100
		Total	20			350

Year/Semester	Course Code	Title	Credit	Maximum Marks		
				Theory	Practical	Total
Semester-III	C-5	Genetics	6	75	25	100
	C-6	General Microbiology	6	75	25	100
	C-7	Chemistry-1	6	75	25	100
	SEC-1	Molecular Diagnostic	2	50		50
	GE-3	Biotechnology, Biosafety and Human welfare 1 or 2(Bioethics and Biosafety)	6	75	25	100
		Total	26			450

Year/Semester	Course Code	Title	Credit	Maximum Marks		
				Theory	Practical	Total
Semester-IV	C-8	Molecular Biology	6	75	25	100
	C-9	Immunology	6	75	25	100
	C-10	Chemistry-2	6	75	25	100
	SEC-2	English	2	50		50
	GE-4	Entrepreneurship development	6	75	25	100
		Total	26			450

Year/Semester	Course Code	Title	Credit	Maximum Marks		
				Theory	Practical	Total
Semester-V	C-11	Industrial Fermentations	6	75	25	100
	C-12	Recombinant DNA technology	6	75	25	100
	DSE-1	Animal Diversity-I	6	75	25	100
	DSE-2	Plant Diversity-I	6	75	25	100
		Total	24			400

Year/Semester	Course Code	Title	Credit	Maximum Marks		
				Theory	Practical	Total
Semester-VI	C-13	Bio Analytical Tools	6	75	25	100
	C-14	Genomics and Proteomics	6	75	25	100
	DSE-3	Animal Diversity-I	6	75	25	100
	DSE-4	Plant Diversity-I	6	75	25	100

		Total	24		400
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SYLLABUS FOR B.COM HONS.

B.Com. Hons. (CBCS) for the Academic Year 2016-17						
	Course Structure	Category	Marks			Credits
	Semester I		Theory	Practical /Internal	Total	
BCH-1.1	Environmental Science	AECC-1	80	20 (I)	100	4
BCH-1.2	Financial Accounting	Core -1	80	20 (I)	100	6
BCH-1.3	Business Law	Core -2	80	20 (I)	100	6
BCH-1.4	Micro Economics	GE-1	80	20 (I)	100	6
Total			320/ 400	80/ 100	400/ 500	22/ 26
	Semester-II					
BCH-2.1	English Communication	AECC-2	80	20 (I)	100	4
BCH-2.2	Corporate Accounting	Core -3	80	20 (I)	100	6
BCH-2.3	Corporate Laws	Core -4	80	20 (I)	100	6
BCH-2.4	Macro Economics	GE-2	80	20 (I)	100	6
BCH-2.5	Computerized Accounting(Optional-I)	SEC-1	80	20(I)	100	4
Total			400	100	500	26
	Semester III					
BCH-3.1	Human Resource Management	Core-5	80	20 (I)	100	6
BCH-3.2	Income-tax Law and Practice	Core -6	80	20 (I)	100	6
BCH-3.3	Management Principles and Application	Core -7	80	20 (I)	100	6
BCH-3.4	Business Statistics	GE-3	80	20 (I)	100	6
BCH-3.5	E-Commerce(Compulsory)	SEC-2	80	20 (I)	100	4
Total			400	100	500	28
	Semester IV					
BCH-4.1	Cost and Management Accounting	Core -8	80	20 (I)	100	6
BCH-4.2	Business Mathematics	Core -9	80	20 (I)	100	6
BCH-4.3	Computer Applications in Business	Core -10	80	20 (I)	100	6
BCH-4.4	Indian Economy - Performance and Policies	GE-4	80	20 (I)	100	6
BCH-4.5	Entrepreneurship(Compulsory)	SEC-3	80	20 (I)	100	4
BCH-4.6	Personal Selling and Salesmanship(Optional-II) *	SEC-4	80	20 (I)	100	4
Total			400/ 480	100/ 120	500/ 600	28/32

	SEMESTER-V				
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	Course Structure	Category	Theory	Practical/Internal	Credit	Total
BCH-5.1	Principles of Marketing	Core -11	80	20(I)	100	6
BCH-5.2	Fundamentals of Financial Management	Core -12	80	20(I)	100	6
BCH-5.3	DSE-1 (Any one of the following)	DSE-1	80	20(I)	100	6
	A. Accounting and Finance	Financial Markets, Institution and Services				
	B. Banking and Insurance	Indian Banking and Insurance System				
	C. Financial Markets	Indian Financial System				
BCH-5.4	DSE-2 (Any one of the following)	DSE-2	80	20(I)	100	6
	A. Accounting and Finance	Financial Statement Analysis and Reporting				
	B. Banking and Insurance	Merchant Banking and Financial Services				
	C. Financial Markets	Financial Institutions and Services				
	Total		320	80	400	24

SEMESTER-VI						
	Course Structure	Category	Theory	Practical/Internal	Credit	Total
BCH-6.1	Auditing and Corporate Governance	Core -11	80	20(I)	100	6
BCH-6.2	Indirect Tax Law	Core -12	80	20(I)	100	6
BCH-6.3	DSE-3 (Any one of the following)	DSE-1	80	20(I)	100	6
	A. Accounting and Finance	Corporate Tax Planning				
	B. Banking and Insurance	Fundamentals of Investment				
	C. Financial Markets	Financial Market Operations				
BCH-6.4	Business Research Methods and Project Work*	DSE-2	50	50(I)	100	6
	Total		290	110	400	24
	Grand Total				2600 (min) 2800 (max)	148 (min) 156 (max)

SYLLABUS FOR B.Sc. HONS.

Semester	CORE COURSE (14) (Hons)	Ability Enhancement Compulsory Course (AECC)(2)	Skill Enhancement Course (SEC) (2)	Elective Discipline Specific(DSE)(4)	Elective: Generic (GE) (4)
I	C-1	Environmental Science			GE-1
	C-2				
II	C-3	MIL Communication (Odia/Hindi)			GE-2
	C-4				
III	C-5		SEC-1 (English Communication)		GE-3
	C-6				
	C-7				
IV	C-8		SEC-2		GE-4
	C-9				
	C-10				
V	C-11			DSE-1	
	C-12			DSE-2	
VI	C-13			DSE-3	
	C-14			DSE-4	

SYLLABUS FOR B.A. HONS.

Semester	CORE COURSE (14) (Hons)	Ability Enhancement Compulsory Course (AECC)(2)	Skill Enhancement Course (SEC) (2)	Elective Discipline Specific(DSE)(4)	Elective: Generic (GE) (4)
I	C-1	Environmental Science			GE-1
	C-2				
II	C-3	MIL Communication (Odia/Hindi)			GE-2
	C-4				
III	C-5		SEC-1 (English Communication)		GE-3
	C-6				
	C-7				
IV	C-8		SEC-2		GE-4
	C-9				
	C-10				
V	C-11			DSE-1	
	C-12			DSE-2	
VI	C-13			DSE-3	

MSC COMPUTER SCIENCE MSc(CS)
SYLLABUS

YEAR/ SEMESTER	SUBJECT	PAPER	TITLE OF THE PAPER	CREDIT	MAXIMUM MARKS		
					INTERN AL	UNIVERSITY EXAM	TOTAL
I Year I Semester	Core	CS-1.1	Data Structure and Algorithms	4	30	70	100
	Core	CS-1.2	Computer System Architecture	4	30	70	100
	Core	CS-1.3	Database Systems & Implementation	4	30	70	100
	Core	CS-1.4	Discrete Mathematical Structures	4	30	70	100
	Elective I	CS-1.5	(a)Visual Programming or (b)Object Oriented Design Using UML	4	30	70	100
	Core Practical	CS-1.6	Algorithms Lab	4		100	100
	Core Practical	CS-1.7	Database Lab	4		100	100
I Year II Semester	Core	CS-2.1	Computer Networks	4	30	70	100
	Core	CS-2.2	Advanced Java	4	30	70	100
	Core	CS-2.3	Operating System Design	4	30	70	100
	Core	CS-2.4	Theory of Computation	4	30	70	100
	Elective II	CS-2.5	(a)Data Mining or (b)Computer Graphics	4	30	70	100

	Core Practical	CS-2.6	Java Programming Lab	4		100	100
	Core Practical	CS-2.7	Operating System Lab	4		100	100
II Year III Semester	Core	CS-3.1	Artificial Intelligence	4	30	70	100
	Core	CS-3.2	Software Engineering	4	30	70	100
	Core	CS-3.3	Compiler Design	4	30	70	100
	Elective III	CS-3.4	(a)Network Security or (b)Cloud Computing	4	30	70	100
	Elective IV	CS-3.5	(a)Embedded System or(b)Mobile Computing	4	30	70	100
	Core Practical	CS-3.6	AI Programming Lab	4		100	100
	Core Practical	CS-3.7	Software Engineering Lab	4		100	100
II Year IV Semester		CS-4.1	Comprehensive Viva	4		100	100
		CS-4.2	Project Work and Viva voice	12		300	300
			Total	100			2500

+2 COMMERCE STREAM

The following combinations in Commerce Stream are allowed. Any deviation of this will not be entertained.

Compulsory Subjects

1. English
2. M.I.L. (Oriya / Telugu / Bengali / Urdu & Persian / Hindi / Alternative English)
3. Environmental Education
4. Yoga 5. Basic Computer Education

Elective Subjects

(Each elective subject carries 200 marks) (100 marks in 1st year and 100 marks in 2nd year)

1. Accountancy
2. Business Studies & Management
3. Business Mathematics & Statistics A Student shall have to offer any one of the following groups.

	1st year	2nd year
Group –I	Banking & Insurance	Cost Accounting
Group-II	Fundamentals of Entrepreneurship	Fundamentals of Management Accountancy
Group-III	Salesmanship	Business Economics
Group-IV	Information Technology –I	Information Technology-II

+2 SCIENCE STREAM

The following combinations in Science Stream are allowed. Any deviation of this will not be entertained.

Compulsory subject.

1. English
2. M.I.L. (Oriya / Telugu/ Bengali/ Urdu & Persian/ Hindi/ Sanskrit/Alternative English)
3. Environmental Education
4. Yoga
5. Basic Computer Education

Elective Subjects

1. Physics
2. Chemistry

A student shall have to offer any four Elective Subjects out of the following groups as 3rd and 4th elective.
Group - A for 3rd and 4th elective subject and Group B for 4th Elective.

- Group – A Mathematics / Biology / Geology (can be opted as either 3rd or 4th elective subject)
Group – B Electronics/Statistics/Geography/Computer Science/ Information Technology/
Biotechnology/Economics/Sanskrit (can be opted as 4th Elective Subject only).