PROPOSED COURSE STRUCTURE BBA 3 Years (Annual System)

(For Regular Students)

Group	Paper Number and Name	Theory Marks	Internal Assessment Marks	Total Marks
Group I	Paper I Principles of Management Paper II Communication Skills	40 40	20	100
Group II	Paper III Micro Economics Paper IV Business Statistics	40 40	20	100
Group III	Paper V Financial Accounting Paper VI Business Mathematics	40 40	20	100
BBA Secon	d Year		-	
Group IV	Paper VII Marketing Management Paper VIII Marketing Research	40 40	20	100
Group V	Paper IX Financial Management Paper X Project Management	40 40	20	100
Group VI	Paper XI Human Research Management Paper XII Organizational Behaviour	40 40	20	100
BBA Third	Year			
Group VII	Paper XIII Entrepreneurial Development Paper XIV Management Information System	40 40	20	100
Group VIII	Paper XV Business Environment Paper XVI Business Law	40 40	20	100
Group IX	Elective A: Marketing Paper XVII Consumer Behaviour Paper XVIII Advertising Management & Sales Promotion Or Elective B: Finance Paper XVIII Working Capital Management Paper XVIII Corporate Taxation Or Elective C: HRM Paper XVIII Human Resources Development Paper XVIII Wages and Salary Administration (The Student is required to select any one elective from elective A, B and C.)	40 40	20	100

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SYLLABUS SCHEME B.Com Ist Year

(w.e.f. 2019-20)

विषय /(Subjects)	प्रश्न-पन्न (Papers)
 लेखा समूह (Accounting Group) अनिवार्य विषय (Compulsory Subject) 	 वित्तीय लेखांकन Financial Accounting व्यवसायिक गणित Bussiness maths
2. प्रबंध समूह (Management Group) अनिवार्य विषय (Compulsory Subject)	 व्यवसायिक सन्नियम Business Law व्यवसायिक संगठन एवं सम्प्रेषण Bussines Organisation and Communication.
 व्यवहारिक अर्थशास्त्र समूह (Applied Economics Group)/वैकल्पिक विषय/व्यवसायिक पाठ्यकम समूह (Optional Subject Group) 	व्यष्टि अर्थशास्त्र Micro Economics समध्टि अर्थशास्त्र Macro Economics

नोट- व्यवसायिक पाठ्यकम के दोनों प्रश्न-पत्रों को वैकल्पिक समूह, व्यवहारिक अर्थशास्त्र (Applied Economics) के स्थान पर लिया जा सकता है।

SYLLABUS SCHEME B.Com 2nd Year

(w.e.f. 2020-21)

-	faun /(Subjects)	प्रश्न-पत्र (Papers)
1.	अनिवार्य विषय (Compulsary Subject) 2. प्रबंघ समूह (Management Group) अनिवार्य विषय (Compulsory Subject)	निगमीय लेखांकन (Corporate Accounting) परिव्यय लेखांकन (Cost Accounting)
2.	प्रबंध समूह (Management Group) अनिवार्य विषय (Compulsory Subject)	 सांख्यिकी के सिद्धांत (Principles of Statistics) प्रबंध के सिद्धांत (Principles of Management)
3.	व्यवहारिक अर्थशास्त्र समूह (Applied Economics Group) वैकल्पिक दिषय (Optional subject Group)	भारतीय कम्पनी अधिनियम (Indian Company Act) बैंकिंग एवं बीमा (Banking & Insurance) समझ व्यवहारिक अर्थशास्त्र (Applied Economics)

नोट- व्यवसायिक पाठ्यकम के दोनों प्रजा-पत्रों को वैकल्पिक समूह, व्यवहारिक अर्थशास्त्र (Applied Economics) के स्थान पर लिया जा सकता है।

SYLLABUS SCHEME B.Com 3rd Year

(w.e.f. 2019-20)

	प्रश्न-पन्न (Papers)
1. लेखा समूह (Accounts group) अनिवार्य विषय (Compulsary Subject)	1. आयकर विधि एवं व्यवहार (Income Tax Law & Practice) 2. वस्तु एवं सेवा कर तथा सीमा शुल्क (Goods & services Tax & Custom Duty)
2. प्रबंध समूह (Management Group) अनिवार्य विषय (Compulsory Subject)	1. अंकेशण (Auditing) 2. प्रबंधकीय लेखांकन (Management Accounting)
3. व्यवहारिक अर्थशास्त्र समूह (Applied Economics Group) वैकल्पिक विषय (Optional Subject	समूह अ (Group A) 1. लोक-वित्त (Public Finance) 2. वित्तीय प्रबंध (Financial Management)

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Group)	सगृह ब (Group B) 1. विपणन के सिद्धांत (Principles of Marketing) 2. अंतराष्ट्रीय विपणन (International marketing)
	शगृह स (Group C) 1. ई-वाणिज्य एवं विपणन (E-Commerce & Marketing) 2. वित्तीय बाजार और विनियोग प्रबंध (Financial Market & Investment Management)
~	समूह ग (Group D) 1. मानव संसाधन प्रबंध एवं अधौगिक संबंध (Human resource Management & Industrial Relation) 2. संगठनात्मक सिद्धांत एवं व्यवहार (Organisational Theory & Behaviour

नोट- 1. व्यवसायिक पाठ्यकम के दोनों प्रश्न-पत्रों को वैकल्पिक समूह, व्यवहारिक अर्थशास्त्र (Applied Economics) के स्थान पर लिया जा सकता है।

3. वैकल्पिक समूह अ,ब,स एवं ग (A,B,C,D) में से कोई भी एक समूह के दोनों प्रश्न पत्रों को लिया जायेगा।

(Dr. Paran mistry)

Stall , & ADAY Dr. J. K. & ADAY

उच्चशिक्षा विभाग, म.प्र. शासन

एम.कॉम. कक्षाओं के लिये सेमेस्टर अनुसार पाठ्यक्रम केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित तथा म.प्र. के राज्यपाल द्वारा अनुमोदित

Department of Higher Education Govt. of M.P. M.Com. semester wise Syllabus

As recommended by Central Board of Studies and approved by the Governor of M.P.

Syllabus of M.Com. Classes: At a Glance एम.कॉम. कक्षाओं का पाठयक्रम : एक दृष्टि में

सेमेस्टर	7-0-0	एम.कॉम. व						
(Semester)	अनिवार्य (Compulsory) या / Or वैकल्पिक (Optional)	विशिष्टकरण विषय समूह (Specialisation Subject Group)	प्रश्न पत्र क्रमांक Question Paper No.	प्रश्न पत्र का शीर्षक (Title of the Question Paper)	Marks Alloted for Two CCE दो सत्त समग्र मूल्यांकन के अंको का आबंटन	Marks Alloted for Semester Ending Main Exam सेमेस्टर अंत मुख्य परीक्षा के अंको का	Tan Mari Allian for Papa पत्र व लिए कुल अंकरें	
IV चतुर्थ	वैकल्पिक	E-501	I	Security Analysis		आबंटन	आवंट	
	(Optional) Financial Analysis & Control वित्तीय विश्लेषण एवं नियंत्रण	E-502 E-503	111	And Portfolio Management प्रतिभुति विश्लेषण एवं पोर्टफोलियो प्रबंध Strategic Financial Management व्यूहरचना वित्तीय प्रबंध	15	35	50	
	E-504	E-504		IV	Project Planning and Management परियोजना नियोजन तथा प्रबंध	15	35	50
		E-505	V	Indian Financial System भारतीय विल्तीय प्रणाली Employment Oriented Project Work रोजगार मूलक परियोजना कार्य	15	35	50	
	Total M	farks / कुल अंक				1		
						100	250	

एम.कॉम. कक्षाओं के लिये सेमेस्टर अनुसार पाद्यक्रम केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित तथा म.प. के राज्यपाल द्वारा अनुमोदित

Department of Higher Education Govt. of M.P. M.Com. semester wise Syllabus

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Syllabus of M.Com. Classes : At a Glance एम.कॉम. कक्षाओं का पाठयक्रम : एक दृष्टि में

enester)	अनिवार्य (Compulsory) या / Or वैकल्पिक (Optional)	विशिष्टकरण विषय समूह (Specialisation Subject Group)	प्रश्न पत्र क्रमांक Question Paper No.	प्रश्न पत्र का शीर्षक (Title of the Question Paper)	Marks Alloted for Two CCE दो सत्त समग्र मृत्यांकन के अंको का	Marks Alloted for Semester Ending Main Exam सेमेस्टर अंत मुख्य परीक्षा के अंको का आबंटन	Total Marks Alloted for Paper प्रश्न पन्न के लिए कुल अंकों का आबंटन
IV चतुर्थ	वैकल्पिक (Optional)	F-601	1	Corporate Accounting निगमीय लेखांकन	15	35	50
	Accounting लेखांकन	F-602	11	Cost Administration and Control	15	35	50
		F-603	ш	लागत प्रशासन एवं नियंत्रण Accounting Theory लेखांकन सिद्धांत	15	35	50
0		F-604	IV		15	35	50
		F-605	v	Institutional Accounting सरसागत लेखांकन Employment Oriented Project Work संचारार मुलक			50
	Total Mari	ks / বুল अंक					250

एम.कॉम. कक्षाओं के लिये सेमेस्टर अनुसार पाद्यक्रम केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित तथा म.प. के राज्यपाल द्वारा अनुमोदित

Department of Higher Education Govt. of M.P. M.Com. semester wise Syllabus

As recommended by Central Board of Studies and approved by the Governor of M.P.

Syllabus of M.Com. Classes : At a Glance एम.कॉम. कक्षाओं का पाठयक्रम : एक दृष्टि में

enester)	अनिवार्य (Compulsory) या / Or वैकल्पिक (Optional)	विशिष्टकरण विषय समूह (Specialisation Subject Group)	प्रश्न पत्र क्रमांक Question Paper No.	प्रश्न पत्र का शीर्षक (Title of the Question Paper)	Marks Alloted for Two CCE दो सत्त समग्र मृत्यांकन के अंको का	Marks Alloted for Semester Ending Main Exam सेमेस्टर अंत मुख्य परीक्षा के अंको का आबंटन	Total Marks Alloted for Paper प्रश्न पन्न के लिए कुल अंकों का आबंटन
IV चतुर्थ	वैकल्पिक (Optional)	F-601	1	Corporate Accounting निगमीय लेखांकन	15	35	50
	Accounting लेखांकन	F-602	11	Cost Administration and Control	15	35	50
		F-603	ш	लागत प्रशासन एवं नियंत्रण Accounting Theory लेखांकन सिद्धांत	15	35	50
0		F-604	IV		15	35	50
		F-605	v	Institutional Accounting सरसागत लेखांकन Employment Oriented Project Work संचारार मुलक			50
	Total Mari	ks / বুল अंक					250

उच्चशिक्षा विभाग, में.प्रै. शासन

एम.कॉम. कक्षाओं के लिये सेमेस्टर अनुसार पाठ्यक्रम केन्द्रीय अध्ययन मण्डल द्वारा अनुशंसित तथा म.प्र. के राज्यपाल द्वारा अनुमोदित

Department of Higher Education Govt. of M.P. M.Com. semester wise Syllabus

As recommended by Central Board of Studies and approved by the Governor of M.P.

Syllabus of M.Com. Classes : At a Glance एम.कॉम. कक्षाओं का पाठयक्रम : एक दृष्टि में

सेमेस्टर (Semester)	अनिवार्य (Compulsory) या / Or वैकल्पिक (Optional)	विशिष्टकरण विषय समूह (Specialisation Subject Group)	प्रश्न पत्र क्रमांक Question Paper No.	प्रश्न पत्र का शीर्षक (Title of the Question Paper)	Marks Alloted for Two CCE दो सत्त समग्र मृल्यांकन के अंको का आबंटन	Marks Alloted for Semester Ending Main Exam सेमेस्टर अंत मुख्य परीक्षा के अंको का	Total Marks Alloted for Paper प्रश्न पत्र के लिए कुल अंकों
IV चतुर्थ	वैकल्पिक (Optional) Taxation	G-701	/ I	Direct Tax In India भारत में	1,5	आयंटन 35	आवंटन 50
	कराधान	G-702	П	प्रत्यक्ष कर Business Taxation व्यवसायिक कराधान	15	35	50
		G-703	III	Indirect Taxation अप्रत्यक्ष कर	15	35	50
		G-704	IV	Sales and Service Tax विक्रय एवं सेवाकर	15	35	50
		G-705	V	Employment Oriented Project Work रोजगार मूलक परियोजना काय			50
	Total Mar	ks / कुल अक					250

BARKATULLAH UNIVERSITY, BHOPAL

FOURTH SEMESTER (EXAMINATION SCHEME) SESSION: 2016-17

M.SC. (BOTANY)

Course Code

6. Maximum marks

700

2. Course Name

: M.Sc Botany

7. Minimum Passing percentage: 36

3. Total Paper

4 : 2

8. Practical: Y

4. Compulsory Paper

5. Optional Paper 9. Practical Passing Marks: 36 each

Course	Paper		-			Theo		Supprison Co.	esseries -	Practical		Total		
Code	Code	Paper Name	Pap				CE		Marks	10000000				
_	_	C	1	Max	Min	Max	Min	Max	Min	Max	Min	Max	Mi	
	401	Compulsory Paper				-	1770000	The second		*************				
		Biotechnology and Tissue Culture	85	85	31	15	05	100	36	0	0	100	36	
	402	Applied Botany & Instrumentation	85	85	31	15	05	100	36	0	0	100	36	
	403	Elective paper The student may opt, any of the one following Elective paper.												
		Limnology	85	85	31	15	05	100	36	0	0	100	36	
		Industrial Microbiology	85	85	31	15	05	100	36	0	0	100	36	
	4 23	Taxonomy of Angiosperms	85	85	31	15	05	100	36	0	0	100	36	
		Applied Mycology	85	85	31	15	05	100	36	0	0	100	36	
		Forest Biology, Forest Vegetation of India and Management of Forest Resources	85	85	31	15	05	100	36	0	0	100	36	
		Plant and Society	85	85	31	15	05	100	36	0	0	100	36	
		Environmental Science	85	85	31	15	05	100	36	0	0	100		
	404 Elective paper The student may opt. any of	of the c						30	0	U	100	36		
		Plant Protection	85	85	31	15	05	100	36	0	0	100	36	
		Bioinformatics and Computer Application and Biostatistics	85	85	31	15	05	100	36	0	0	100	36	
		Molecular Biology and Biotechnology	85	85	31	15	05	100	36	.0	0	100	36	
		Pollution Ecology	85	85	31	15	05	100	36	0	0	100	36	
		Ethnobotany	85	85	31	15	05	100	36	0	0	100	36	
		Practical-I (401) Biotechnology and Tissue Culture (402) Applied Botany & Instrumentation	0	0	0	0	0	0	0	0	0	100	36	
		Practical-II (403) Elective Paper (404) Elective Paper	0	0	0	0	0	0	0	0	0	100	36	
		Internship/ Project	0	0	0	0	0	0	0	0	0	100	36	

BARKATULLAH UNIVERSITY, BHOPAL

Effective on Session: 2016-17 FOURTH SEMESTER

7. Maximum marks Course Code : 600 Course Name : M.Sc. (Zoology) 8. Minimum percentage 2. : 36% : 04 9. Internship/Project Marks 3. Total Paper : 100 Compulsory Paper : 02 10. Internship/ Project work : 36% Optional Paper : 02 11. Practical Passing mark : 18 Each

6. Practical : 02

Subject Name	Theory /							Prac	tical	To	tal
	-	Paper		C	CE		rks				
CONTRACTOR OF THE PERSON OF TH	Ist.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Ditt
pusiory paper Theory	- Lancon	-	-	-	77	-	A	-	-	-	-
Animal Behavior and Neurophysiology	85	85	31	15	05	100	36	0	0	100	36
Gamete Biology, Development and Differentiation	85	85	31	15	05	100	36	0	0	100	36
Optional (special paper) Group-1 (a) Fish Scthyology) structure and Function Or (b) Cell Biology	85	85	31	15	05	100	36	0	0	100	36
(c) Entomology Or -		70051 338m	Dib.		100			1150			
(d) Wild life conservation Or	,4	bros	-	o A							
[e] Biology of vertebrates Immune System Or		TU De			I SE	el.	ev.				
(f) Limnology Included in III Sem. as a compulsory paper	V	meen meen		in							
Optional (special paper) Group-2 [a.] Pisci culture and economic importance of fishes (Icthyology)	85	85	31	15	05	100	36	0	0	100	36
or (b) Cellular organization and molecular organization	85	85	31	15	05	100	36	0	0	100	36
or (c.) Applied entomology	85	85	31	15	05	100	36	0	0	100	36
(d.) Environment & Biodiversity conservation	85	85	31	15	05	100	36	0	0	1002	36
or (e) Molecular endocrinology and reproductive technology	85	85	31	I5	05	100	36	0	0		36
or (i) Limnology and fish productivity	85	85	31 -	18	05	100	36	0	0		4.3
Or Applied aquaculture	85	85	31	15	05	100	36	0	0	100	*

Or Protein Nucleic acids and metabolic regulation	85	85	31	15	05	100	36	0	0	100	36
Serioulture or	85	85	31	15	05	100	36	0	0	100	36
or Neurotoxicology	85	85	31	15	05	100	36	0	0	100	36
Microbial ecology and biology of parasitism	85	85	31	15	05	100	36	0	0	100	36
Practical - I Based on paper 1st and 1Ind theory paper	0	0	0	0	0	0	0	50	18	50	18
Practical - II Based on optional paper from group -1 and Gruep-2 50 or (25*25)	0	0	0	0	0	0	0	50	18	50	18
Project/Internship	0	Ó	0	0	0	0	0	0	0	100	36

- * Student has choice to opt one paper each (special paper) from group 1 and group-2 In Barkatullah University five optional paper-Group-I (a,b,c,d,e) and Group-II (a,b,c,d,e)
- ** Those optional papers which are not included in the syllabus, can be made at university level.

FOURTH SEMESTER

1. Course Code

7. Maximum marks: 300

2. Course Name

: M.Sc.

8. Minimum Passing percentage : 36

(Computer Science)

3. Total Paper

: 4

9. Project work: 50

4. Compulsory Paper : 3

10. Project passing marks: 18

5. Optional Paper

11. Practical: 2

6. Project : Y

12 Practical Passing Mark

Sub.	Subject Name	Theory										Practical		Total	
Code		Paper					CCE		Total Marks						
		100	2 nd	3/0	Max.	Min.	Max.	Min.	Max.	Min.	Max	Min.	Max	Min	
Comp	oulsory paper	-		-					1000		INICOA.	Twenty.	IVID.X.	Milk	
	UNIX INTERNALS, SHELL PROGRAMMING & LINUX	35	0	0	35	13	15	.5	50	18	0	0	50	18	
	COMPILER DESIGN	35	0	0	35	13	15	5	50	18	0	0	50	18	
	ASP.NET AND C#	35	0	0	35	13	15	5	50	18	0	0		\$9.T-	
lectiv	ve paper (any one)	10000	1000	(00)	38022	1000	1000	*	.00	10	0	0	50	18	
1	(i) Artificial Intelligence and Expert Systems	35	0	0	35	13	15	5	50	18	0	0	50	18	
1.4	(ii) Data Warehousing and Mining	35	0	0	35	13	15	6	50	18	0	0	50	18	
	(iii) Bioinformatics	35	0	0	35	13	15	5	50	18	0	0	50		
	(iv) Visual Basic & SQL	35	0	0	35	13	15	0.00	3776	Y. 700.	34.0	70	50	18	
	Practical-I ASP Net	0	125	VI-V	1782	35	0.08	5	50	18	0	0	50	18	
- 15	The state of the s	LLS:	0	0	0	0	0	0	0	0	50	18	50	18	
- 1	Practical-II Shell Programming (Linux/Unix)	0	0	0	0	0	0	0	0	0	50	18	50	.18	
1	Project	0	0	0	0	0	0	0	50	18	0	0	50	18	

विशेष टीप:- विद्वत परिषद की स्थाई समिति की बैठक दिनांक 26/12/08 के पद कमांक 8/13/43 के लिये गये निर्णय अनुसार स्नातकोत्तर में प्रोजेक्ट कार्य में 36 प्रतिशत उत्तीर्णाक अंक प्राप्त करना अनिवार्य होगा। तदानुसार प्रोजेक्ट के अंकों को श्रेणी प्रदाय हेतु गणना में नही लिया जावेगा।

Department of Higher Education, Govt. of M.P.
Post Graduate Semester wise Syllabus
as recommended by Central Board of Studies and approved by the Governor of M.P.
चच्च शिक्षा विभाग, ग.प्र. शासन
स्नातकोत्तर कक्षाओं के लिये सेमेस्टर अनुसार पाठ्यकम
केंद्रीय अध्ययन मण्डल हारा अनुशंसित तथा म. प्र. के राज्यपाल हारा अनुमोदित
Session (सत्र) 2010—2011

OPTIONAL PAPERS

Out of the following select any two papers each of marks 50:

OPT-1	MCH-504 Organotransition Metal Chemistry
OPT-2	MCH-505 Polymers
OPT-3	MCH-506 Heterocyclic Chemistry
OPT-4	MCH-507 Physical Organic Chemistry
OPT-5	MCH-508 Chemistry of Materials

Department of Higher Education, Govt. of M.P.

Post Graduate Semester wise Syllabus
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उच्च शिक्षा विभाग, म.प्र. शासन

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Session (सत्र) 2010—2011

- 12. Enzyme Structure and Mechanism, A Fersht, W.H. Freeman
- 13. Biochemistry: The Chemical Reactions of Living Cells, D.E. Metzler, Academic Press.

Class / कृक्षा : M.Sc.
Semester / सेमेस्टर : IV
Subject / विषय : Chemistry

Title of Subject Group : Organic Synthesis

विषय समूह का शीर्षक

Paper No. / प्रश्नपत्र कमांक : OPT-1 (Code- MCH-514)

Compulsory / अनिवार्य या Optional / वैकल्पिक अनिवार्य : Optional Max. Marks अधिकतम् अक

Department of Higher Education, Govt. of M.P. Post Graduate Semester wise Syllabus as recommended by Central Board of Studies and approved by the Governor of M.P. उच्च शिक्षा विमाग, म.प्र. शासन स्नातकोत्तर कक्षाओं के लिये सेमेस्टर अनुसार पाठ्यकम केंद्रीय अध्ययन मण्डल हारा अनुशंसित तथा म. प्र. के राज्यपाल हारा अनुमोदित Session (सत्र) 2010-2011

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OPT-3	MCH-506 Heterocyclic Chemistry
OPT-4	MCH-507 Physical Organic Chemistry
OPT-5	MCH-508 Chemistry of Materials

Department of Higher Education, Govt. of M.P. Post Graduate Semester wise Syllabus as recommended by Central Board of Studies and approved by the Governor of M.P. उच्च शिक्षा विमाग, म.प्र. शासन रनातकोत्तर कक्षाओं के लिये सेमेस्टर अनुसार पाठ्यकम केंद्रीय अध्ययन मण्डल हारा अनुशंसित तथा म. प्र. के राज्यपाल हारा अनुमोदित

Session (सत्र) 2010–2011

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- 13. Biochemistry: The Chemical Reactions of Living Cells, D.E. Metzler, Academic Press.

Class / कक्षा : M.Sc. Semester / सेमेस्टर : IV

Subject / विषय : Chemistry

Title of Subject Group : Organic Synthesis

विषय समूह का शीर्षक

Paper No. / प्रश्नपत्र क्मांक : OPT-1 (Code- MCH-514)

Compulsory / अनिवार्य या Optional / वैकल्पिक अनिवार्य Optional Max. Marks अधिकतम अंक : 50

B.Sc./B.A. Annual Examination System wise syllabus

Recommended by Central Board of studies

सत्र / Session : 2019-20

42.5

Max. Marks अधिकतम अक

Class/कशा : B.Sc./B.A. Year/वर्ष : Third/तृतीय

Subject/विषय : Mathematics/गणिल

Paper / प्रश्नपत्र : Third Optional-D / तृतीय एष्टिक-- डी Title/शीर्षक : Mathematical Modelling/ गणितीय मॉडलिंग

Unit-1	Mathematical modelling through ordinary differential equations of first order: Linear Growth and Decay models, Non-linear Growth and Decay Models,
	Dynamic problems, Geometrical problems.
ईकाई-1	प्रथम कोटि के साधारण अवकल समीकरणों द्वारा गणितीय मॉडलिंग रेखीय वृद्धि एवं इस्स मॉडल्स, अरेखीय वृद्धि एवं इस्स मॉडल्स, गतिकी समस्याए ज्यामितीय समस्थाएँ।
Unit-2	Mathematical modelling through system of ordinary differential equations of first order: Population Dynamics, Epidemics, Compartment models, Economic medicine, Arms Race, Battles and International Trade, Dynamics models.
ईकाई2	प्रथम कोटि के साधारण अवकल समीकरणों के निकायो द्वारा गणितीय मॉडलिंगः जनसंख्या गतिकी, महाभारी, उपखण्डीय, अर्थशास्त्रीय, विकित्सकीय, आर्म रेस, बैटल्स, अर्न्तराष्ट्रीय व्यापार एवं गतिकी मॉडल्स।
Unit-3	Mathematical modelling through ordinary differential equations of second order: Planetary Motions, Circular Motions and Motion of Satellites, Mathematical modelling through Linear differential equations of second order and miscellaneous mathematical models.
ईकाई-3	द्वितीय कोटि के साधारण अवकल समीकरणों द्वारा गणितीय मॉडलिंग प्रहीय गति, वृत्तीय गति एवं उपग्रहीय गति। द्वितीय कोटि के रैखिक अवकल समीकरणों द्वारा गणितीय मॉडलिंग एवं विविध गणितीय मॉडल्स।
Unit-4	Mathematical modelling through difference equations: Simples Models. Basic theory of linear difference equations with constants coefficients, economic and finance-population dynamics and genetics, probability theory.
ईकाई-4	अन्तर समीकरण द्वारा गणितीय मॉडलिंगः सरल मॉडल्स अचर गुणांको वाले रैखिक अन्तर समीकरणों के सिद्धांत एवं उनके द्वारा अर्थशास्त्रीय एवं वित्तीय, जनसंख्या गतिकी एवं जनांकिकी एवं प्राधिकता सिद्धांत में गणितीय मॉडलिंग।
Unit-5	Mathematical modelling through Graphs: Solutions that can be modelled through graph, mathematical modelling in terms of directed graphs, signed graphs, weighted digraphs and un-oriented graphs.

Year/वर्ष : Third/ तृतीय Subject/विषय : Mathematics/गणित

Paper / प्रश्नपत्र : Third Optional-A / तृतीय एव्छिक-ए Title/शीर्षक : Statistical methods/सांख्यिकीय विधियां

Note;- Simple Calculator will be allowed in the examination of this paper. नोट:- इस प्रश्न पत्र की परीक्षा में साधारण केलक्यूलेटर के उपयोग की अनुमति है।

Unit-I	Frequency distribution- Measures of central tendency, Mean, Median, Mode, G.M., H.M., Partition values, Measures of dispersion- Range, Interquartile range, Mean deviation, Standard deviation, Moments, Skewness and kurtosis,
ईकाई-1	आवृत्ति बंटन-केन्द्रीय प्रवृत्ति की माप, माध्य, माध्यका, बहुलक, गुणोत्तर माध्य, हरात्मक माध्य। विभाजनकारी मान, विक्षेपण की माप-परास, अन्तर्चतुर्थक परास, माध्य विचलन, मानक विचलन, आधूर्ण, वैषम्य और कुकुदता।
Unit-2	Probablity- Event, Sample space, Probablity of an event, Addition and multiplication theorems, Baye's theorem, Continuous probablity- probablity density function and its applications for finding the mean, mode, median and standard deviation of various continuous probablity distributions. Mathematical expectation, Expectation of sum and product of random variables, Moment generating function.
ईकाई-2	प्रायिकता— घटना, प्रतिदर्श समश्च्य किसी घटना की प्रायिकता, प्रायिकता की योग एवं गुणन प्रमेय, बेज का प्रमेय, सत्त प्रायिकता, प्रायिकता घनत्व फलन एवं विभिन्न सतत् प्रायिकता बंटनों के लिये माच्य, बहुलक, माध्यिका ज्ञात करने में इसके अनुप्रयोग, गणितीय प्रत्याशा, यादृष्टिकक चरों के योग एवं गुणन की गणितीय प्रत्याशा, आधूर्ण जनित फलन।
Unit-3	Theoretical distribution- Binomial, Poisson, rectangulars and exponential distributions, their properties and uses.

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B.Sc./B.A. Annual Examination System wise syllabus

Recommended by Central Board of studies

सत्र / Session : 2019-20

Max. Marks/अधिकतम अंक

42.5

Class/प्रशा

B.Sc/B.A.

Year/qu

Third/तृतीय

Subject/विषय

Mathematics/गणित

Paper / प्रश्नपत्र

Third Optional-B / तृतीय एन्छिक-बी

Title/शीर्षक

Discrete Mathematics/ विविक्त गणित

Unit-1	Boolean functions-disjunctive & cunjunctive normal forms (canonical & dual canonical), Bool's expansion theorem, Relations- Binary relation, Inverse relation, Composite relation, Equivalence relation, Equivalence classes & its properties Partition of a set.
ईकाई-1	बूलीय फलन वियोजनीय एवं संयोजनीय प्रसामान्य रूप (कंनोनिकल एवं डूअल केनानिकल), बूल का विस्तार प्रमेय। संबंध- द्विचर संबंध, प्रतिलॉम संबंध, संयोजित संबंध, तुल्यता संबंध, तुल्यता वर्ग एवं उसके गुण धर्म, समुख्यय का विभाजन।
Unit-2	Partial order relation, Partially ordered sets, totally ordered sets, Hasse diagram, maximal and minimal element, first and last element. Lattice- definition and examples, dual lattice, bounded lattice, distributive lattice, complemented lattice.
ईकाई-2	अशत कम संबंध, अंशत कमित समुच्चय, पूर्णत कमित समुध्यय, हैसूह आरेख, उच्चिष्ठ एवं निमनिष्ठ अवयव, प्रथम एवं अन्तिम अवयय, जालक –परिभाषां एवं उदाहरण, हैत जालक, परिबद्ध जालक, वितरणीय जालक, पूरक जालक।
Unit-3	Graph- Definition, types of graphs. Subgraphs, walk, path, circuit, connected and disconnected graphs. Euler graph. Hamiltonian path and circuit, shortest path in weighted graph, Dijkstra's Algorithm for shortest paths.
ईकाई-3	आलेख- परिभाषा एवं प्रकार उप आलेख, गमन, पथ एवं परिपथ, संबद्ध एवं असंबद्ध ग्राफ, ऑयलर ग्राफ, हेमिल्टोनियन पथ और परिपथ, भारित आलेख में लघुताम पथ हेतु

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B.Sc./B.A. Annual Examination System wise syllabus

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सत्र / Session : 2019-20

Max. Marks/अधिकतम अंक

42.5

Class/कक्षा

B.Sc./B.A.

Year/qu

Third/तृतीय

Subject/विषय

Mathematics गणित

Paper / प्रश्नपत्र Title/शीर्षक

Third Optional-C' / तृतीय एच्डिक-सी Mechanics / यात्रिकी

Unit-1	Analytical conditions of Equilibrium of Coplanar forces, Virtual work, Catenary.
ईकाई-1	समतलीय बलों की साम्यावस्था के वैश्लोषिक प्रतिबंध, कल्पित कार्य, रज्जुका।
Unit-2	Forces in three dimensions, Poinsot's central axis, Null lines and Planes. Stable and unstable Equilibrium.
ईकाई-2	त्रिविमीय बल, प्वासो का केन्द्रीय अक्ष, शून्य रेखाएँ एवं समतल, स्थिर एवं अस्थिर साम्यायस्था।
Unit-3	Velocites and accelerations along radial and transverse directions and along tangential and normal directions. Simple Harmonic motion. Elastic Strings, Projectile.
ईकाई3	त्रिज्यीय एवं अनुप्रस्थ दिशा में वेग एवं त्वरण, स्पर्श रेखीय एवं अभिलंब दिशाओं में वेग एवं त्वरण। सरल आवर्त गति प्रत्यास्थ डोरियों, प्रक्षेप्य।
Unit-4	Motion on smooth and rough plane curves. Motion in a resisting medium. Motion of particles of varying mass. Central orbits. Kepler's Law of motion.
ईकाई–4	चिकने एवं रूक्ष समतल वक पर गति प्रतिरोधी माध्यम में गति, परिवंतनीय द्रव्यमान वाले कणो की गति, सकेन्द्र कक्ष, केप्लर के गति के नियम।
Unit-5	Motion of a particle in three dimensions. Moments and Product of inertia
ईकाई-5	त्रिविमीय तल में किसी कण की गति. जड़त्व एवं गुणन आघुण

B.Sc./B.A. Annual Examination System wise syllabus

Recommended by Central Board of studies

सत्र / Session : 2019-20

42.5

Max. Marks अधिकतम अक

Class/कशा : B.Sc./B.A. Year/वर्ष : Third/तृतीय

Subject/विषय : Mathematics/गणिल

Paper / प्रश्नपत्र : Third Optional-D / तृतीय एष्टिक-- डी Title/शीर्षक : Mathematical Modelling/ गणितीय मॉडलिंग

Unit-1	Mathematical modelling through ordinary differential equations of first order: Linear Growth and Decay models, Non-linear Growth and Decay Models,
	Dynamic problems, Geometrical problems.
ईकाई-1	प्रथम कोटि के साधारण अवकल समीकरणों द्वारा गणितीय मॉडलिंग रेखीय वृद्धि एवं इस्स मॉडल्स, अरेखीय वृद्धि एवं इस्स मॉडल्स, गतिकी समस्याए ज्यामितीय समस्थाएँ।
Unit-2	Mathematical modelling through system of ordinary differential equations of first order: Population Dynamics, Epidemics, Compartment models, Economic medicine, Arms Race, Battles and International Trade, Dynamics models.
ईकाई2	प्रथम कोटि के साधारण अवकल समीकरणों के निकायो द्वारा गणितीय मॉडलिंगः जनसंख्या गतिकी, महाभारी, उपखण्डीय, अर्थशास्त्रीय, विकित्सकीय, आर्म रेस, बैटल्स, अर्न्तराष्ट्रीय व्यापार एवं गतिकी मॉडल्स।
Unit-3	Mathematical modelling through ordinary differential equations of second order: Planetary Motions, Circular Motions and Motion of Satellites, Mathematical modelling through Linear differential equations of second order and miscellaneous mathematical models.
ईकाई-3	द्वितीय कोटि के साधारण अवकल समीकरणों द्वारा गणितीय मॉडलिंग प्रहीय गति, वृत्तीय गति एवं उपग्रहीय गति। द्वितीय कोटि के रैखिक अवकल समीकरणों द्वारा गणितीय मॉडलिंग एवं विविध गणितीय मॉडल्स।
Unit-4	Mathematical modelling through difference equations: Simples Models. Basic theory of linear difference equations with constants coefficients, economic and finance-population dynamics and genetics, probability theory.
ईकाई-4	अन्तर समीकरण द्वारा गणितीय मॉडलिंगः सरल मॉडल्स अचर गुणांको वाले रैखिक अन्तर समीकरणों के सिद्धांत एवं उनके द्वारा अर्थशास्त्रीय एवं वित्तीय, जनसंख्या गतिकी एवं जनांकिकी एवं प्राधिकता सिद्धांत में गणितीय मॉडलिंग।
Unit-5	Mathematical modelling through Graphs: Solutions that can be modelled through graph, mathematical modelling in terms of directed graphs, signed graphs, weighted digraphs and un-oriented graphs.

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B.Sc./B.A. Annual Examination System wise syllabus

Recommended by Central Board of studies

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Max. Marks अधिकतम अंक ; 42.5 Class/कमा ; B.Sc./B.A. Year/वर्ष : Third/तृतीय

Subject/विषय : Mathematics/गणित

Paper / प्रश्नपत्र Third Optional-E / तृतीय एच्छिक-ई
Title/शीर्षक : Financial Mathematics/ वित्तीय गणित

Unit-1	Financial Management- Nature and Scope of Financial Management, Goals of Financial Management and main decisions of financial management. Difference between Risk, Speculation and Gambling.
ईकाई-1	वित्तीय प्रबंधन- वित्तीय प्रबंधन की प्रकृति एवं क्षेत्र, वित्तीय प्रबंधन के लक्ष्य एवं प्रमुख निर्णय, जोखिन, सट्टे एवं जुए में अन्तर।
Unit-2	Time value of Money-Interest rate and Discount Rate. Present value and Future value, discrete case as well as continuous compounding case. Annuities and its kinds.
ईकाई-2	मुद्रा का समयमान-ब्याज दर एवं बटटा दर वर्तमान मूल्य एवं भावी मूल्य, विविक्त और सतत् चक्रवर्ती वृद्धियाँ, वार्षिकी एवं उसके प्रकार।
Unit-3	Meaning of return, Return as Internal Rate of Return (IRR), Numerical methods like Newton Raphson Method to calculate IRR, Measurement of returns under uncertainty situations.
ईकाई-3	वापसी का अर्थ, वापसी की आन्तरिक दर, संख्यात्मक विधिया जैसे वापसी की आन्तरिक दर की गणना की न्यूटन सॅफसन विधि, अनिरुवय की अवस्था में वापसी की गणना।
Unit-4	Meaning of Risk, Difference between risk and uncertainty, Types of Risks, Measurements of Risk, Calculation of security and portfolio risk and Return-Markowitz Model, Sharpe's Single Index Model, Systematic Risk, and Unsystematic Risk.
ईकाई-4	जौखिम का अर्थ, जोखिम एवं अनिश्चय में अन्तर, जोखिम के प्रकार, जोखिम को मापना, प्रतिभूति एवं विनियोजन जोखिम एवं वापसी की गणना, मारकोविज मॉडल, शॉर्प का एकल सूचकांक मॉडल नियमित एवं अनियमित जोखिम।
Unit-5	Taylor series and Bond Valuation. Calculation of Duration and Convexity of Bonds, Financial Derivatives- Futures, Forward, Swaps and options, Call and Put Option, Call and Put Parity theorem.

Rosy of Mas un M. D.

Charles L

BARKATULLAH UNIVERSITY, BHOPAL

FOURTH SEMESTER (EXAMINATION SCHEME)

SESSION: 2016-17 M.SC. (BOTANY)

1. Course Code 6. Maximum marks

700

Course Name 2.

M.Sc Botany

7. Minimum Passing percentage: 36

3. Total Paper

8. Practical : Y

Compulsory Paper 4.

: 2

9. Practical Passing Marks: 36 each

5

Optional Paper : 2

			Theory							Practical		То	tal	
Course	Paper	Paper Name	Pape	F		C	CE	Total Marks				200		
Code	Code		1	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
		Compulsory Paper		11.000		en more	The contract					Link	-	
	401	Biotechnology and Tissue Culture	85	85	31	15	05	100	36	0	0	100	36	
	402	Applied Botany & Instrumentation	85	85	31	15	05	100	36	0	0	100	30	
	403	Elective paper The student may opt, any of the one following Elective paper.									1.792			
	-	Limnology	85	85	31	15	05	100	36	0	0	100	36	
	_	Industrial Microbiology	85	85	31	15	05	100	36	0	0	100	36	
	-	Taxonomy of Angiosperms	85	85	31	15	05	100	36	0	0	100	36	
		Applied Mycology	85	85	31	15	05	100	36	0	0	100	36	
	-	Forest Biology, Forest Vegetation of India and Management of Forest Resources	85	85	31	15	05	100	36	0	0	100	36	
		Plant and Society	85	85	31	15	05	100	36	0	0	100	36	
	1		85	85	31	15	05	100	36	0	0	100	36	
	404	Elective paper The student may opt. any	of the	one fo	llow	ng Ele	ective	paper.				400	1 36	
	_	Plant Protection	85	85	31	15	05	100	36	0	0	100	36	
	==	Bioinformatics and Computer Application and Biostatistics	85	85	31	15	05	100	36	0	0	100		
	_	Molecular Biology and Biotechnology	85	85	31	15	05	100	36	0	0	100	200	
	1	Pollution Ecology	85	85	31	15	05	100	36	0	0	100	-	
		Ethnobotany	85	85	31	15	05	100	36	0	0	100	_	
	14	Practical-I (401) Biotechnology and Fissue Culture (402) Applied Botany & Instrumentation	0	0	0	0	0	0	0	0	0	100		
		Practical-II (403) Elective Paper (404) Elective Paper	0	0	0	0	0	0	0	0	0	100		
		Internship/ Project	0	0	0	- 0	.0	0	0	0	0	100) 3	

बरकतउल्ला विश्वविद्यालय,भोपाल Barkatullah University, Bhopal

As per model syllabus of U.G.C. New Delhi, drafted by Central Board of Studies and Approved by Higher Education and the Governor of M.P.



जीव विज्ञान संकाय
Faculty of Life Science
पाठ्यकम एवं निर्धारित पुस्तकें
Syllabus & Prescribed Books

एम.एस.सी. (वनस्पतिशास्त्र) चतुर्थ सेमेस्टर (संशोधित पाठ्यक्रम) परीक्षा 2016-17 M.Sc. (Botany) Fourth Semester (Revised Syllabus) Examination 2016-17

_{प्रकाशक} कुलसचिव बरकतउल्ला विश्वविद्यालय,भोपाल

2016-17

D	Andrews Comment	V 10	-	Part A I	ntroduction						
Fro	Program: Certificate Cli		Clay	WE B.Sc.	Year: 2021	Session: 2021-22					
	Total Control	NATION OF THE PROPERTY OF THE		Subje	ct: Botany						
1 Course Code 2 Course Title				SI-BOTAIT							
				Applied Botany (Paper 1)							
3	3 Course Type (Core Course/Elective/Generic Elective/Vocational/)			Core Course							
4	Pre-requ	isite (if any)		To study this course, a student must have had the subject Biology/ Life Sciences/ Agriculture in class/12th							
5	(CLO)	carning outc	omes	By the end of this course the student should have: Understood the significance and role of botany. Learnt the basic aspects of applied botany. Gained knowledge about employment opportunities in field of botany. Gained knowledge about start-up opportunities in the field of botany. Learnt about opportunities of social services. Gain knowledge about best health practices.							
7	Credit Va				04 (Predits					
1.	Total Man	KS.		Max. Mari	3: 25+75	Min Pussing Made 22					
	N		Part B	- Conter							
70.1	NO. OF LEC	tures 60 He	mrs Tut	orials-00	Practical -00 (04	hours per week):					
nit		The state of the s				and a per weekly					
an .		Topics				No. of Lectures					
		1. Hatroducu	on, obje	ctives and	importance of	TO OF LECTURES					
1.2 History and evo 1.3 Relation of plan services 1.4 Various discipli			nd evalu of plants	alution of botany ats to man and relation with other ares of botany and theirapplications to							
						700 W.					
1.1 Definition and by pollutants 1.2 Phytoremediati pollutants (Any 5 pli after role in pollution 1.3 Bioremediation: c				n: Air, wat its with ho control.	er, soil, noise and t	thermal by) and					
		1.2 Modern a	ricultura gricultura	I practices	es: Polyhouse, Drip r-hased agriculture	12					

(D. K. N. SHAH)

40

Mnog

			Part A I	ntroduction					
Program: Certificate Clas		ss: BSe-1 Year:2021 Sess		Session:2021-22					
			Subje	ct: Botany					
1	Course Code		S1-BOTA2T						
2	Course Title		Basic Botany (paper 2)						
3	Course Type (Core Course/Elective/Gen Elective/Vocational/.			re Course					
4	Pre-requisite (if any)	To study the subje	this course, a stu ect botany in class	dent must have had /12th/ certificate/diploma.					
5	Course Learning out (CLO)	comes	- di	iverșity of plants m ingdoms, gives an accounts	of plant adaptations from aquatic e terrestrial habitat.				
			The changes in morphological, anatomical and reproductive structures that propel plant evolution can be investigated. The economic importance and significance of plants.						
6	Credit Value		in mature will be understood. They will be acquainted with locally prevalent microbial diseases of plants and humans.						
7	Total Marks		Max. Marks: 25-75 Min. Pressing Marks: 23						
1	TARREST TOTAL ROS	Post		nt of the Course	Min. Passing Marks:33				
otal	No. of Lectures 60To	torials-	0 Practic	al =0 (theory 4 h	ours per weekl:				
-	1.1	N.							
mit	Topics				No. of Lectures				
	L2Morphe planes Ang L31y pes o L4 Structu and Enkary L5 Micros (magnifica L6 Variou Lontrast, S	topical insperms if leaves, re of Plan one Celli cope store ion and re	Character Influrescer It cell and It types of three and f esolving p of Micros	ndian Contribution of lower are notes, Flowers and Fixell organelles, Proceedings of light minutes, Cell division, function of light minutes, copes. Bright field	ns. 12 nd higher ruits. okaryotic icroscope				
	HANK About of	l'thallus e	eganizanii es in albas	se reproduction,	12				

(Dr. K. W. SHAH)

				troduction		
Program: Certif	icate	Chass: In	vear.	Year: 2021	Sess	ion: 2021-22
		0.1				
1 Course C	To the	Sul	sject : Bo	tapy Practical		
2 Course T		-	10		I-BOTA2P	
	ype (Core		Core Co	otany Práctical	(Paper2)	
	loctive/Ge		Core Ca	HITSE		
	Vocational					
	isite (if any		To study Biology	this course, a str Life science/Ag	ident most hav	e had the subject o
5 Course L (CLO)	earning or	iteomes ,	• 1	indents will lear be laboratory, interpreting plant, arious groups of itudents will be a	to carry out p morphology ar lower and high	ractical work in and anatomy of
6. Credit V:	thre		- 1	2 Cree	Te.	
7 Total Ma			Max XI	arks: 25=75	111111111111111111111111111111111111111	sing Marks:33
- 1		Part D		of the Cour	TVIIII F 43	SITIE WHITES:33
L-T-P: Unit I to V	Topics					No. of Practical
	2 10	owers and, fr	uits. Vacions p roscopei	Fleaves , inflores		30

1 NC 12 12 12 1 2 12 12 12 1

×

		P. Year	Part A In	troduction ctive course in		
Pro	gram: Certificate	Clu		Vear:2021	Session:2021-22	
		- Internation		Botany		
.1	Course Code				I-BOTAIG	
2	Course Title		Nursery Management (paper)			
3	Course Type (Core Course/Elective/Ge Elective/Vocational	serie			Elective	
4	Pre-requisite (if an	v)	This cours	se can be opted its/ Open for a	as an elective by the students of	
Mr.	Course Learning or (CLO)	itcomes	It is dev It go proj kno com Hig	directly relate elopment at sm ives an opportu- pagation, techn wiedge of mier imercial manag h-tech nursery	d with entrepreneurship null and large scale; nity to understand the methods of iques of implementation, advance to propagation including conent practices.	
			• It al	so provides ski cry establishm	oleting this course, ils of practical application for cot and related businesses such as peat, compost, green manure, soil te.	
6	Credit Value		• It al	so provides ski icry establishm keting of coco in and perlite e	ils of practical application for ent and related businesses such as peat, compost, green manure, soil te.	
6 7	Credit Value Total Marks		• It all notes many mod	so provides ski sery establishma keting of coco p in and perlite e	ils of practical application for ent and related businesses such as peat, compost, green manure, soil te.	
6.7		Part	It all stores much inted Max. Marks	so provides ski sery establishm keting of coco in and perlite e 4 Cro 25-75	lls of practical application for sent and related businesses such as peat, compost, green manure, soil to. edits Theory Min. Passine Marker 23	
7 otal	Yotal Marks No. of Lectures, 60 I	Part I	Max. Marks	so provides ski cry establishm keting of coco is and perlite e 4 Cro 25-75	lls of practical application for sent and related businesses such as peat, compost, green manure, soil to: edits Theory Min, Passing Marks: 33	
7	Yotal Marks No. of Lectures, 60 I	Part I	Max. Marks	so provides ski cry establishm keting of coco is and perlite e 4 Cro 25-75	lls of practical application for ent and related businesses such as peat, compost, green manure, soil to: edits Theory Min, Passing Marks: 33 se ours per weeks	
7 Total L-T- nit	Total Marks No. of Lectures 60 I P: Topics Introduc 1.1 intro of nursers 1.2 Nurs 1.3 Facts regulators 4.4 Intro 1.5 Spec	tion to number to all certain to all certain to all certain due to due t	Max. Marks B- Content rials- 00 Pr sery sursery toole tues. g plant grow landscaping s in nursery	so provides ski cry establishm keting of coco is and perlite e 4 Cro 25-75	lls of practical application for sent and related businesses such as peat, compost, green manure, soil to. edits Theory Min, Passing Marks:33 see ours per weeks No. of Lectures 15 Types	
otal	Total Marks No. of Lectures: 60 I P: Topics Introduc 1.1 intro of nurser; 1.2 Nurs 1.3 Facts regulators 4.4 Intro 1.5 Spec prop	tion to number to all certain to all certain to all certain due to due t	Max. Marks B- Content rials-00 Pr rsery tursery tools tursery tursery tools tursery tursery tools tursery tu	to provides ski cry establishm keting of coco i in and perlite e 4 Cro 25-75 t of the Cour actical-00 (2 h	lls of practical application for ent and related businesses such as peat, compost, green manure, soil to: edits Theory Min, Passing Marks:33 se ours per weeky No, of Lectures 15	

(Dr. K. W. SHAH)

B.Sc. I Year Chemistry Syllabus'

CBCS Annual Pattern From Academic Year 2021-2022

Paper II

	Part A Introduction
Program- CERTIFICATE	Class- B.Sc. Year- First Session: 2021-2022
	{Subject - Chemistry
Course Code	S1-CHEM21
Course Title	Analytical Chemistry (Paper II)
Course Type	Core Course
Pre-requisite (if any)	To study this course students must have had the subject <u>Chemistry</u> in class +2 or equivalent.
Course Learning Outcomes (CLO)	By the end of this course students will learn the following aspects of Chemistry:
. 1	1. Basic concepts of Mathematics for Chemists.
	Fundamentals of analytical chemistry and steps involved in analysis.
}	Basic knowledge of Computer for chemists.
	4. Basic Concepts of Chemical equilibrium.
	Principles of Chromatography and chromatographic techniques.
	Various techniques of Spectroscopic Analysis.
Credit Value	4
Total Marks	Maximum Marks: CC1 -25. Minimum Passing Marks: 33 University Exam (U1)-75

Sull-

B.Sc. I Year Chemistry Syllabus'

CBCS Annual Pattern From Academic Year 2021-2022

Paper III

	Part A Introduction
Program- CERTIFICATE	Class- B.Sc. Year-First Session: 2021-2022
	Subject - Chemistry
Course Code	S1-CHEM21
Course Title	Analytical Chemistry (Paper II)
Course Type	Core Course
Pre-requisite (if	To study this course students must have had the subject Chemistry
any)	in class +2 or equivalent.
Course Learning Outcomes (CLO)	By the end of this course students will learn the following aspects of Chemistry:
; 	1. Basic concepts of Mathematics for Chemists.
	Fundamentals of analytical chemistry and steps involved in analysis.
} }	3. Basic knowledge of Computer for chemists.
	4. Basic Concepts of Chemical equilibrium.
	 Principles of Chromatography and chromatographic techniques.
1	6. Various techniques of Spectroscopic Analysis.
Credit-Value	74
Total Marks	Maximum Marks: CC1-25. Minimum Passing Marks: 33 University Exam (UL)-75

Sulli-

ourse Title ourse Type (Core ourse/Elective/Generic lective/Vocational/) re-requisite (if any) ourse Learning outcomes CLO) redit Value tal Marks	Part A Introduction Class': BBA Year Year:2021 Et: BUSINESS MANAGEMENT MI-BBAAIT (Group BBA (Core Course) Not Required (Open for All) Student will be able to assess the planning, coordinating, and mon behaviour. 2-Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various for structures and their importance. 4. Students can learn about various businesses to maintain and improve emple 5. Students will be able to understand ho different leadership styles to stay competitive market. Credit 6	e global context for itoring manageri in-making technique is ensure to remain it ms of organizations strategies used by oyee efficiency, wo organizations use tive.
ourse Title Tourse Type (Core Type (Core	MI-BBAAIT (Group BBA (Core Course) Not Required (Open for All) 1. Student will be able to assess the planning, coordinating, and mon behaviour. 2-Through various planning and decision students can learn about how husinesses a competitive market. 3. Students will understand various for structures and their importance. 4. Students can learn about various businesses to maintain and improve emplots. 5. Students will be able to understand ho different leadership styles to stay competitive for the control of t	e global context for itoring manageri in-making technique is ensure to remain it ms of organizations strategies used by oyee efficiency, wo organizations use tive.
ourse Title Tourse Type (Core Type (Core	MI-BBAAIT (Group BBA (Core Course) Not Required (Open for All) 1. Student will be able to assess the planning, coordinating, and mon behaviour. 2-Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various for structures and their importance. 4. Students can learn about various businesses to maintain and improve emple 5. Students will be able to understand ho different leadership styles to stay competi (Credit) 6 Max Marks: 25+75 Min Passing	e global context of itoring manageri n-making technique censure to remain i ms of organizations strategies used b over efficiency, w organizations use tive.
course Type (Core Course/Elective/Generic Elective/Vocational/) Pre-requisite (if any) Course Learning outcomes CLO) redit Value Ital Marks Part 1 of Lectures-Tutorials-Prace Pre-requisite (if any) redit Value Pre-requisite (if any) Pre	Not Required (Open for All) 1. Student will be able to assess the planning, coordinating, and mon behaviour. 2-Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various for structures and their importance. 4. Students can learn about various businesses to maintain and improve employed. 5. Students will be able to understand ho different leadership styles to stay competitive in the control of the cont	e global context of itoring manageri n-making technique censure to remain i ms of organizations strategies used b over efficiency, w organizations use tive.
redit Value tal Marks Part I of Lectures-Tutorials-Prac	Not Required (Open for All) 1. Student will be able to assess the planning, coordinating, and mon behaviour. 2-Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various form structures and their importance. 4. Students can learn about various businesses to maintain and improve emplo 5. Students will be able to understand ho different leadership styles to stay competitive forms. (Credit) 6. Max. Marks: 25+75.	n-making technique is ensure to remain in this of organizations strategies used by oyee efficiency, w organizations use tive.
re-requisite (if any) ourse Learning outcomes CLO) redit Value otal Marks Part I of Lectures-Tutorials-Prac	1. Student will be able to assess the planning, coordinating, and mon behaviour. 2. Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various for structures and their importance. 4. Students can learn about various businesses to maintain and improve emple 5. Students will be able to understand ho different leadership styles to stay competition of the competition of	n-making technique is ensure to remain in this of organizations strategies used by oyee efficiency, w organizations use tive.
redit Value otal Marks Part I	1. Student will be able to assess the planning, coordinating, and mon behaviour. 2. Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various for structures and their importance. 4. Students can learn about various businesses to maintain and improve emple 5. Students will be able to understand ho different leadership styles to stay competition of the competition of	n-making technique is ensure to remain in this of organizations strategies used by oyee efficiency, w organizations use tive.
etal Marks Part 1 . of Lectures-Tutorials-Prac	Max. Marks: 25+75 Min Passing	tive.
etal Marks Part 1 . of Lectures-Tutorials-Prac	Max. Marks: 25+75 Min Passing	
of Lectures-Tutorials-Prac	Max. Marks: 25+75 Min Passing	Marks:33
of Lectures-Tutorials-Prac		Marks:33
anagement in Indian Culture a	and Tradition, Definition and Meaning of	No. of Lectures
magement.	magement. School & Thoughts of	18
mificance. Planning for Start-	cies, MBO. Decision Making: Process &	18
ganization: Nature and Purp cess of Organization actures: types and relevance. I	pose of organization. Importance and Departmentalization, Organizational	18
power- Responsibility, Rec	ruitment- Sources, Selection, Training,	18
dership: Meaning, Importan les, Motivation: Types & sig ory X &Y of Motivation. A OT Analysis, Strategic Analysis.	An overview of Strategic Management,	18
	inager, Principles of Management. Inning Process, Types and jective, Strategies and Polimificance, Planning for Start-ganization: Nature and Purcess of Organization ictures types and relevance, thority- Delegation, Decentral power- Responsibility, Recetion—Nature and Purpose, dership: Meaning, Importance, Motivation: Types & significant power- Challes, Motivation. A OT Analysis, Strategic Analysis, Strategic Analysis, Challester Management, Challester	inning Process, Types and Significance, Planning vs. Forecasting jective, Strategies and Policies, MBO. Decision Making: Process & mificance, Planning for Start-ups' ganization: Nature and Purpose of organization. Importance and ecess of Organization. Departmentalization, Organizational inctures types and relevance, Line and Staff relationship. Thority- Delegation, Decentralization - Difference between Authority power- Responsibility.

28.5.2021

Prof. Dr. S. K. Khotik. Chairmon, Central Board of Studies Professional Management BBA Course

ESCHOOL SEC		Part A Introduction	15 30	
rreg	ram: Certificate	Class': BBA I Year	Year:2021	Session:2021-2022
	Subject	COMMUNICATION SK	ILLS	
1	Course Code	MI-BB	AA2T (Group-	1)
2	Course Title		BBA	
3	Course Type (Core Course/Elective/Generic Elective/Vocational/) (Core Course)			27
4	Pre-requisite (if any) Not Required (Open for All)			
5	Course Learning outcomes (CLO)	Imagination, Ethical Th Students can learn how to Students can learn are skills. They will learn interviews, conferences. Students can learn no and organizational culture Students can be equipp communication through professional papers and of	do this ethica id practice g how to resp inverbal com- ed with know the basic p	Ily and effectively, roup communication and in discussions munication, listening ledge of professiona rinciples of writing
6	Credit Value		Credit) 6	3.
7	Total Marks	Max. Marks: 25+75		ng Marks:33
	Part	B- Content of the Cou		
	l No. of Lectures-Tutorials-Pri	actical (in hours per week):	3 Hours	
	-P: 90			No. of Lectures
Unit	Topics Historical background of Co	manuscripton Profestrice a	ad December of	
1	Communication, Essentials Communication, Role of	of Effective Communication	n, Barriers t Organizations	0 19
2	Public Speech - Composition Group Discussion: Do's Communication in Committee	and Don'ts of Group	Discussion	
1111				
3	Non-Verbal Communication Listening, Difference between	n: Meaning, types and a Listening and Hearing.	2000	. 18
3	Listening, Difference between Business Correspondence, Correspondence, Structure of Enquiry, Reply, Orders, Com	n: Meaning, types and Listening and Hearing. Essentials of Effecti Business Letter, Types of B plaints and Circular Letter.	ve Busines usiness Lette	s 18
4 5	Listening, Difference between Business Correspondence, Correspondence, Structure of Enquiry, Reply, Orders, Com Drafting of Notices, Agen Preparation of Curriculum Vi	n: Meaning, types and s Listening and Hearing. Essentials of Effecti Business Letter, Types of B plaints and Circular Letter, das, Minutes, Job Applie	ve Busines usiness Lette	s 18
4 5	Listening, Difference between Business Correspondence, Correspondence, Structure of Enquiry, Reply, Orders, Com Drafting of Notices, Agen Preparation of Curriculum Vi words/Tags:	n: Meaning, types and s Listening and Hearing. Essentials of Effecti Business Letter, Types of B plaints and Circular Letter, das, Minutes, Job Applie tae.	ve Busines usiness Lette	18
4 5	Listening, Difference between Business Correspondence, Correspondence, Structure of Enquiry, Reply, Orders, Com Drafting of Notices, Agen Preparation of Curriculum Vi words/Tags: Pai	n: Meaning, types and s Listening and Hearing. Essentials of Effecti Business Letter, Types of B plaints and Circular Letter, das, Minutes, Job Applie	ve Busines usiness Lette ation Letter	18

- Ace of Soft Skills Attitude Communication and Etiquette for Success by Gopalaswamy Ramesh, Pearson India Rao N.and Das R. P., Communication Skills, Himalaya Publishing House, Mumbai. Mehta D. & Mehta N. K., A Handbook of Communication Skills Practices, Radha Pub.,

Prof. Dr. S. K. Khatik.
Chairman, Central Board of Stud
Professional Mgt. BBA Course.

Pro	gram: Certificate	Part A Introduction	HVP.	Was at a second
	Co. Commission of the Co.		Year:2021	Session:2021-202
1	I Course Co. L. Sui	bject: MICRO ECONOMICS		
2	Course Code	MI-BBAB	1T (Group-	II)
3	Course Title	B	BA	111
	Course/Elective/Generic Elective/Vocational/)	(Core	Course)	
5	Pre-requisite (if any) Course Learning outcomes	Not Required (Open for All)	-	
	(CLO)	Students will understar principles of micro economics Students will be able to un supply rules and elasticity. implement it. Utility, apathy analysis and be able to understand. Students will be able to un classify costs and incomes. Students will be able to undifferent market systems. Students will be able to understand.	derstand the They will d market sy derstand produced and understand	e basics of demand- also learn how to irplus, students will oduction principles, the comparison of
6	Credit Value	casculated.		mational income is
7	Total Marks	Max. Marks: 25+75 M	dit) 6	
	Part	L. Contant of the Contant	in. Passing	Marks:33
lotal	10, of Lectures-Tutoriuls-Pra	ctical (in hours per week);3 H.	CARRIER .	William Co.
The state of the s	F-17-0	the manager messylva in	ours.	
Unit		In the second se		No. of Lectures
1	Functions of Managerial From	finitions of economics, Nature a and Evolution of Micro Economics	conomics,	10
2	Equilibrium, Elasticity of Dem	l, Law of Supply, Concept of		15
3	Consumer Surplus	Concept of Utility, Indifference curve, T	heory of	20
4		Production, Theory of Rent, 7		20
5	Structure, Perfect v/s Imperfect	nd Analysis (GNP, NNP, GD f National Income, Types of Market Trade Cycles	P, HDI), Market	25
eywo	rus/tays;	Elyander de la company		
-	Part	C-Learning Resources		
	Text Books,	Reference Books, Other resour	rees	- ON -
-				

Prof. Dr. S. K. Khatik. Chairman, Central Board of Studies, Professional Mgt. BBA Course

Proor	am: Certificate	art A Introduction	149.000		
ragi		Class': BBA I Year	Year:2021	Session:2021-2022	
		FINANCIAL ACCOUNTS			
1	Course Code	M1-BE	BACIT (Group	p-III)	
2	Course Title		BBA		
3	Course Type (Core Course/Elective/Generic Elective/Vocational/)	. (Core Course)		
4	Pre-requisite (if any)	Not Required (Open fo	r All)		
5	Course Learning outcomes (CLO)	Students will be a bookkeeping and accounting remedies recounting to the software. Students will be able business unit. They will be in a possuse bank reconcilidepartmental accounts. Students will und accounting and Hire-pracounting remedies reused.	able to kno e to do the ac ition to under lation, bran erstand the archase accou	w about accounting counting work of the stand and technically ch accounts and concept of Royalty nting and learn what	
6	Credit Value	0.564.	(Credit) 6		
7	Total Marks	Max. Marks: 25+75		ssing Marks:33	
	Part F	- Content of the Cour		The state of the s	
Total L-T-1	No. of Lectures-Tutorials-Practi	cal (in hours per week):3	Hours		
Unit	Topics			No. of Lectures	
1	Accounting and its place in financial areas, Double Entr Advantages, Concepts and Con Accounting, Cost Accounting a	y System, Book Keepin nventions, Difference betweend Management Accounting	g- Meaning, cen Financial z.	10	
2	Type of books of accounts and balance and Depreciation, Cor books, Wave and Tally).	their preparation, Journal,	Ledger, Trial	20	
3	Preparation of Final Account: T Balance Sheet, Preparation of E	MI Chart.	VARIABLE SALES	20	
4	Bank Reconciliation Statemen Accounts.		Secretary Comments	- 20	
5	Royalty Accounts, Hire Purcha book of purchaser and vendor.	ase Accounts- Accounting	record in the	20	
Keyw	ords/Tags:	C-L			
C.I.		C-Learning Resources			
Same	sted Readings:	Reference Books, Other re	sources		
- alle			rem av .		
•	Mukherjee Hanif, Financial				
	Shukla & Grewal, Financial	Accounting, S Chand Pub	lishing, 2019	New Delhi	

Prof. Dr. S. K. Khatik. Chairman, Central Board of Studies, Professional Mgt.BBA Course

- 1	THE RESERVE TO SERVE THE RESERVE THE RESER	Part A Introduction		
Pro	gram: Certificate	Class': BBA I Year	Year:2021	Session:2021-202
	Subjec	t: BUSINESS MATHEMA	TICS	
1	Course Code	MI-BB	AC2T (Group-	TTT
2	Course Title	1751, 1500	BBA	(11)
3	Course Type (Core Course/Elective/Generic Elective/Vocational/)	(C	ore Course)	
5	Pre-requisite (if any)	Not Required (Open for A	H)	
	Course Learning outcomes (CLO)	Students will learn to pro Simultaneous equation in Logarithm, formulate wo problems using various me Brokerage, Profit and Lo convey the results in real-	two or three rd problems in ethods, Commiss, and then it	variables, Matrice n order to solve th ission, Discount, an interpret and clearly
6	Credit Value		Credit) 6	S.
7	Total Marks	Max. Marks: 25+75	Min Parrie	or Market 22
	Part	D. Cantont of the C		CC SWITHING DE
total	No. of Lectures-Tutorials-Pra	etical (in hours per week):	3 Hours	
Unit		The second second second second	encontra-	
		10.		No. of Lectures
1	Ratio — Gaining and Sac Averages — Simple and Weig	hted Averages		15
2	Simultaneous Equations — Calculations, Preparation of In	Meaning, Characteristics,		18
3	Determinants and Matrices, M on Matrices, Transpose of Ma Adjoint and Inverse of Matrix.	trix. Determinants- Minors a	ind Co factor.	20
4	Practical approach and applic Antilogarithms — Princip Compound Interest.	les and Calculations.	garithms and Simple and	20
5	Commission, Discount, Broker	age and Profit and Loss		17
EYW	ords/tags:	1000 - 1000 1000 1000 1000 1000 1000 10		- 17
	Part	C-Learning Resources		THE RESERVE OF THE PERSON NAMED IN
	Text Books,	Reference Books, Other re	Sources	

Suggested Readings:

- Spooner H.A. and D.A.L. Wilson, The essence of Mathematics for Business, Prentice Hall of India Private Limited, New Delhi latest edition
- S.M. Shukla: Business Mathematics, Sahitya Bhawan, Agra latest edition (Hindi and English Medium)
- V. Sundaresan and S.B. Jeysoelan: An Introduction to Business Mathematics, S.Chand&Co.Pvt. Ltd, New Delhi Latest edition
- M. Raghavanchari: Mathematics for Management, An Introduction Tata McGraw Hill Publishing company Ltd. New Delhi latest edition

Dr. J P Mishra, Business Mathematics, Sahirya Bhawan, Agra (Hindi Medium)

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Chairman, Central Board of Studie
Professional Mgt. BBA Course

1			Part A : I	ntroduc	tion	
-	Program Certificate/Diplo Cours	ma/Degree	Class: I		Year: 2021	Session: 2021-202
		Subjec	t : National S	ervice Pa		
1	Course Code	NSS: I		er vice se	neme (NSS)	
2	Course Title	Concep	t of National S	Service Co		
3	Course Type	Elective		oct vice 3c	neme	
4	Pre-requisite (If any)	To study this course, a student must have passed 12th class with any subject. The course can be opted as an elective and it is open for				d 12th class with any and it is open for
	Course Learnin outcomes (CLO	1. M ch se di the 2. Un 3. Ide the 4. De 5. Pra 6. Util and Learning O of th 1. Und their Gove Spor 2. The s whici 3. Stude oppor	rvice. It will versity of India versity of India versity of India versity of India versity the needs on in problem-s velop capacity to ctice national in lize their knowl community pro community pro outcome: - To in the paper, a stude contained the imp solution. It comment approve ta, students can calco on in turn and be outs can also on the control of Internation of	also help and have miniunity i s and prob olving to meet em stegration i ledge in fir shlems mpart hand ent should portance o might he red NGOs, arry out ba of great he	them understal pride through a pride through a pride through a n which they wo learns of the consergencies and national and social harmouting practical so lis - on skills in p be able to: If having community in job opping and Ministry of sic information in disaster must be printed through the property of the printed through	reparation. The end inity problems and cortainty in some Youth affairs and about Community, magement fields.
	The second of second	Ancory - 04	opportunities in different social activity related department			



		Part A Introduction		
Progra	m: Certificate	Year: First Year Session: 202	1-22	
Course	Code	VI-OFM-OPPT		
Course	Title	Office Procedure and Practices		
Course	Course Type Vocational			
Pre-req	uisite (if any)	Open for All		
	Learning es (CLO)	After studying this Course the Student will be able to Understand Office record keeping, Record management and Filing.		
		Understand about Office Forms, Register and the Mail management		
		Understand the Budget and Audit system in the Office.		
		Understand the procedure and Record keeping of various dedu Professional tax, Goods and Service tax, Income tax, Provident Insurance.	etions lik Fund an	
	d Job Role /	Office Assistant in Modern Offices		
Credit \		4		
	TO SALL	Part B- Content of the Course		
Total No.	of Lectures + Pra	ctical (in hours per week): L-1 Hr / P-1 Lab Hr		
		Total No. of Lectures/ Practical: L-30hrs/P-30hrs		
Module		Topics	No. of Hours	
1	Office Record	Management and Filing	10	
	management a centralization a Components of Meaning and i methods of fili	cords and Types of Records, Principles and Objectives of Records and records keeping, essentials of record management system, and decentralization of record keeping, record management process, record management. Importance of filing, characteristics of a good filing and indexing, and, classification of files. Advantages and disadvantages of filing pt of paperless office, digitalization and retrieval of records,		
	retention, weed Keywords/Tag	ing and destruction of old records. s: Record Management, Record keeping, Centralization, n, Filing, Indexing, Digitalization.		

	Part.	A Introduction					
Program: Certificate/D	iploma/Degree	Year: First Year	Session:2021-22				
Course Code		V1-PSY-DEVT					
Course Title		PERSONALITY DEVELOPMENT					
Course Type	Vocational						
Pre-requisite (if any)	Open for all						
Course Learning outcomes (CLO)	After studying this course the Student will be able to To cultivate skills for successful life and learn to handle failures To learn the process of goal setting and SWOT analysis To understand the importance of time and stress management To develop core skills for employability To develop effective communication skills To realize the role of technology in personality development						
Expected Job Role / career opportunities	Growth and v	alue addition in the respective	e job profiles				
Credit Value		- 4					

CHIBUP-A major-I (MRM)

Format for Syllabus of Theory Paper

rogram: Diploma		Class: BBA	Year: 11 .	Session:2022- 2023
	Subject: HUMAN	RESOURCE MANAGEN	MENT	
1	Course Code	M2-BBAA1T BBA		
2	Course Title			
3	Course Type (Core Course/Elective/Generic Elective/Vocational/)	Group -1 Paper I - Major		
4	Pre-requisite (if any)	Not Required (Open for All)		
5	Course Learning outcomes (CLO)	resources theori apply to real wor Formulate huma that help prom goals. Students will u training program Students will jobs and design Develop an ur human resource	Students will understand how organizations time training programs to organizational needs. Students will learn how organizations evaluate jobs and design salary structure based on that.	
6	Credit Value		6 CREDITS May Marks: 36176 Min. Passing Marks: 33	
7	Total Marks			
Total N	Total Marks Part B- Ro. of Lectures-Tutorials-Practica	(in hours per week): 3H	ours	新改革 (1975) (WA)

L-T-P: 90

L-T-P: 9 Unit	Topics	No. of Lectures
1	Concept and functions of Human Resource Management, Structure & Role of Personnel Management in an Organization, implementation of Personnel policy, The Future Challenges of HRM, International	18
2	HRM. Strategic Management of Human resource, Staffing Policy, and process; Management Planning, Job Analysis, Job description, Job Specification, recruitment, Selection, Induction, Placement,	18
3	promotion, and transfer. Manpower Training & Development. Employment training and Development, Employee training, performance appraisal and Potential appraisal. Employee morale and productivity.	18

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Syllabus of Theory Paper

Prog	ram: Certificate/	Class	Part A Int	Year: 2021	Session: 202	1-22
	oma/Degree/			2.001. 2021	Coston, Lor	a ree
	The state of the s		Subject	: NCC		
- 1	Course Code			100000000000000000000000000000000000000	(0)	
2	Course Title		NCC Awarer	ress	7	
3	Course/Elective/Ge	Course Type (Core Course/Elective/Generic Elective/Vocational/)			0 = =	
4		Pre-requisite (if any) Course Learning outcomes		s course, a stud and must be m lective and it is	ent must have passe edically fit. This cou open for all.	d 12° wit irse can b
5	Course Learning outcomes (CLO) The students will develop a sense of responsibility a display sense of patriotism, secular values, disciplin bearing and develop the quality of immediate and implicit of good things. This paper will enable the students to develop leadership through communication. The relationship between personality traits and leadership achieved and executed.					ne, improv cit obedienc to build an significan
. 6	Credit Value		04			
7	Total Marks		Max. Marks: 2	25+75	Min. Passing Mar	rks:33
	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Por	THE RESERVE OF THE PERSON OF T	t of the Cours		100100
	National Cadet Corp The National Cadet Motto of National C Aims and Objectives Emblem, NCC Flag. Organization of NCC Training Centres of	Corps Act adet Corps s. . NCC son C-Army.N	.1948 s.	g-		
п	Introduction to Defer		1851			15
	Army, Navy and Air Organizational Structure Regimental Structure Badges and Ranks: Honors and Awards.	Force. cture in Ch e: commar Army, Nav	arts. ad and control.			13
III	Personality developm		- 54			15
AAA	Introduction to perso Factors influencing a	onality dev and shapin n building	g the personality , social skills, Et		ners, Decision making	15
IV	Leadership: Introduction and type Leadership traits. How to develop lead Leadership case stud	es of Lead lership.	ership.	iam H.F.J. Manek	shaw and General	15

Syllabus of Theory Paper

Prog	ram: Certificate/	Class	Part A Int	Year: 2021	Session: 202	1-22
	oma/Degree/			2.001. 2021	Coston, Lor	a ree
	The state of the s		Subject	: NCC		
- 1	Course Code			100000000000000000000000000000000000000	(0)	
2	Course Title		NCC Awarer	ress	7	
3	Course/Elective/Ge	Course Type (Core Course/Elective/Generic Elective/Vocational/)			0 = =	
4		Pre-requisite (if any) Course Learning outcomes		s course, a stud and must be m lective and it is	ent must have passe edically fit. This cou open for all.	d 12° wit irse can b
5	Course Learning outcomes (CLO) The students will develop a sense of responsibility a display sense of patriotism, secular values, disciplin bearing and develop the quality of immediate and implicit of good things. This paper will enable the students to develop leadership through communication. The relationship between personality traits and leadership achieved and executed.					ne, improv cit obedienc to build an significan
. 6	Credit Value		04			
7	Total Marks		Max. Marks: 2	25+75	Min. Passing Mar	rks:33
	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Por	THE RESERVE OF THE PERSON OF T	t of the Cours		100100
	National Cadet Corp The National Cadet Motto of National C Aims and Objectives Emblem, NCC Flag. Organization of NCC Training Centres of	Corps Act adet Corps s. . NCC son C-Army.N	.1948 s.	g-		
п	Introduction to Defer		1851			15
	Army, Navy and Air Organizational Structure Regimental Structure Badges and Ranks: Honors and Awards.	Force. cture in Ch e: commar Army, Nav	arts. ad and control.			13
III	Personality developm		- 54			15
AAA	Introduction to perso Factors influencing a	onality dev and shapin n building	g the personality , social skills, Et		ners, Decision making	15
IV	Leadership: Introduction and type Leadership traits. How to develop lead Leadership case stud	es of Lead lership.	ership.	iam H.F.J. Manek	shaw and General	15

Cromp- A major-II (0B)

Format for Syllabus of Theory Paper

Program:	Diploma	Class: BBA	Year: 1	Session:2022- 2023
	Subject: ORG	ANISATIONAL BEHAVIO	NISATIONAL BEHAVIOUR	
1	Course Code		-BBAA2T	
2	Course Title	- X-S		
-	Course Type (Core		Group I	
3	Course/Elective/Generic Elective/Vocational/)	Раре	er II - Major	
4 Pre-requisite (if any)		Not Requi	red (Open for A	AII)
5	Course Learning outcomes (CLO)	examine characte implications, and a positive culture culture on organi	ortant and com- izational behavior won management ills of management ills of management imponents and r, and politics, where leaders rated positively Stress management organizeristics of cultur i examine creat re, and assessi	parison of various ior. This outcome will introduce to the framework, roles, and manager's theories behing They can analyzhip, power, and and negatively ement and copin ational cultures, explore globing and sustaining the impact of
6	Credit Value			11.1.25
7	Total Marks	Max. Marks: 30+76	Min. Passing	MININS: 33
		Content of the Course	THE RESERVE OF THE PARTY OF THE	STATE OF THE STATE
L-T-P: 9	of Lectures-Tutorials-Practica	(in nours per week) 3 110		
Unit	Topics			No. of Lectures
1	Concept of Organizational organizational Behavior; I framework of OB.	Background/historical persp	ective and	18
2	Individual Behaviour, Person	nality perception- Perceptual social perception and	selectivity,	18

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Format for Syllabus of Theory Paper

Program	a: Diploma	Class: BBA		Session:2022	
		and the second of the second o	Year: II.	2023	
		ARKETING MANAGEMI	ENT		
1	Course Code	1	M2-BBAB1T		
2	Course Title		BBA		
3	Course Type (Core Course/Elective/Generic Elective/Vocational/)	Pr	Group II aper I - Major		
4				AID	
5	Course Learning outcomes (CLO)	process and operations. The marketing information in oral, written at the criteria for determined in the criteria for determined in the consumer behave. List best praction how to manage into a business venture. The student will aspects of ser	process and its applicability in busines operations. They will be able to communicat marketing information persuasively and accuratel in oral, written and graphic formats. Differentiate between categories of consume criteria for determining value. Recognize how to identify target markets an environments by analyzing demographics an consumer behaviour. List best practices for responsible marketing an how to manage marketing efforts Synthesize idea into a business plan for entrepreneurial start-up		
6	Credit Value	different from g	CREDITS		
7	Total Marks	Max. Marks:30+70	Min. Passing	Marks: 33	
L-T-P: 9	of Lectures-Tutorials-Practical	Content of the Course (in hours per week): 3Ho	A CITY OF STREET		
Unit	Topics			No. of Lectures	
1	Nature and scope of marketing and approaches, Marketing n Holistic Marketing. Market see Environment, Marketing System	nanagement philosophies, gmentation, Marketing Mix m	Concept of , Marketing	18	
2	Product Strategy. Product Clas-	sification & Product mix, b	munication.	18	

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Format for Syllabus of Theory Paper

Program	a: Diploma	Class: BBA		Session:2022	
		and the second of the second o	Year: II.	2023	
		ARKETING MANAGEMI	ENT		
1	Course Code	1	M2-BBAB1T		
2	Course Title		BBA		
3	Course Type (Core Course/Elective/Generic Elective/Vocational/)	Pr	Group II aper I - Major		
4				AID	
5	Course Learning outcomes (CLO)	process and operations. The marketing information in oral, written at the criteria for determined in the criteria for determined in the consumer behave. List best praction how to manage into a business venture. The student will aspects of ser	process and its applicability in busines operations. They will be able to communicat marketing information persuasively and accuratel in oral, written and graphic formats. Differentiate between categories of consume criteria for determining value. Recognize how to identify target markets an environments by analyzing demographics an consumer behaviour. List best practices for responsible marketing an how to manage marketing efforts Synthesize idea into a business plan for entrepreneurial start-up		
6	Credit Value	different from g	CREDITS		
7	Total Marks	Max. Marks:30+70	Min. Passing	Marks: 33	
L-T-P: 9	of Lectures-Tutorials-Practical	Content of the Course (in hours per week): 3Ho	A CITY OF STREET		
Unit	Topics			No. of Lectures	
1	Nature and scope of marketing and approaches, Marketing n Holistic Marketing. Market see Environment, Marketing System	nanagement philosophies, gmentation, Marketing Mix m	Concept of , Marketing	18	
2	Product Strategy. Product Clas-	sification & Product mix, b	munication.	18	

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Group-B Major-II mk+ Released

Format for Syllabus of Theory Paper

Progran	n: Diploma	Class: BBA	Year:IL	Session:2022- 2023
	Subject: 1	MARKETING RESEARCH	Н	
1	Course Code	N	12-BBAB2T	
2	Course Title		BBA	
3	Course Type (Core Course/Elective/Generic Elective/Vocational/) Group II Paper II - Major			
4 Pre-requisite (if any)		Not Requ	uired (Open for	AII)
5	Course Learning outcomes (CLO)	market research marketing strate Provide a detai market research Develop research be addressed in a Develop an apprint clients. Manage the contemporary st report descriptiv Interpret data identified busine	and its role in tigy. lled overview of process. h questions and a research design ropriate market is data collection attistical package to statistics from analysis in the ess problem esearch results	research design fo
6	Credit Value		CREDITS	
7	Total Marks	Max. Marks: 30+70	I A PLANT TO THE REAL PROPERTY AND ADDRESS OF THE PARTY AND ADDRESS OF	Marks: 33

Total No. of Lectures-Tutorials-Practical (in hours per week): Hours

L-T-P: 90

Unit	Topies	No. of Lectures
1	Definition, Concept and Objectives of Marketing research. Advantages and limitations of Marketing Research. Problems and precautions in Marketing research. Analyzing Competition and Consumer Markets, Market Research Methodology.	18

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Group-e : Major I)- financial mant

Format for Syllabus of Theory Paper

Progran	n: Diploma	Class: BBA	Year IV	Session:2022- 2023
	Subject: FI	NANCIAL MANAGEMEN	T	
1	Course Code	M.	2-BBACIT	
2	Course Title		BBA	
3	Course Type (Core Course/Elective/Generic Elective/Vocational/)	Group III Paper I - Major Not Required (Open for All)		
4	Pre-requisite (if any)			
5	Course Learning outcomes (CLO)	and operating flet design the combi- finance a firm. The students vi- regarding the pur- start of a business The students will the different mod- their calculations.	rendered by the fill be able to pretation of any the able to ever management profitabil xibility. They we nation of debt a will learn to rehase of long- sproject. I be able to dif- tels of dividend	do the financia y business concernative policies and their ity, liquidity, rist will be also able to and equity used to make decision term assets or the ferentiate between
6	Credit Value	6	CREDITS	
7	Total Marks	Max. Marks: 304-70	Min. Passing	Marks: 33

Part B- Content of the Course Total No. of Lectures-Tutorials-Practical (in hours per week): 3Hours

L-T-P: 90

Unit	Topics	No. of Lectures
1	Finance function and its objectives, tools for financial analysis, capitalization, over capitalization analysis, under capitalization. Concept of Risk and return.	18
2	Ratio analysis: Meaning, Interpretations of ratios, classification of ratio, funds flow and cash flow analysis.	18
3	Working capital management: Classification of working capital.	18

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Group-c major-IT Fin markets & Fin. services

Format for Syllabus of Theory Paper

100	Part	A Introduction	A CONTRACTOR AND A CONT	ession:2022-
rogram:	Diploma	Class: BBA	Year: Jb	2023
_	Subject: FINANCIAL MA	RKETS AND FINANC	TAL SERVICES	
1	Course Code		M2-BBAC2T	
2	Course Title	BBA Group III		
_	Course Type (Core			
3	Course/Elective/Generic Elective/Vocational/)	1.10	aper II - Major	
4	Pre-requisite (if any)	Not Rea	quired (Open for All)	A fee of
5	Course Learning outcomes (CLO)			functions and money market functions and money market arious financia narket.
6	Credit Value	Max. Marks: 30+7	Min. Passing M	arks: 33 (
7	Total Marks	Content of the Cou	The second secon	阿斯德发
	o. of Lectures-Tutorials-Practica	(in hours per week):3	Hours	
		. (
L-T-P	Topics			No. of Lectures
1	Financial System and its Co Financial intermediation; F economic development; An o	low of funds marring	ial system.	
Financial Markets: Money in Role of central bank in overview Capital Markets – functio market; Indian equity mar		noney market; Indian	money market - As	20 st
3	stock exchanges in india. Financial Institutions: Con	nmercial banking - in	troduction, its role i	n 20

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Pr	ogramme : O	ertificate Cla	ss:B.COM.1" Year Session 2021-22
50	bject; Como	nerce	
10	CourseCode		C1-COMAIT
2	Course Title		Financial Accounting
3	Course Type		Core
4	Pre-requisits		Not requiredopen for all
	Learning Outcomes	Acqu Ident Deve secon Dese Equi secon Ident pass	Type
Ė.	Credit Value		6
The state of the s			Max marks : 25+75 Minimum Passing Marks 33

Part B: content of the course

-	Total No. of Lectures (in hours per week)- 8, Total lectures: 90	
unit	topic	No. of lecture
1	Accounts: Indian History . Definition , Objectives ,Basic Concept and Principals of Double Entry System Journal Entry ,Ledger, Subridiary books ,Trial Balance Introduction of Indian Accounting Standard Final Accounts	15
2	Accounting for Depreciation (According to Accounting Standard -6) Branch Accounts	15
3.	Royalty Accounts , Departmental Accounts	15
4	Accounting of Non Profit Organisation , , Investment Account Consignment Accounts	15
5.	Partnership Accounts: Dissolution of Partnership (with Insolvency), Amalgamation of Partnership Firms, Conversion of Partnership firm in to joint stock Company	15
ex.	Computerized Accounts by using any popular accounting software creating a company, configure and features setting, creating accounting ledgers and groups, creating stock items and groups, vouchers entry(with maintenance of vouchers), generating report - cash book, ledger accounts, trial balance, profit and loss account and balance sheet	15

Pr	ogramme : O	ertificate Cla	ss:B.COM.1" Year Session 2021-22
50	bject; Como	nerce	
10	CourseCode		C1-COMAIT
2	Course Title		Financial Accounting
3	Course Type		Core
4	Pre-requisits		Not requiredopen for all
	Learning Outcomes	Acqu Ident Deve secon Dese Equi secon Ident pass	Type
Ė.	Credit Value		6
7	Total Marks		Max marks : 25+75 Minimum Passing Marks 33

Part B: content of the course

-	Total No. of Lectures (in hours per week)- 8, Total lectures: 90	
unit	topic	No. of lecture
1	Accounts: Indian History . Definition , Objectives ,Basic Concept and Principals of Double Entry System Journal Entry ,Ledger, Subridiary books ,Trial Balance Introduction of Indian Accounting Standard Final Accounts	15
2	Accounting for Depreciation (According to Accounting Standard -6) Branch Accounts	15
3.	Royalty Accounts , Departmental Accounts	15
4	Accounting of Non Profit Organisation , , Investment Account Consignment Accounts	15
5.	Partnership Accounts: Dissolution of Partnership (with Insolvency), Amalgamation of Partnership Firms, Conversion of Partnership firm in to joint stock Company	15
ex.	Computerized Accounts by using any popular accounting software creating a company, configure and features setting, creating accounting ledgers and groups, creating stock items and groups, vouchers entry(with maintenance of vouchers), generating report - cash book, ledger accounts, trial balance, profit and loss account and balance sheet	15

	gramme : Certifi		ILCOM 1" Year session 2021-22			
305	CourseCode	Dusiness reg	zulstory Framework)			
2			CI COMA 2T			
3	Course Title		Business regulatory Framework (FAPER 2)			
4	Course Type		Core			
5	Pre-requisite		Not required (open for all)			
	Learning Outcomes	Laws Of Th To Explain Sale Contra Law with R Consumer	ome of this course is to provide the students with practical legal knowledge if business law issues. To Understand the Essentials of A Valid Contract, The The Act, Consideration And The Various Modes Of Discharge Of A Contract in the Verious Laws with Regard to The Sale of Goods and Performance of a ract and Remedial Measures, to Familiarize the Students with The Various Regard to Consumer Protection in India And the Functions of Various or Forumsand, to Understand the Meaning and The Various Legislations with The Cyber Laws			
6	Credit Value		6			
7	Total Marks		Max marks: 25+75 Minimum Passing Marks 33			

Part 8: content of the course

unit	topic	No. of lectures
1	Historical background of Business laws in India,	3
	Indian Contract Act 1872 - GENERAL LAWAS	
2	Contact relating to Indemnity and Guarantee	
3	Negotiable instrument Act 1881 -General introduction Negotiable instrument(amendment) Act 2002	
4	General introduction of Consumer Protection Act 1986 and 2018, FEMA	
5.	Indian Partnership Act 1932-General introduction	
	Limited Liability Partnership Act 2008	

Amstro

Sul	Heat:	Classics	COM.1" Year session 2021-22 Commerce
1	CourseCode		C1-COMC1T
2	Course Title	and the same of	Business Economics
1	Course Type		General Elective
4	Pre-requisite		Not requiredopen for all
5	Course Learning Outcomes	1. U in 25 2. U m 3. Re th 4. Ur of 5. U	occessful completion of the course a student will be able to orderstand how households (demand) and businesses (supply) Interact various market structures to determine price and quantity of a sodproduced, inderstand the links between household behavior and the economic orders of demand, in graphical form, including the downward slope of elderstand the links between production costs and the economic models supply, orderstand the concept of Pricing natyze operations of markets under varying competitiveconditions.
6	Credit Value		0
-	Total Marks		Max marks: 25+75 Minimum Passing Marks 33

Part B: content of the course

manage .	Total No. of Lectures (in hours per week)- 3, Total lectures: 90	100
unit	topiu	No. of lectures
1	Historical background of economics in India with special reference to Kantilya, Definition of Economics, Concept of Micro and Macro Economics, Method of Economic study, Economics Law and their nature, Significance of Economics, Basic problems of Economics	15
2	Elasticity of Demand, Concept and measurement of Elasticity of Demand, Price, Income and cross elasticity, Average Revenue, Marginal Revenue and Elasticity of Demand, Determination of Elasticity of Demand, Importance of Elasticity of Demand.	15
3	Factors of Production- Land, Labour, Division of labour, Efficiency of Labour, Capital, Organisation and Enterprises, The scale of production, Theories of Population.	15
4	Production function and Law of returns, Return of scale, Equal product curve analysis, Market and their classification, Theory of cost and concept of revenue.	15
5	Price determination under perfect competition and Equilibrium of the firm, Monopoly-price and output determination and monopoly control, Price _ determination under monopoly, Imperfect and monopolistic competition- price determination.	15
6	Rent- concept, Recordisn and modern theories of Rent, Quasi Rent, Wages- concept, nominal andreal wages, theories of wage determination; Profit- Nature, concept and Theories of profit. ords/Tags:micro economics, macro economics, Production, perfect competition.	15

(PROF. PAVAN MISHRA)

Programme: Certific	ate/Diploma/Degree	Class:	B.COM. I Year	Session 2021-22
Subject :		Commerce		
Course Code		CI-COMC		
Course Title :			d Insurance	
Course Type:		Elective		
Pre-requisite:	Not required (open !	for all)		
Course Learning Outcomes	To understa growth of a c To understa banking, etc. To understa of banking a	nd Bunking country and it and the bank and the Insura and Insurance. sail be capable	course shall enable the and insurance service apportance for the entir- ting system, banking acce system, insurance to corn employment	es for the economic s business procedure, procedure, practica procedure, regulation
Credit Value	6		THE R. P. LEWIS CO., LANSING	7.7
Total Marks	Max. Marks - 25+7	5	Min. Passing Mark	133

Part B: Content of the course

	Total No. of Lectures (in hours per week)- 3	260, of
Unit	Topic	lecture
Unit-I	Introduction to Banking: Historical background of banking. Definition, principles and importance of bank. Classification of bank. Functions of commercial bank. Structure of commercial banking is India. Features of Indian banking system. credit creation. Central banking: RBI and its functions. Credit control. Nationalization and Merger of banks: General Introduction to Nationalization of Banks. Objective and Introduction to Private Banks Functioning and Userlaneas or Importance, effects. Evaluation of nationalization and merger of Indian banks.	18
Unit-2	Bank Deposits: Meaning and types. Features of back accounts. Procedure to open and close bank accounts (Including online procedure). Loans and Advances: Principles to sanction loans and advances. Classification of loans and advances. Procedure to apply for house loan, personal loan, education loan and compressed loans.	83
Unit-3	lasurance: Historical buckground of Insurance. Meaning, elements, basic principles and importance of insurance. Kinds of insurance, Regulation of insurance in India. IRDA:Functions and role to regulate insurance in India.	18
Unit-4	Life Insurance: Historical background, meaning, objectives, importance, essential elements. Life insurance policy and its types. Insurance proposal to policy-Procedure. Conditions of Life insurance policies. Claim filing procedure and settlement of claims. Life Insurance Corporation of India: Functions, progress and Evaluation.	18
Unit- 5	General Insurance: Meaning, objectives & importance. Kinds of general insurance and its features. Basic principles of general insurance. Procedure to apply general insurance policies. Claim filing procedure and settlement of claims. General Insurance Corporation of India: Functions, progress and structure. Performance of private sector companies in general insurance sector. Med. Banking, Insurance, Nationalization, Leons and Advances Progress, Regulation.	18

(DR. PAVAN MISHRA)

Syllabus of Theory Paper

Prog	ram: Certificate/	Class	Part A Int	Year: 2021	Session: 202	1-22
	oma/Degree/			2.001. 2021	Coston, Lor	a ree
	The state of the s		Subject	: NCC		
- 1	Course Code			100000000000000000000000000000000000000	(0)	
2	Course Title		NCC Awarer	ress	7	
3	Course Type (Core Course/Elective/Ge Elective/Vocationa	eneric	Elective		0 = =	
4	Pre-requisite (if an	Activis.	any subject :	s course, a stud and must be m lective and it is	ent must have passe edically fit. This cou open for all.	d 12° wit irse can b
5	CLO) The students will develop a sense of responsibility as display sense of patriotism, secular values, discipling bearing and develop the quality of immediate and implicit of good things. This paper will enable the students to develop leadership through communication. The relationship between personality traits and leadership achieved and executed.					
. 6	Credit Value		04			
7	Total Marks		Max. Marks: 2	25+75	Min. Passing Mar	rks:33
	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Por	THE RESERVE OF THE PERSON OF T	t of the Cours		100100
	National Cadet Corp The National Cadet Motto of National C Aims and Objectives Emblem, NCC Flag. Organization of NCC Training Centres of	Corps Act adet Corps s. . NCC son C-Army.N	.1948 s.	g-		
п	Introduction to Defer		1851			15
	Army, Navy and Air Organizational Structure Regimental Structure Badges and Ranks: Honors and Awards.	Force. cture in Ch e: commar Army, Nav	arts. ad and control.			13
III	Personality developm		- 54			15
AAA	Introduction to perso Factors influencing a	onality dev and shapin n building	g the personality , social skills, Et		ners, Decision making	15
IV	Leadership: Introduction and type Leadership traits. How to develop lead Leadership case stud	es of Lead lership.	ership.	iam H.F.J. Manek	shaw and General	15

Syllabus of Theory Paper

Prog	ram: Certificate/	Class	Part A Int	Year: 2021	Session: 202	1-22
	oma/Degree/			2.001. 2021	Coston, Lor	a ree
	The state of the s		Subject	: NCC		
- 1	Course Code			100000000000000000000000000000000000000	(0)	
2	Course Title		NCC Awarer	ress	7	
3	Course Type (Core Course/Elective/Ge Elective/Vocationa	eneric	Elective		0 = =	
4	Pre-requisite (if an	Activis.	any subject :	s course, a stud and must be m lective and it is	ent must have passe edically fit. This cou open for all.	d 12° wit irse can b
5	CLO) The students will develop a sense of responsibility as display sense of patriotism, secular values, discipling bearing and develop the quality of immediate and implicit of good things. This paper will enable the students to develop leadership through communication. The relationship between personality traits and leadership achieved and executed.					
. 6	Credit Value		04			
7	Total Marks		Max. Marks: 2	25+75	Min. Passing Mar	rks:33
	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Por	THE RESERVE OF THE PERSON OF T	t of the Cours		100100
	National Cadet Corp The National Cadet Motto of National C Aims and Objectives Emblem, NCC Flag. Organization of NCC Training Centres of	Corps Act adet Corps s. . NCC son C-Army.N	.1948 s.	g-		
п	Introduction to Defer		1851			15
	Army, Navy and Air Organizational Structure Regimental Structure Badges and Ranks: Honors and Awards.	Force. cture in Ch e: commar Army, Nav	arts. ad and control.			13
III	Personality developm		- 54			15
AAA	Introduction to perso Factors influencing a	onality dev and shapin n building	g the personality , social skills, Et		ners, Decision making	15
IV	Leadership: Introduction and type Leadership traits. How to develop lead Leadership case stud	es of Lead lership.	ership.	iam H.F.J. Manek	shaw and General	15

PART A INTRODUCTION

Pr	ogram Diploma		Class	B.Com Second year	Session 2022-23	
Sub	ject:		Commerce			
1	Course Code	C2-C01	VA1T			
2	Course Title	CORPO	RATE ACCO	DUNTING		
3	Course Type	Major				
4	Pre-requisite	Not requ	ired			
5	Course Learning Outcomes	1. An understar companies ar 2. A solid found Corporations 3. Describe the r for a compan 4. Prepare financetc.) using on 5. Prepare balance 6. Analyse the condia. 7. Describe the possible the possib	ading of the formed are ation in accordance. Act and Act and Act ationale, my. I all statements are sheet after ase study of the formed as a study of the formed are at a full act and a statements.	ounting and reporting ecounting Standards erits, and demerits of hts (Profit & Loss Acc	ment in which the requirements of the issuing bonus shares ount, Balance Sheet ion of company; ons of companies in	
6	Credit Value					
7	Total Marks	Max marks: 3	0+70	Minimum Passi	ng Marks: 33	

PART R. CONTENT OF THE COURSE

UNIT	TOPIC	NO. OF
1	Share: meaning, types, Issue, Forfeiture, Re-issue of shares , Redemption of Preference shares, Corporate Social Responsibility.	15
2	Debenture: meaning, types, Issue and Redemption of Debentures, Profit Loss Account and Balance Sheet of the Company (in brief),	15
3	Calculations of Profit and loss prior and post incorporation, Liquidation of company, Accounting for liquidation of companies.	15
4	Goodwill: Concept, types, characteristics/Nature, Valuation of Goodwill, Valuation of shares.	15
5	Meaning of Holding and Subsidiary Company, preparation of Consolidated Balance sheet of a holding company with one subsidiary company.	15
6	Accounting for Merger as per AS 14, Internal Reconstruction of a company as per Indian accounting Standard 14	15

Sul 1 2 3	gram: Certificate / bject Course code		Commerce	om Second year	Sessio	n 2022-23
2 3	Course code					
3	The state of the s	. (2-COMA2T			
-	Course Title		t Accounting			
	Course Type:		Major			
4	Prerequisite		No			
5	Course Learning	This subject of cost	accounting is v	ery important to mal	ce the stude	nt of
	Outcomes (CLO)	commerce subje	ct self-reliant, s	tudents from its stud	y ;-	
		1, know the princip	les, concepts, b	enefits, utility of cost	accounting	į.
- 1		2. In the event of se	tting up your o	wn industry, being se	lf-sufficien	in cost
		accounting, you	will be able to	acquire knowledge o	f the method	ds of
		material issue, co	ontrol and labor	payment.		
		 Will be expert in cost and finding 		t cost, finding tender	price, findi	ng contract
			-			
		Develop decision cost analysis	making ability	through marginal co	st analysis,	standard
			t employment :	as a cost analyst in sn	nall big bus	inate
			i cingaoymeni s	is a cost maryst in si	nam, oig ou	iness.
		houses.				
	Credit value	06				
	Total marks	Maximum Marks:	30 + 70	Minimum Passi	ng Marks :	
10	tal Number of Lect	The second second second second	cormen co	90		
		PARI-B:	COURSE CO	INTENTS		NA PROPERTY OF
NIT			TOPIC			NUMBER O
ı	Importance , Material Costing control and its Te	Concept and Classifi 2:Methods of valuati chniques . Labour Co	on of material i	ssued, Concept ,and of Wages Payment		18
2	(Including calcula	eparation of Cost Sh stion of Tender Price ag:Overhead costing),		our rate)	18
	Contract and Jo		and and	The second second	an care j	18
	Operating Costin	g (Transport Costing	g)			0.500
	Process Costing and Financial Acc	(Including Inter Procounts.	ess Profit and R	teserve) Reconciliation	on of Cost	18
	Application of	ng-Profit-Volume R Break-even Anu and Labour only)	atio, Break-ev lysis. Standa	en Point, Margin rd costing and	of Safety, Variance	18

PART A -INTRODUCTION

p,	ogram Diplon	PART A -INTRODUCTION Class: B. COM. Hnd Year Session: 2022-23
	ibject	Class: B. COM. Hnd Year Session: 2022-23 Commerce
I	Course Code	C2-COMB2T
2	Course Title	BUSINESS STATISTICS
3 Course Type		Minor
4	Pre-requisite	Not required
5	Course Learning Outcomes	1. Apply a basic knowledge of statistics to business disciplines; 2. Develop the ability to analyze and interpret data to provide meaningful information to assist in management decision making activities; 3. Apply appropriate graphical and numerical descriptive statistics for different types of data; 4. Apply probability rules and concepts relating to discrete and continuous random variables to answer questions within a business context; 5. Explain and interpret a variety of hypothesis tests to aid decision making in a business context; 6. Use simple/multiple regression models to analyze the underlying relationships between the variables.
6	Credit Value	06
7	Total Marks	Max marks: 30+70 Minimum Passing Marks 33

PART R. CONTENT OF THE COURSE.

JNIT	TOPIC	NO. OF LECTURES
1.	Statistics: Meaning, Definition ,Significance ,Scope and Limitations of Statistical investigation ,Process of data collection ,primary and secondary Data ,Methods of sampling, preparation of Questionnaire ,Classification and Tabulation of data, preparation of of statistical Series and its types,	18
2.	Measurementof Central Tendency- Mean, Mode, Median, Partition Value, Geometric Mean and Harmonic Mean.	18
3.	Dispersion and Skewness-Range, Lorenz Curve, Quartile Deviation, Mean Deviation, Standard Deviation. Coefficient of Variation, Variance. Correlation- Meaning, Definition, Types and Degree of Correlation, Coefficient of Correlation Methods.	18
4.	Regression Analysis—Meaning, Uses, Difference between Correlation and Regression, Rregression Equations, calculation of Coefficient of Regression Analysis of Time Series—Meaning, Importance, Components, Measurement of long term trends. Measurement of of cyclical and Irregular fluctuations.	18
5.	Index Number- Meaning, Characteristics, Importance and uses, construction of Index number, Cos of living Index ,Fisher's ideal Index number, Diagrammatic and Graphical presentation of data. Association of Attribute (only two variable), Meaning, Types, Characteristics, Methods of determining Association of Attribute	18

PART A - INTRODUCTION

Pro	gram: Diploma	Class: B.COM.2 nd Year Session:2022-2023
Sub	ject:	Commerce
1	Course Code	C2COMD2T
2	Course Title	Principle of Management
3	Course Type	Elective for Commerce faculty
4	Pre-requisite	Not required On having completed this course student should be able to:
	Learning Outcomes	 Demonstrate understanding of the role of managers in an organization Summarize the elementary concepts, principles and theories of management Examine the managerial functions having an impact on the organizational
		4. Identify the contemporary issues and challenges in management 5. Develop ethical workplace practices 6. Appraise the sources of influence to inspire the actions of other organizational members and evaluate the best control methods.
6	Credit Value	 Identify the contemporary issues and challenges in management Develop ethical workplace practices Appraise the sources of influence to inspire the actions of other organizational

PART B: CONTENT OF THE COURSE

Unit	Topic	No. of lectures
1.	Management: Concept/meaning, Definition, Nature Functions, Process, Scope and Importance of Management. Role of Vedic values and ethics in Management, Difference between Management and Administration, Evolution of Management though Early contributions: Taylor and Scientific Management, Fayol's Administrative Management, Bureaucracy, Human Relations, and Modern Approach, Managerial Ethics.	
2.	Planning - Meaning, Nature, Scope, Objective, Functions and Significance of Planning, Elements and Steps of Planning, Strategies and Policies, Origination - Meaning, Definition, Types, Scope, Principles, Line and Staff Relationship, Authority, Delegation and Decentralization. Effective Organizing, Organizational Structures, Staffing Decision - Meaning, Definition, Types, Scope, Principles, decision making,	15
3.	Meaning and definition of direction, importance and principles of direction, techniques of direction, meaning of supervision, meaning of coordination, elements and features of coordination, importance of coordination, cooperation and coordination, steps for effective coordination, management of conflicts.	15
4.	Motivation and Leadership - Motivation: Concept, Forms of employee motivation, Need for motivation. Theories of motivation. Meaning and Functions of a Leader, Characteristics of effective Leadership, types and theories of leadership and Leadership Styles.	15
5.		15

OPEN ELECTIVE NSS

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		Part - A Introduction	on .
Dip	loma Courses	Class II year	Session: 2022-2023
		Subject: National Service Sc	heme
1.	Subject Code,	NSS 02 - NSSA18	k
2.	Subject Title	Concept of National Service Sch	ieme
3.	Subject Type	General Electives	
4.	Pre-expectation (If Someone)	To study this course, a stud Course and This Course ca open for all.	lent must have passed Certificate n be opted as an elective and it is
	Outcomes (CLO)	character of the youth the development will help the cultural diversity of India better knowledge of the complete with the social second of the second of the second of the second of the student of t	ciety and establishing a reciprocal sity. and problems of the society and m-solving measures. of the student to deal with calamities. ration and social harmony. sures to find practical solutions to problems. study of the curriculum will not only lent but will also lead to all round students will understand the problems and their solutions, then ployment in government approved a social activities undertakings. Burse, the student will get basic munity which will be very helpful
3.	Credit Value	Theoretical -4	
7.	Total Marks	Maximum Marks 30 +70	Minimum Marks : 33



Syllabus of Theory Paper

Progr Diplo	ma/		: II Year ma Program	, 42)	Session: 202	2-23
		-	Subject :	NCC		
1	Course Code		D2 NC0	AIG		
2	Course Title		NCC Part II			
3	Course/Elective/G Elective/Vocation:	eneric al/)	Elective	-		
4	Pre-requisite (if a	ny)	Course and n		nt must have passed ly fit. This course ca or all.	
5	Course Learning outcomes (CLO)		life. They will national integra Give awareness of tree planta	come to know thation, social services to the youth al	e role of NCC in difference importance of time in ices and community doout environment and bing a clean and polafety rules	nanagement levelopment importance
6	Credit Value		04			
7	Total Marks		Max. Marks: 3	0+70	Min. Passing Mar	ks: 33
3.7	184867	Divis	D Contont	of the Cours	The second of the second	
-	Total nur				hours per week	
	Total nul			s L-T-P (02-		
Unit	Topics					No. of Lectur
I	NCC GENERAL					15
	 Incentives of 	FNCC.				
	Duties of NCC Cadet.					
	 NCC Camps 	: Types & (Conduct.			
	Control of the Contro		agement in daily li	fe.		
	Various entry in defense services through NCC.					
				calamities and w	/ar.	
п	The state of the s					10
**	National Integral	tion & Av	areness.			15
	 National Int 	egration:	Importance &	Necessity.		
	 Factors Affi 	ecting Nat	ional Integratio	in.		
	 Unity in Div 	ersity.		-		
	 Role of NCC 	Section United to the second	Building.			
	 Threats to N 					
			0.53117850	el in National in	togration and	
	nation build		Undorr briar i de	or iii wadonai iii	tegration and	
Ш	Social Service	1.00	nunity Develo	opment.		15
100000	Basics of se	ocial service	e and its need.	A STATE OF THE PARTY OF THE PAR		1.5
	 Types of so adult educat prevention a 	cial service ion, service and cure.	activities, bloo es in old age ho	mes etc, Cancer		
	 Objectives of 	of rural dev	elopment progr	ams and its impo	ortance.	
	 Role of NC 	C and its c	ontribution in se	ocial welfare act	ivities.	
	 Traffic awa 					

Volational paper E-Accounting Taxation with CIST

			RODUCTION	· Session:wef20.	22.21
rogram: 6	ertificate/Diploma	/Degree Class:.	-II yr	Session: we/20.	22-23
		Subject: Co	OMMERCE		
1.	Course Code	V2-C01	A-GSTT		
2.	Course Title	E-Filing of Tax Re	turns		
3.	Course Type	Vocational			
	Pre-Requisite(if any)	NO			
5.	Course Learning Outcomes(CLO)	1: Know the Income tax filling is man 2: Understand tax liability, forms. 3: Understand deduction a returns. 4: Become as including its utilization 5: Know about	returns and undersidatory. he basic process of and know about various the concept of ad a source and development of the basic from the meaning of input.	re-tiling and regular resistand the circumstances who computing taxable income rious types of income tax revance payment of tax and op the ability of e-filing of amework and structure of out tax credit and the process.	e and eturn d tax TDS GST,
6.	Expected Job Role/Career Opportunities	Tax Consultant, Register as GST savidha provider, Tax Advisor, Accountant at CA and CS office.			
7.	Credit Value	4 (L / P/T)			
		PART-B:CONTE	NT OF THE COU	RSE	SIL
Total No.	of Lectures - Practica	d (in hours per week): I	-2Hrs / P-2Hrs		
10017-0	Of Lectures Traction	Total No. of Lectures/1	ractical: L-30hrs/P-/	T 30hrs	
Module			opics		No. of
1	 Benefits at 	f e filing between e filing and m id limitations of e filing	sanual filing of returns	1	8
11	Basics of 6 Deduction Application	neome Tax: ninology assesses exable under different h computation of total inc a available from gross in for PAN card	come and tax liability total income		7
111	7) Due date of TDS and E Filing 1) introduction 2) provisions 3) schedule 1	of filing of income tax	yment of tax		8

Vocational paper Retail management

		Pa	rt A Introduct			THE PARTY OF THE P
Program	: Under Gradu	ate Course	Charle	II ye	Session: 20.	22-23
				-	The state of the s	
Course (Code			V2- Con	M-REMT	
Course 7	little	Supply Chain a	and Retail Manag	ement		
Course Type		Vocational				
Pre-requ	isite (if any)	Certificate Cou	irse			
	Learning s (CLO)	Understa Understa Understa Understa Understa Understa System	and the importance and the fundament and the fundament	al concept of of Supply C al concept of al concept of procedure	Supply Chain Man hain Management Logistics System Warehousing of Warehousing	
and the second	d Job Role / Opportunities	director or supp	ger: A Purchase N ly manager, Strate Warehousing Ma	egic Planner.	so known as the pu Materials Analyst.	rchasing Supply
Credit V	alue		2 (Theory)	+ 2 (Practie	al) = 04	
		Part B-	Content of the	Course		
Total No.	of Lectures + Pra	ctical (in hours per v	week): L-1 Hr / P	-1 Lah Hr (=2	Hrs)	
			ctures/ Practical: L-	CONTRACTOR OF THE PARTY OF THE		
Modul			Topies			No. of
e						lectures (Total 30
1	Supply Chain	Management (SC	CM)			
	of SCM; Comp	Supply Chain Man conents of SCM.TI rs and vendors in S	he distribution acr			10
11	Logistics Syste	em, Warehousing	. Transportation	Systems		
	Warehousing a	mework of Logisti nd distribution cer on Systems, facilit M.	nters, their location	i; Modes and	Characteristics	10
111	Retail Market	Strategy				
***	through Custor	Strategy: Concept, ner Loyalty, Locat n System, Vendor	tion, Human Reso	urce Manager	ment, Distribution	10

Notational paper personality Development

232	i Code	te Course III yr. 1 Sessi	on: 2022-23
regram:	Under Gradu	He Course	ALT THE
ourse Co	de la	V2- PSY_ DEV	г
World High		Personality Development	
ourse Ti	de		
ourse Ty	pe	Vocational	
re-requi	site (if any)	Certificate course	
Course Li	carning (CLO)	After completion of course, students will be able to 1. Students will gain knowledge about the basics of Person 2. Students will learn to implement techniques of Persona 3. Students will develop Skills of self-resilience and assert personality. 4. Students will learn Interview skills. 5. Students will be able to understand about the important needed for personality development.	iveness in their
Expected	Job Role /		*
Credit V	portunities	2 (Theory) +2 (Practical) = 04	
Credit v	anic	Part B- Content of the Course	英多多更明明
Total No.	of Lectures + P	Total No. of Lectures Practical: L-30 /P-30 (60 Hrs)	
		Total No. of Lectures Practical Door	No. of
Module			lectures (Total 30
		Personality:-	10
1	Nature and D		10
	Classification	of Personality -	
	Jung, Sheldo	n, Kretschnier and five factor theory	
11	Self comrol, behavior, int	of Personality Development: self resilience, self esteem, factors affecting assertiveness, pro – sepersonal relationships issues.	ocial 10
	Interview sk	lls reas of Personality Development:-	
111	Life skills -	igence and Personality Development (SQ)	10

vocational paper office procedure 3 prac.

			Part A Introduction	
rogram: Unde	er Graduate	Course	waters of	ession: 022-23
		G GOOD	and the second s	
Course Code			VZ-OFM-OPPT	
Course Title Pre-requisite (if any)		FFICEPROC	EDURES&PRACTICES	
			Beginner (Level-1) Course	
Course Learni outcomes (CLC	0)	Understand th Differentiate Manage sees mail Handling, fil- handle cor Written com different t Draft differe	e Course, the students will be able to: ne concept of Office, role of Office Manager between Organizational Charts and Manuals retarial activities independently like filling online and offine off ing and indexing, managing stationery etc. Communicate effect minumication services independently – oral and munication, barriers, observe telephone etiquettes. Handle in types of Office Machines int types of Business and Govt. letters different terms related to meetings and conduct meetings erary and make travel arrangements. ous services provided by the Banks	nively and
Expected Job	Role /			
Credit Value	unities		2 (Theory) +2 (Practical) = 04	
	THE REAL PROPERTY.	Par	rt B- Content of the Course	
Total No. of Lo	ectures + Practi	ical (in hours pe	er week): L-1 Hr / P-1 Lab Hr (=2 Hrs)	
FOLIS NO. OF LA	Citiza I I I I I I	Total No.	of Lectures/ Practical: L-30 /P-30 (60 Hrs)	
Module			Topics	No. of lectures (Total 30
1	Meanin		RETARIAL PRACTICE 2. Types and Duties, Changing Profile of a Secretary, ersonal Qualities of a Secretary, Time Management – nee	6
ır	OFFICE FO Office Fo Computer Stationery Stationery	orms AND ST. orms, Mea	ning, importance and advantages of Office forms, ffice forms, Principles of Form Designing, Office of purchasing stationery, Purchase Procedure, Storing consumption of stationery, Maintenance of Stock Register,	6
111		- marina	and Types of communication, Elements of communication	

		-		Introduction		
Subl	ram: Degree	Class:	B.COM	Year: I Year	Session:2021-2022	
-	ect:Commerce		100			
1	Course Code		CI-CO	MA 2T		
2	Course Title		BUSINE	SS ORGANIZA	TION AND COMMUNICAT	TON
3	Course Type (Core Course/Elective/Ger Elective/Vocational)	- M	linor		
4	Pre-requisite (if as		Not requ	ired) open for all		
5	(CLO)	utcomes	business communi	d the busies of the	urse it is expected that he atta business and will able to embib id successfully. The chapter to elucidate how communications and approximation of the second secon	e how any
6	Credit Value		6		E 3	
7	Total Marks		Max. Ma	irks: 25+75	Min. Passing Marks:33	
		Par	White Street or other Designation of the last of the l	tent of the Co		-250
Total	No. of Lectures-Tu	torials-Pro	etical fin	hours ner week)		
L-T-	P:		and and diversity	2	V	
Unit	Topics			NAVA		No. of Letteres
	Trade, Industry a Industry and Co	nd Comm	Business	Bsification - Re	tures. Concepts of Business, elationship between Trade.	15
	business - Steps to	Start an En	Functions terprise.	of Business and	Social Responsibility of a	
2	FORMS OF BUSI Factors Influencing and Partnership — Organization—Mes	Start an En NESS ORI the Glose Megaling, I ning Funct	Functions adaptive. IANIZATI of Suitab Definition ions and L	ON: Business On its Form of Organ - Characteristics imitations of Co-	Social Responsibility of a rganization - Classification - ization - Sole Proprietorship - Advantages. Co-Operative sociatives Societies.	15
3	business - Steps to FORMS OF BUSI Factors Influencing and Partnership - Organization - Mes ORGANIZATION and Significance of (MNC'S) and the C	Start an En NESS ORG the Ghoic Meaning, I sing Funct OF COMP Private Co hallenger	Functions temprise. DANIZATI Fof Suitab Definition ions and L ANIES: Company an of their one	ON: Business On the Form of Organ - Churcleristics imitations of Co- cencepts, Meaning of Public Compan matzation in India	Social Responsibility of a rganization - Classification - ization - Sole Proprietorship Advantages. Co-Operative operatives Societies. Le Formation, Characteristics y Multinational Companies	15
	business - Steps to FORMS OF BUSI. Factors Influencing and Partnership - Organization - Me. ORGANIZATION and Significance of (MNC'S) and the C COMMUNICATIC Communication to Transaction theory. Linguistic Barriers. Physical Barriers.	Start an En NESS QRE, the Ghoice Menting, I ning Funct OF COMP FPrivate Co hallenges NN: Definit beories an Elements , Psycholog Organizatio	Functions notprike IANIZATI ANIZATI For Suitab Definition ions and L ANIES: Company an of their org ion, Nature d process of commun gical Barrie nal Barrien	of Business and ON: Business Or the Form of Organ - Characteristics - Imitations of Co- cencepts, Meaning d Public Compan anization in India to, Importance, Ob- Information inication process. ers, Interpersonal	Social Responsibility of a ganization - Classification - ization - Sole Proprietorship Advantages. Co-Operative operatives Societies. Formation, Characteristics y Multinational Companies jectives of Communication heory, Interaction theory, Barriers to Communication: Barriers, Cultural Barriers,	
3	business - Steps to FORMS OF BUSIL Factors Influencing and Partnership - Organization - Mes ORGANIZATION and Significance of (MNC'S) and the C COMMUNICATIC Communication theory, Linguistic Barriers Physical Barriers Written Communic Principles, Purpos Drafting of report, for effective listent	Start an En NESS ORG the Ghote Menting, I sing Fanct OF COMP Frivate Co hallenger NN: Definit beories an Elements Psychologoration: Write to, Types of Oral Comman, Job Internal	Functions neighbor and LANIZATI ANIZATI ANIZATI POPULATION OF SURE PROPERTY OF SURE PROPERT	of Business and ON: Business Or the Form of Organ Characteristics imitations of Co- concepts, Meaning d Public Compan antization in India a, Importance, or information incation process, ers, Interpersonal a ques and Guidel s letters, Report Speeches for dif- pre of information	Social Responsibility of a regarization - Classification - ization - Sole Proprietorship - Advantages. Co-Operative operatives Societies. Formation, Characteristics y Multinational Companies - igentives of Communication. heory, Interaction theory, Barriers to Communication: Barriers, Cultural Barriers, ines. Letter writing - Basic writing, types of reports, forest occasions. Guidelines.	15

(DR. PAVAN MISHRA)

Pro	gram: Certificate	Part A Introduction	THE LINE	S SAME THE SAME
110		Class': BBA I Year	Year:2021	Session:2021-202
1	Course Code	pject: MICRO ECONOMICS		
2	Course Title	M1-BBA1	BIT (Group-	-11)
3	Course Type (Core .		BBA	
	Course/Elective/Generic Elective/Vocational/)	(Cor	e Course)	
4	Pre-requisite (if any)	Not Required (Open for All)	1.0	
6 7 Total	Credit Value Total Marks Part No. of Lectures-Tutorials-Pra P: 90	1. Students will underste principles of micro economic 2. Students will be able to u supply rules and elasticity. implement it. 3. Utility, apathy analysis are be able to understand. 4. Students will be able to unclassify costs and incomes. 5. Students will be able to different market systems. 6. Students will be able to uncalculated. (Cre	and the interest of the content of t	e basics of demand also learn how to arplus, students will oduction principles the comparison of v national income is
	Topics			
	Introduction to aconomics D	C :::		No. of Lectures
1	Introduction to economics, De of Economics, Significance Functions of Managerial Econo	and Evolution of Micro I	Economics,	10
2	Concept of Law of Demand Equilibrium, Elasticity of Dem			15
3	Utility Analysis, Marginal (Analysis: Assumptions, Prop Consumer Surplus.	erties of indifference curve,	Theory of	20
4	Elements of Cost, Factors of Interest, Theories of Profit.			20
5	National Income: Estimates a Methods of Measurement o Structure, Perfect v/s Imperfect		DP, HDI), of Market	25
eywo	nus/rags.			
	Part	C-Learning Resources		
	Lext Books	Reference Books, Other resou	irces	
	sted Readings: Maddala& Miller, Microecono, Sinha V. C., Principles of Econ	nice Theory and Analisms		at 2017

Prof. Dr. S. K. Khatik.
Chairman, Central Boord of Studies,
Professional Mgt. BBA Course

	gram: Certificate	Part A Introduction	4000 4000 400
		Class': BBA I Year Year:2021	Session:2021-202
1	Course Code	CU: BUSINESS MANAGEMENT	
2	Course Title	M1-BBAA1T (Group	-1)
	Course Type (Core	BBA	
3	Course/Elective/Generic	(Core Course)	1 1
4	Pre-requisite (if any)	Not Paguired (O. C. 11)	
	Course Learning outcomes	Not Required (Open for All)	
5	(CLO)	1. Student will be able to assess the planning, coordinating, and monibehaviour. 2-Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various form structures and their importance. 4. Students can learn about various businesses to maintain and improve emple 5. Students will be able to understand hor different leadership and	n-making technique ensure to remain in of organizationa strategies used by oyee efficiency.
6	Credit Value	different leadership styles to stay competi	tive
7	Total Marks	(Cradit) 6	HVC.
1		Max Marks: 25+75	Marka 22
oto	No off Part	B- Content of the Course	IVIGIAS.23
			THE RESERVE OF THE PARTY OF THE
-T	P. on	ctical (in hours per week):3 Hours	· 新 · 杨 · 南
-T-	P: 90	B- Content of the Course ctical (in hours per week):3 Hours	Charles Allers of
L-T-	P: 90 Topics	ctical (in hours per week):3 Hours	No of Last
nit	P: 90 Topics Management in Indian Culture Management, Functions and I	and Tradition, Definition and Meaning of	No. of Lectures
Init	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of	No. of Lectures
nit 1	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process &	
nit	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start Organization: Nature and Puprocess of Organization. structures: types and relevance.	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process & ups'. Topose of organization. Importance and Departmentalization, Organizational	18
1 1 2 2 3	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start Organization: Nature and Puprocess of Organization. structures: types and relevance, Authority- Delegation, Decentricand power- Responsibility, Red Direction—Nature and Puproces	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process & -ups'. Tropose of organization. Importance and Departmentalization, Organizational Line and Staff relationship. Alization – Difference between Authority cruitment- Sources, Selection, Training,	18
1 2 2 3	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start Organization: Nature and Purpocess of Organization. structures: types and relevance, Authority- Delegation, Decentra and power- Responsibility, Red Direction –Nature and Purpose. Leadership: Meaning, Importa Styles, Motivation: Types & s Theory X & Y of Mativation.	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process & -ups'. Tropose of organization. Importance and Departmentalization, Organizational Line and Staff relationship. Alization – Difference between Authority cruitment- Sources, Selection, Training, once, Types of Leadership, Leadership ignificance, Maslow's Need Hierarchy, An overview of Strategic Management, busic Alternative Chapter of Management, busic Alternative Chapter of Management, busics Alternative Chapter of Management of Managem	18 18

28.5.2021

Prof. Dr. S. K. Khatik. Chairman, Central Board of Studies Professional Management BBA Course

	gram: Certificate	Part A Introduction	4000 4000 400
		Class': BBA I Year Year:2021	Session:2021-202
1	Course Code	CU: BUSINESS MANAGEMENT	
2	Course Title	M1-BBAA1T (Group	-1)
	Course Type (Core	BBA	
3	Course/Elective/Generic	(Core Course)	1 1
4	Pre-requisite (if any)	Not Paguired (O. C. 11)	
	Course Learning outcomes	Not Required (Open for All)	
5	(CLO)	1. Student will be able to assess the planning, coordinating, and monibehaviour. 2-Through various planning and decision students can learn about how businesses a competitive market. 3. Students will understand various form structures and their importance. 4. Students can learn about various businesses to maintain and improve emple 5. Students will be able to understand hor different leadership and	n-making technique ensure to remain in of organizationa strategies used by oyee efficiency.
6	Credit Value	different leadership styles to stay competi	tive
7	Total Marks	(Cradit) 6	HVC.
1		Max Marks: 25+75	Marka 22
oto	No off Part	B- Content of the Course	IVIGIAS.23
			THE RESERVE OF THE PARTY OF THE
-T	P. on	ctical (in hours per week):3 Hours	· 新 · 杨 · 南
-T-	P: 90	B- Content of the Course ctical (in hours per week):3 Hours	Charles Allers of
L-T-	P: 90 Topics	ctical (in hours per week):3 Hours	No of Last
nit	P: 90 Topics Management in Indian Culture Management, Functions and I	and Tradition, Definition and Meaning of	No. of Lectures
Init	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of	No. of Lectures
nit 1	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process &	
nit	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start Organization: Nature and Puprocess of Organization. structures: types and relevance.	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process & ups'. Topose of organization. Importance and Departmentalization, Organizational	18
1 1 2 2 3	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start Organization: Nature and Puprocess of Organization. structures: types and relevance, Authority- Delegation, Decentricand power- Responsibility, Red Direction—Nature and Puproces	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process & -ups'. Tropose of organization. Importance and Departmentalization, Organizational Line and Staff relationship. Alization – Difference between Authority cruitment- Sources, Selection, Training,	18
1 2 2 3	P: 90 Topics Management in Indian Culture Management, Functions and I manager, Principles of M Management. Planning: Process, Types and Objective, Strategies and Poli Significance, Planning for Start Organization: Nature and Purpocess of Organization. structures: types and relevance, Authority- Delegation, Decentra and power- Responsibility, Red Direction –Nature and Purpose. Leadership: Meaning, Importa Styles, Motivation: Types & s Theory X & Y of Mativation.	and Tradition, Definition and Meaning of Responsibilities of Management, Role of anagement. School & Thoughts of Significance, Planning vs. Forecasting cies, MBO. Decision Making: Process & -ups'. Tropose of organization. Importance and Departmentalization, Organizational Line and Staff relationship. Alization – Difference between Authority cruitment- Sources, Selection, Training, once, Types of Leadership, Leadership ignificance, Maslow's Need Hierarchy, An overview of Strategic Management, busic Alternative Chapter of Management, busic Alternative Chapter of Management, busics Alternative Chapter of Management of Managem	18 18

28.5.2021

Prof. Dr. S. K. Khatik. Chairman, Central Board of Studies Professional Management BBA Course

Mar.					NAME OF TAXABLE PARTY.	District of the last of the la
Progr	ramme:Diploma	Class: B.Sc.	Year: Second Y	ear	Session:2022-23	
		Subject	: Microbiology			
1	Course Code-	-	S2-M	3102T		
2	Course Title		oial Diversity and			
3	Course Type Pre-requisite (if an	Core C	ourse (Major I/ N ly this course, a st	inor/ Elec	tive)	blect
		Microl	dology in certifica	le course.		32.77
5	Course Learning outcomes (CLO)	• Cla cha • Der gro • Un	spletion of this coursely bacteria into gracteristics, cribe the nutritions with. derstand viruses and ow about diversities relop a basic idea a	roups and requirem viral disc in Fungi	their salient ents of bacteria for ases. and Algae	
6	Credit Value Total Marks				-	
TO STATE OF THE PARTY OF THE PA	oporpi na		farks-30+70	The same of the sa	Min Passing Ma	rks-33
	TELLIS OF THE PARTY OF THE PART		taris-30+70		Min Passing Ma	rks-33
			taris-50+/0	pro-	Min Passing Ma	na-33
TO I STATE OF THE PARTY OF THE			taris-30+70		Min Passing Ma	na-33
· Company of the comp			taris-30+/0		Min Passing Ma	ns-33
The state of the s			Taris-30+70		Min Passing Ma	na-33

Session - 2021-22

Microbio - Core - Paper -I & Proctical

Part A - Introduction							
Programme: Certificate	Class: B.Sc.	First Year	Session: 2021-32				

Subject: Microbiology

1	Course Code-	SI-MBIOIT
2	Course little	General Microbiology and Cell Structure (Paper I)
3	Course Type	Core Course
4	Pre-requisition	To study this course a student must have had the subject Biology in class 12 th
5	Course Learning Outcomes (CLO)	After completing this course in Microbiology, a student shall have understanding of - Indian traditional knowledge and historical background of Microbiology, Structure and transmission of Viruses. Cell structures and cell organization of bacteria. Different sinds of unicellular prokaryotic and eather the microorganisms based on specific characteristics. General characteristics of important Eubacteria.
6	Credit Value	
7	Total Marks	Max. Marks: 25+75 Min. Passing Marks: 33

Pro	ogramme	Part A	- Introduction			
Cer	rtificate Course	Class: B.Sc.	Year: First Year	Session: 2021-22		
		Subjec	t: Microbiolog			
1	Course Code-	S1-MBIO1P	7/			
2	Course Title	Study of No.		13/		
3	Course Type	Core Course	org misms (Paper 1)			
4	Pre-requisition	To study this course a student must have had the subject Biology in class 12 th				
5	Outcomes (CLO)	On completion understand: • Isolatio • Micross funga • Structur	and protozoa.			
5	Credit Value	2				
7	Total Marks	Maximum N	larks : 25+75	Min. Passing Marks: 33		

Amil Preken

Session - 2021-22

Microbio - Core Paper I & Practical

			гар					
		Part A - Int	troduction	Children or the Control of the Contr				
Pro	gramme: tificate Course	Class: B.Sc.	Class: B.Sc. First Year Session: 2021					
		Subject : M	icrobiology					
1	Course Code-	S1-MBIO2T						
2	Course Title	Microbial Test						
	Course Type	Core Course	niques (Paper II)					
4	Pre-requisition	To study this co	To study this course a student must have had the subject Biology in class 13th					
	Course Learning Outcomes (CLO	have under stan Recall the be Summarize of pure Understand the and mice Apply serial Practice difficulty and interest of the standard to the standard term of the standard term	ding of – usic lab glassware to be different methods of st cultures, the working of different asseopes, dilution technique to i erent methods to culture asseopes.					
	Credit Value Total Marks	Max, Marks: 25	5+75	Min. Passing Marks 33				

Amil Prakash

1000		PART A: Introduction			
Prograi	n; Certificate	Class: BCA Year: I Year	Session: 2021-22		
1.	Course Code	SI-BCACIG			
2.	Course Title	Computational Mathematic	8.		
3.	Course Type (Core Course/Elective/Generic Elective/ Vocational	Elective			
4,	Pre-Requisite (if any)	Students must have basic analytical aptitude.	The state of		
5,	Course Learning Outcomes (CLO)	nes On successful completion of the course the stable for 1. Implement trigonometric solutions for real world scenarios 2. Implement instrices and simultaneously complex problems 3. Use statistical tools efficiently 4. Use Mathematical Logic and predict solving problems 5. Apply the concepts of set theory for fineset related problems			
6.	Credit Value	Theory - 6 Credits			
7.	Total Marks	Max. Marks: 25+75 Min. Passing Ma	irks: 33		
		RTB: Content of the Course			
		is (in hours per week): 3 lectures Per week Fotal No. of Lectures: 90 Hrs.			
Unit	and the second	Topics	No. of Lecture		
I	LESS EXCENSES	Measurement, Values of Trigonometric Ratios, ary Matrices and types of matrices.	18		
Ш	Equations: Simultaneous lines equations, Quadratic equations.	ar equations, Methods of Solving Simultaneous	18		
Ш	Statisties: Frequency Distribution Median, Measures of variation: Mean devi	ion, Measure of Central Tendency: Mean, Mode,	18		
	Mathematical Logic: States	nents and notations, Connectives: Negation,	18		
īv	Conjunction, And Disjuncti	on. Statement fermulas and truth tables ications, contradiction contingency	1.0		



		Contract of the last of the la	TA: Introduc	Year: I Year	Sar	sion: 2021-22
rogram	Certificate	Class: B.C.A		Coar a seer	act	MAN AWAITAN
T.	Course Code		51-13	CAB2T		
2.	Course Title	- (Operating Syste			
3.	Course Type (Core Course/Elective/Gene Elective/ Vocational	eric	Minor			
4.	Pre-Requisite (if any)		Open for all		and construction of the last	
\$1	Course Learning Out (CLO)	comes	be able to Describe and the re policies a Specify of describe time. Understat can comp synchron Describe technique Identify t for any p Describe methods To under operating against til	he best suited process, various file operation and disk space man stand and identify p systems and the se- tion.	computer cem in the coperation in operation managem- ing technicks, mory man ess management, opens, file coperation opens, file coperation	system resource rir management ig systems and evolved over tent concepts and ingress, magement gement technique illocation hreats to
-	20 EVEL 1	- 1	Learn to	operate the Linux sy dits Practical - 2	Credite	
ō.	Credit Value		Max. Marks: 25	a75 Min Do	ssing Ma	rice: TT
7,	Total Marks		and the control of the last terms of the control of	the first terminal and the second	astron serie	1105, 55
2 - 120	500	PARTB	: Content of th	te Course		
	No.	of Lectures (in	nours per week)	2 Hours per wee	H.	
		1001 (No. of Lectures: Topics	ou airs.		No. of Lecture
Module I	Introduction to O Evolution of OS, Operating System Multiprocessing Systems, Operating System Devices, Applications of var	Basic OS furms— Barch ystems, Time S for Personal risus operating s operating systems	m: What is Open netions, Resour Systems, Mul- haring Systems, Computers, We system in real we ms — Window	rating System? Hast ce Abstraction, Ty hiprogramming S , Distributed OS, Re orkstations and Ha orld, s, UNIX/Linux, A	ypes of ystems, eal time and-held	6
11	Process Managen Block	nent: Process C	ling Criteria,	Scheduling Alg	orithms	14

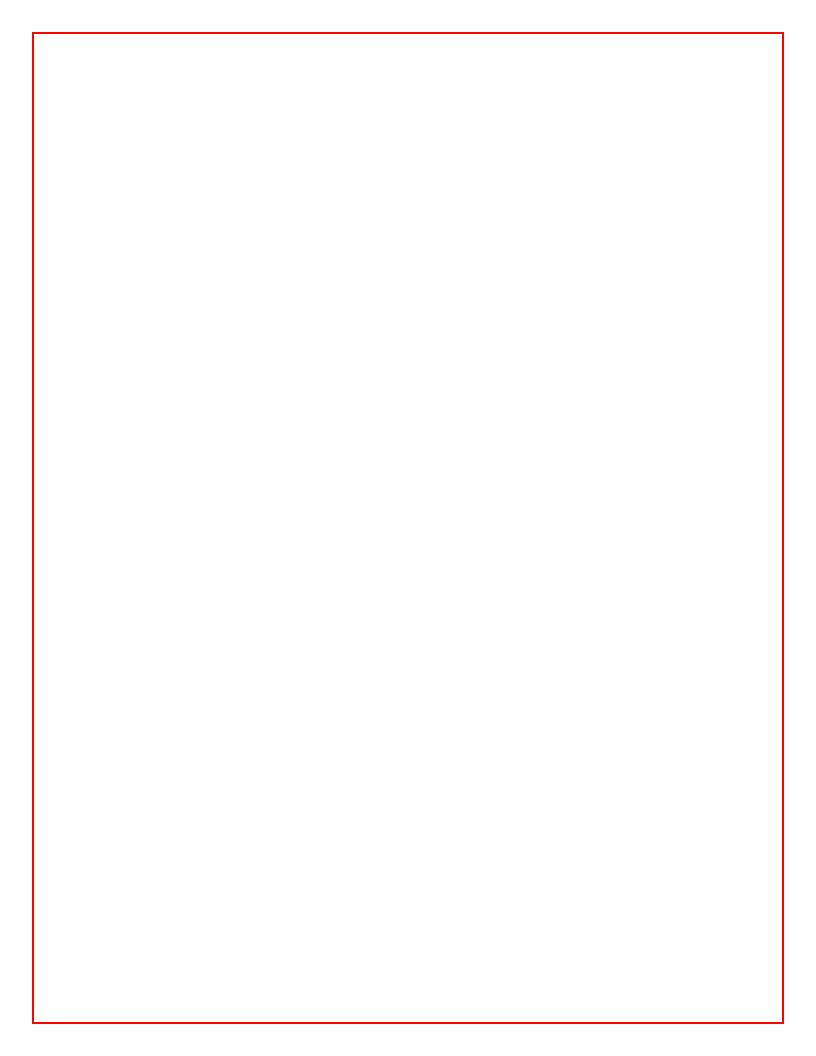


1000	1000	CONTRACT OF STREET	The second secon	Contract of the Contract of th	troduction	Lo	2021 22
Progra	n: Cert	ificate	Class: B.	C.A.	Year: I Year	Sess	ion: 2021-22
-	1700	se Code		SI-BCAAIT			
1.	and the second second	And in case of the control of the case of		Computer Fundamentals, Organization and Architecture			d Architecture
_	Course Title Course Type (Core					The state of the s	a streamtestors
Course Type (Core Course/Elective/Generic Elective/ Vocational				Major - Paper I			
			A STATE OF THE PARTY OF THE PAR				
-	-	lequisite (if any		To enade	his course, a student m	est have has	e knowledge of
4.	Pro-N	equisite (it any		Computer		une that we come	to tone arresting or
5.	Come	se Learning Ou		After th	e completion of this	course, a so	ecessful studen
3.	(CLC	DOMESTIC OF THE PROPERTY OF TH	and the same of	will be a			25-200000000000000000000000000000000000
	- to-so	1		NO SECTION OF SECTION	nderstand the basic	steriotore	operation an
	Deter				aracteristics of digital c		Operation in
							AND ADDRESS OF A
	3 - 31		0.20		esign simple combinati	onar digital	circuits oused o
	10.3		6.2		ven parameters.		
	98.3		15 4 34		nderstand the working o		
	1				now about hierarchien		system includin
					che memories and virtu		
			5 - 01		now the contributions		
				CC	enputer architecture and	i related tecl	anologies.
-	Vision (C	it Value		Theory	4 Credits Practical -	2 Credits	
7.		Marks			rks : 25+75 Min	Passing Ma	orks: 33
7-	10100	(Vidua)	and the same of th	2000000	nt of the Course		
-147-	-	N.			er week): 2 Hrs. per we	eek	
					ctures: 60 Hrs.		
Man	dule		10101	Topic	Committee in the Committee of the Commit		No. of Lecture
14101	aure.	Fundamenta	ls of compute		ition, Characteristics,	canabilities	8
_ 4	134	and limitation		00.0355		100	
				4000			776
		Types of Cor	nputers: Analog	, Digital,	Micro, Mini, Mainfrar	ne & Super	
		Computers, Work Station, Server computers. Generations of Computers.					
		Smart Systems: definition, characteristics and applications.					1
		Definition of	Definition of Embedded system, GIS, GPS, Cloud Computing.				
		Uses of computers in e-governance and various public domains and					220 CORN-14
		services.	The state of the state of			Account of the	
- 1	H.	Block diagn	em of comput	er and	ts functional units.	Concept of	10
		hardware, sol	hardware, software and firmware. Types of software,				
		Input device	s - keyboard, s	scanner, r	nouse, light pen, bar c	ode reader,	
		OMR, OCR.	MICR, track be	il, joystic	k, touch screen camera,	mic etc.	E76-70W/
		Output dev	ices: monitors	- class	ification of monitors	hased on	The state of
		technology -	RT & flat pan	el, LCD.	LED monitors, speaker	s, printers ~	
	- ANG	dot matrix	ormter, ink jet	printer,	laser printer, 3D Printes, LCD/LED projecto	icis, Wi-fi	Francisco Co.
	- 100	Lenabled nemt	ers, piotters and	IDOM TVE	es 13, 13/14/13/ projecto	115.	



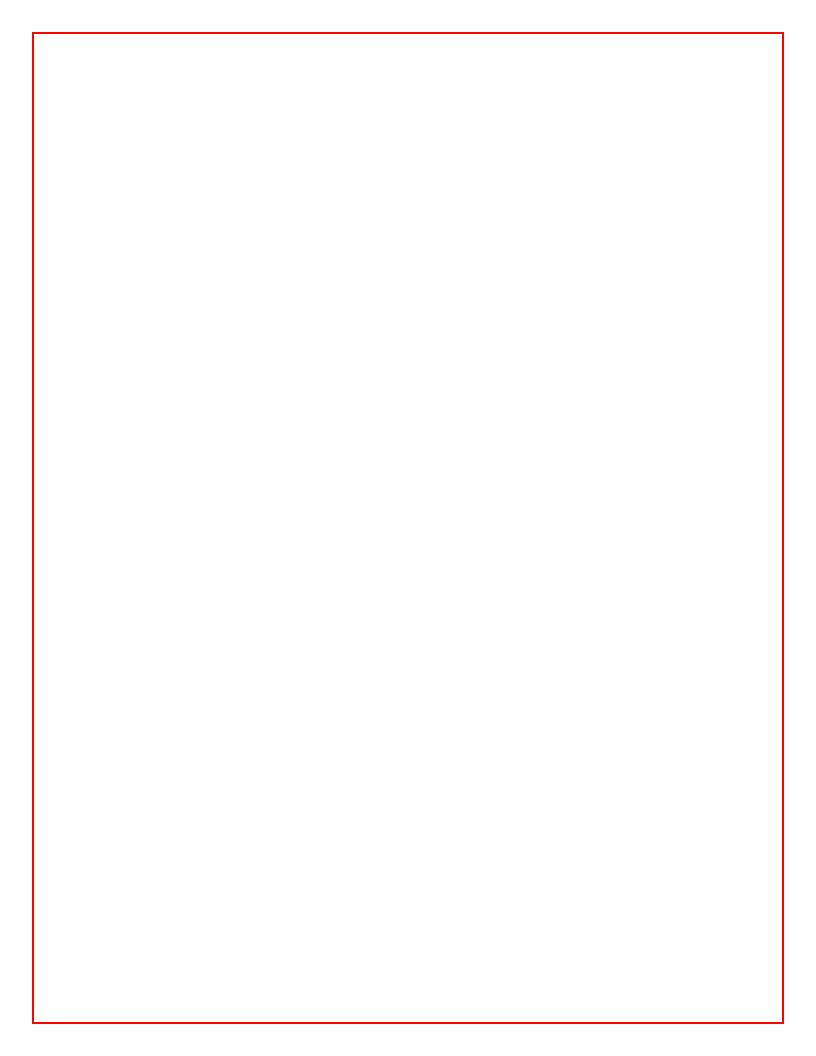
	m		P	ART A: I	ntroduction		1)	
Program	m: Ce	rtificate	Class:	B.Sc.	Year: I Y	ear	Ses	ision: 2021-22
- 12	V		Sub	ject: Com	puter Science		-/-	
1.	Cou	rse Code		SI-COS	CIL			
2.	Cou	Course Title		Computer System Architecture (Paper 1)				
3.	Cou	Course Type (Core Course/Elective/Generic Elective/ Vocational		Core Course				
4.	Pre-	Pre-Requisite (if any)			this course, a s Maths in 12th cl		have ha	d the subject
5.	Course Learning Outcomes(CLO)		On completion of this course, learners will be able to: 1. Understand the basic structure, operation and characteristics of digital computer. 2. Be able to design simple combinational digital circuits based on given parameters. 3. Familiarity with working of arithmetic and logic unit as well as the concept of pipelining. 4. Know about hierarchical memory system including cache memories and virtual memory. 5. Understand concept and advantages of parallelism, threading, multiprocessors and multicore processors. 6. Know the contributions of Indians in the field of computer architecture and related technologies.			and digital circuits and logic unit as including cache arallelism, processors.		
6.	-	lit Value	000	Theory – 4 Credits				
7.	Tota	l Marks	477	-	irks : 25+75		assing M	larks: 33
				-	ent of the Cour	And the last of th		SUMES !
		- 1	Control of the later of the lat		er week): 2 Hr			
			Total		sctures: 60 Hrs.	-		120
Mod	fule	1		Topi				No. of Lecture
	9	Fundamentals of Digital F Fixed-Point Representation other Codes, Error Detectio Logic Gates, Boolean Alge Circuits, Sequential Circuits problems. Circuits- Adder- Subtracto Encoders Flip - Flops, Regi		Floating-in Codes. bru, Map 5 s, simple con, Multiple	Point Represent Simplification, combinational ci xer, Demultiple	tation, Binar Combination rouit design	y and sal	10



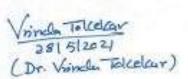


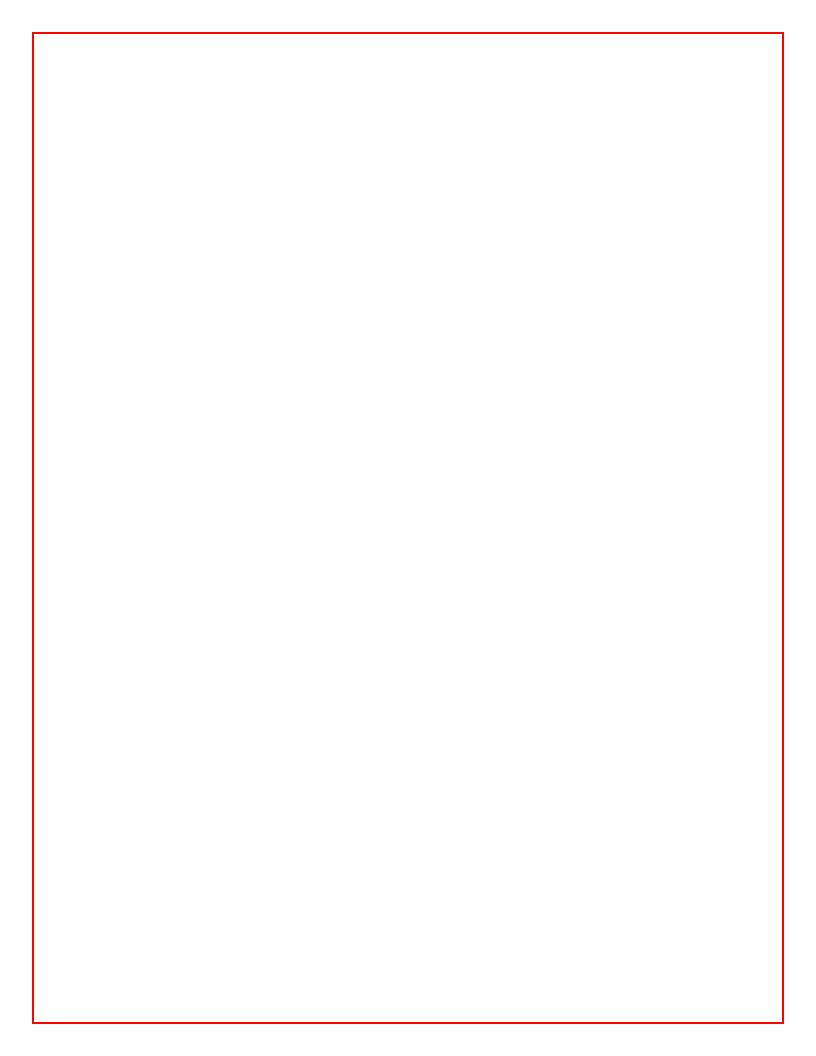
W.E.				Introduction		Manager and the same	
Progra	m: Certificate	Cla	ss: B.Sc.	Year: I	Year	Session: 2021-22	
			Subject: Com	puter Science			
To.	Course Code		S1-COSCZT				
2.	Course Title		Programming Methodologies & Data Structures (Paper Z)				
3.	Course Type (Co Course/Elective/C Elective/ Vocatio	Jeneric	Core Course				
4,	Pre-Requisite (if	any)	To study this course, a student must have had the subject Physics/Maths in 12th class.				
5.	Course Learning Outcomes(CLO)		Develop s with programmers. Learn to fe algorithmers. Learn to fe algorithmers. Use recurse programmers. Will be fai implement algorithmers. Have known delete, sea 7. Possess ab data used. Design protables, Bir 9. Assess eff implements. Implement searching.	ramming using top ficient and well-st apprograms. connulate iterative is for problems. sive techniques, po- ing. miliar with fundan- tation; become acc in both functional wledge of complex irch on these data is fility to choose a di- in computer application of the computer applications are and general se iciency tradeoffs a tations; t and know the app and sorting etc. contributions of Ir	and flow e down des ractured e solutions a sinters and nental data ustomed t I and proce city of basi dructures, ata structures, ata structures, ata structures, are data st surch trees mong diff	harts to solve a problem sign principles. omputer and array processing searching methods in a structures, their to the description of edural styles ic operations like insert, are to suitably model and ructures including bash theaps, graphs etc. ferent data structure	
6,	Credit Value		Theory - 4 Cre	edits		Harting No.	
7.	Total Marks		Max. Marks : 2	5+75	Min. Pa	ssing Marks: 33	
			1		_		



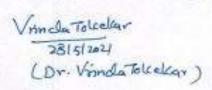


	Contraction .	The second secon	PART A: Introduction		1000	un accessor		
Prog	rum: UG	Class: B.Sc		Year: First Year	Sessi	ion: 2021-23		
		Subje	et: Information Tech	mology				
	. Course Code	3000757	S1-ITEC1T					
2	2. Course Title		Introduction to In	formation Technolo	gy and K	T tools		
3	Course/Electiv	Course Type (Core Course/Elective/Generic Elective/ Vocational		Core Course				
- 4								
Course Learning Outcomes(CLO)			After completing th	is course student will	be able to	0-		
	Outcomes(CLO)		describe various formats to represent different types of data explain basic computer organization and its peripherals make use of word processor, spreadsheet and slide presentation software for effective information usage define various cutting edge technologies used in managing. Information			ipherals ide usage		
6.	Credit Value		4 Credits					
7.	Total Marks	district.	Max. Marks: 25+75	Min. Passin	g Marks	33		
1000	STRUCTURE VA		TB: Content of the C	ourse		12 (61		
Fotal	No. of Lectures-To		(in hours per week): L-					
		Te	tal No. of Lectures: 69 1	Hrs.		III OTTO III		
Unit			Topics	32-31		No. of Lectures (Hours)		
4	Technology (IT) simple model representation o Binary and Hex: ASCII, EBCDIG storage formats Audio and Vides Keywords: Bina	Data and Information Technology: Definition of: Data, Information, Information Technology (IT) and Information Communication Technology (ICT), Types of data, simple model of a computer, data processing using a computer, Internal representation of numeric data: Binary, Hexadecimal, conversion from Decimal to Binary and Hexadecimal and vice-versa, Representation of characters in computers: ASCII, EBCDIC, Unicode, Acquisition of Text, Image, Audio and Video data, storage formats for Text, Images, Audio and Video data, Compression standards for Audio and Video, MPEG standard Keywords: Binary, Hexadecimal, ASCII, EBCDIC, Unicode, MPEG format.						
II	Computers, Data Block diagram of ROM cache men optical disks, Insi	Keywords: Binary, Hexadecimal, ASCII, EBCDIC, Unicode, MPEG format Computers, Data Storage and Peripherals: Types and classification of computers, Block diagram of computer, C.P.U., registers, system bus, main memory unit, RAM, ROM cache memory, Primary, secondary, auxiliary memory, bard disks, pen drive, optical disks, Inside a computer, SMPS, Motherboard, Ports and Interfaces, expansion cards, ribbon cables, memory chips, different processors and clock speed.						





W-	777		A: Introducti	Complete to Advantage of the Control	ALC: N	- www.com
Progra	m: UG	Class; B.Sc.		Year: First Year	Ses	sion: 2021-2
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Subject: : In	formation Tec	hnology	- 10	
1.	Course Code	0.0000000000000000000000000000000000000	SI-ITEC2T	Control of the Contro		
2.	Course Title	120	Problem Sol	ving and Python Pro	grammi	ng
3.		Core Course / ric Elective/ Vocational	Core Course			
4.						
5,		ng Outcomes (CLO)		ting this course studes	nt will be	able to -
			Write simple Python programs using common distructures Use files for data input and output Make use of sequences and standard libraries in programming Apply object Oriented Programming concepts in problem solving Gain knowledge of Python frameworks for web			ories in
6.	Credit Value		4 Credits	34		
7.	Total Marks		Max. Marks:	25+75 Min. Passir	- M6	
Unit		400	of Lectures: 60 opics	Hrs.		No. of Lectures
I	Programming Concepts and Python Basics: Program designing using pseudocode and flowcharts, Basic Python Syntax, Literal Constants, Numbers, Variable and Basic data types, String, Escape Sequences, Operators and Expressions, Evaluation Order, Indentation, Input Output Functions, Comments, Conditional Statements- If, If-else, Nested If-else, Iterative Statement – For, While, Nested Loops, Control statements – Break, Continue, lamda, Sets, Adding, deleting, Processing set elements, Different set operations Keywords: Python, flowchart Strings, Function and File Handling: String Indexing, Slicing, Modify,					(Hours) 12
m	parameters, File arrays, matrix, o Keywords: Pyti	nd, replace, format string to Handling in python, Ro operations on arrays and a hon Strings, Python Func- and Dictionaries: Introd	egular Express natrix tion and Python	ion, Introduction to	numpy,	12
1	List, Finding Its	ems in Lists with the in-	Operator, built	in function, Convince	Liete	

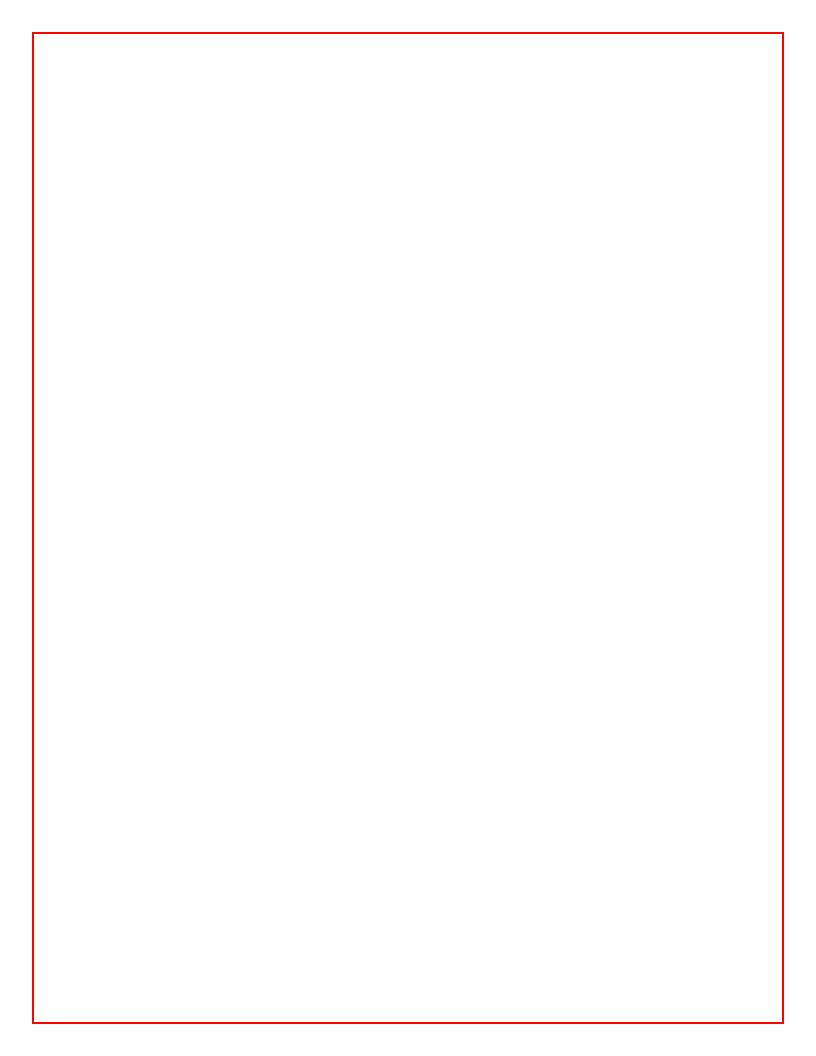


SI-MATH**£**T

		भागल - परिचय		
वतर	र्वक्रमः प्रमाण पत्र	कक्षाः जी एतसी, प्रथम वर्षे	वर्षः 2021	相写: 2021-2022
		विषय: वर्णित		
1	पाठ्यक्रम का क्वेड		SI-MATHIT	
2	पाठपक्रम का शीर्षक	बीजनपित, मदिश	विश्लेषण एवं ज्यार	मेति (प्रश्न पत्र 🏩
3	पाठ्यक्रम का प्रकार		अंदेर सोर्म	
4	पूर्विषय (Prerequisite)	इस कोर्स का अध्ययन करने कथा 12वीं में किया हो।	के लिए, खात्र ने	विश्वय मणित कर अध्ययन
5	पाठ्यक्रम अध्धयन की परिलक्षिया (फोर्स सर्निय आउटकम) (CLO)	पाउरक्रम द्वाचों की मक्षम को 1. आव्यूह की जाति का उ मोधानक रूप द्वारा रेखिक की पहचान करने में। 2. एक वर्ग आव्यूह के लिए जात करने में। 3. सदिश करन के जान को व कृदि करने में।	पयोग करते हुए, समीकरणों की न आइमेन मान औ सामिति में उपयो	मत और असंगत प्रणालियों र संगत आडमेल संदिश की र करने में।
6.	क्रेडिट मान	मेद्धांतिकः ६		
7	कुल अंक	अधिकतम् अंगः 25 + 75	-प्रतसम उनीर्ण	sher: 33

	व्याक्ष्यान की कुल संख्या (प्रति सप्ताह घंटे में): प्रति समाह ३ पं कुल व्याक्यान: ५० घंटे	Ē.
इकाई	विषय	स्याह्यात की सहय
	1.1 वेतिहासिक पृष्ठभूमिः	
	1.1.1 भारतीय गणित का विकास	
	उत्तर विश्वविष्ठित काम (500-1250)	- 2
	1.1.2 बराहमिहिर और आर्थश्रह की संभिन्न जीवनी।	
1	1.2 आव्युह की वाति	15

(Dr. Anil Rappet)



				F1500-1400			
	18. 1	भाग अ - परिचय					
का	कार्यक्रमः प्रमाण पण कक्षाः वी एससी, प्रथम वर्षे वर्षः 2021 सन्नः 2021-						
		विषय: गणित	10				
1	पाठवक्रम का कीव		LINITAM-IS				
2	पाठपक्रम का शीर्षक	, बाताम श्वं अत	क्त समीकरण (प्रथ पत्र 2)			
3	पाठपक्रम का प्रकार		कोर कोमे				
4.	पूर्विका (Prerequisite)	हम कोर्स का अध्ययन करने के निए, छात्र ने विषय गणित का अध्यर कक्षा 12वीं में किया हो।					
5	पाठवकम अध्धयन की परिलक्षियां (कोर्स लर्निय आउटकम) (CLO)	पाड्यक्रम खात्रों को सक्षम करे 1. विभिन्न संदर्भित निर्देशंव करते हुए एक समतन्त्र में ह 2. अनुकृतन, सामाजिक विद्य अवकानज्ञ का उपयोग कर 3. विभिन्न गणितीय प्रतिकर्पा 4. विभिन्न गणितीय प्रतिकर्पा निए तफनीकों कर उपयोग	प्रदेशियों में सा शती को रेखाफित शन, भौतिकी अं के में। के लिए अथकल !को इन करने अं	करने में। रेट जीवन विज्ञान आदि से समीकरण सूचवद्व करते में।			
6	वेदिट मान	Agifite: 6					
7	मुल अंक	अधिकतम अंकः 25 + 75	स्थानसम् अतीर्थ	MW: 33			
	I Committee of the comm		And the second second second	THE PARTY OF THE P			

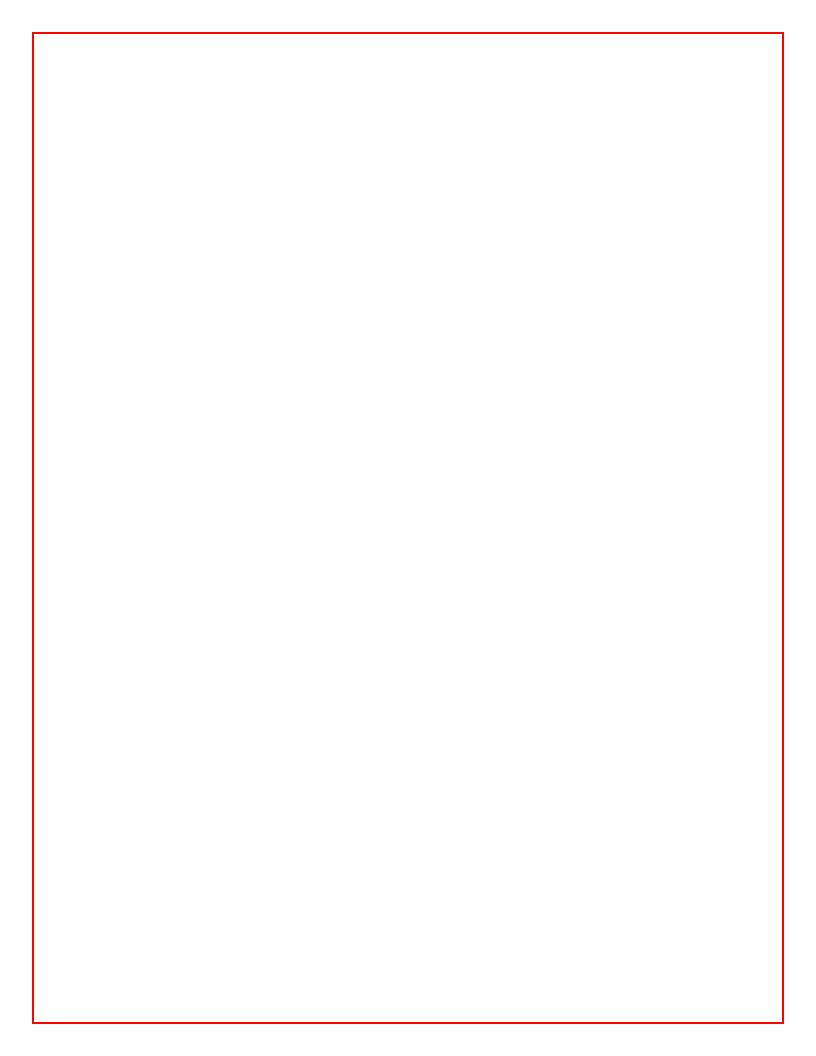
	भाग ब - पाठ्यक्रम की विषयवरुतु व्याख्यान की कुल संख्या (प्रति सप्ताह घंटे में); प्रति सप्ताह 3 घंटे कुल व्याख्यान: 90 घंटे	
इकाई	विश्वय	च्याख्यान की संख्या
9	1.1 ऐतिहासिक पुत्रभूमिः 1.1.1 भारतीय मधित का विज्ञामः प्राचीन और प्रारंभिक चिरप्रतिक्षित काल (500 सीई नक) 1.1.2 भारकराचार्य (सीत्तावती के विशेष संदर्भ में) और माध्य की संक्षित्र श्रीवनी	18

Begger. (Dr. Amil Refer)

Page 2 of 16

		भाग अ - परिचय		
	कार्यक्रम: प्रमाण पत्र	कक्षाः बी.एससी. प्रथम वर्ष	वर्ष: 2021	सत्र: 2021-2022
		विषय: भौतिक विज्ञान		
1.	पाठ्यक्रम का कोड		S1-PHYS1T	(IT)
2.	पाठ्यक्रम का शीर्षव	s ऊष्मागतिकी तथा	सांख्यिकीय भ	ौतिकी (प्रश्न पत्र 1) (1
3.	पाठ्यक्रम का प्रकार :(ग कोर्स/इलेक्टिव/जेनेरि इलेक्टिव/बोकेशनल/	कार क	कोर कोर्स	(13 11 2)(1
4.	पूर्वापेक्षा (Prerequisi (यदि कोई हो)		रने के लिए छा डिए।	त्र के पास 12 वीं कक्षा
5.	पाठ्यक्रम अध्धयन की परिलब्धियां (कोर्स लिन आउटकम) (CLO)	 इस पाठयक्रम भौतिकी तथा इ संबंध सीखने सः छात्रों से यह अं ऊष्मागतिकी नि ऊष्मा कार्य में पं यह पाठ्यक्रम स उष्मागतिकी में : विकसित करेगा। छात्र चिरसंमत 	में विद्यार्थी उ नके ऊर्जा, का तम हो सकेगा। पेक्षा की जाती यमों का उपयो रिवर्तित करते। डिपकी की वि उन्हें लागू करने और क्वांटम पं	ष्मा एवं ताप की मूर्य वितरण एवं पदार्थ वं है कि वे सीखे कि, कैने ग करके ऊष्मा इंजन में है। भिन्न अवधारणाओं औन के तरीकों की समझ भी रिस्थितियों में कणों के गंत्रिकी के अध्ययन का
6.	क्रेडिट मान	महूरव समझगा	4	
7.	कुल प्राप्त अंक	अधिकतम अंक: 25+7	11761	ाम उत्तीर्ण अंक: 33





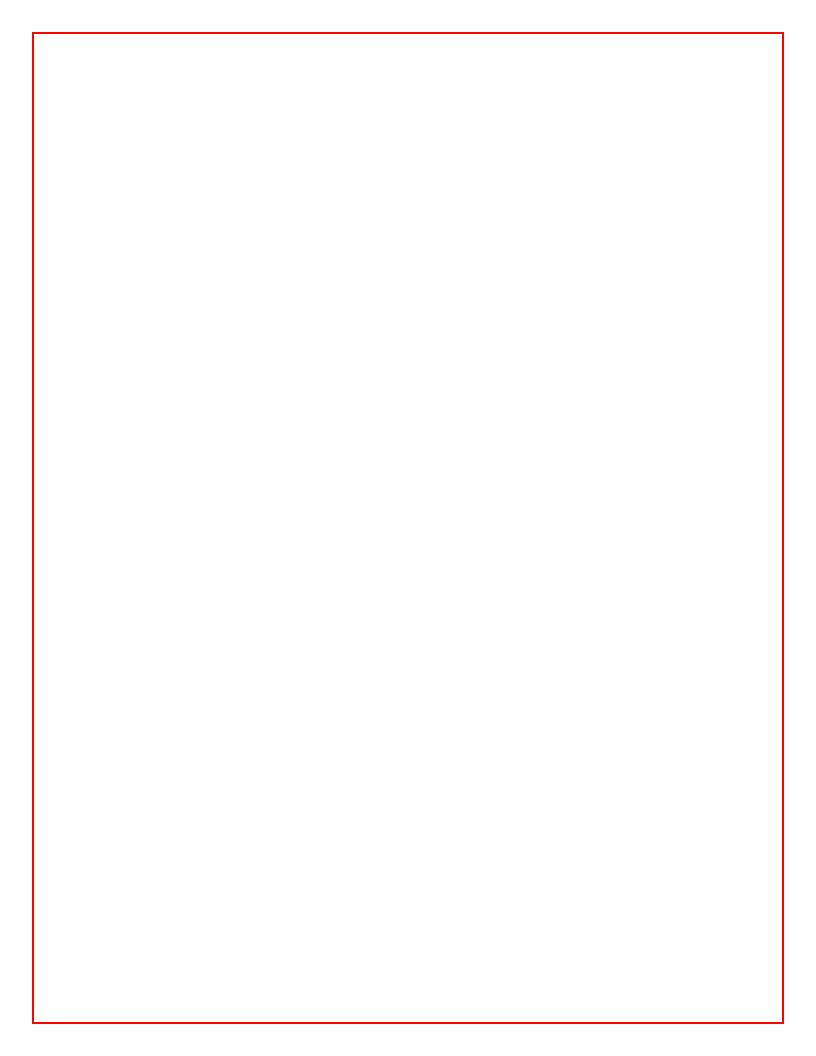
A DIE	District of the Co		भाग अ - परिचंय		THE WAY CO.	
का	र्यक्रम: प्रमाण पत्र	कक्षा	: बी.एससी. प्रथम वर्ष	वर्ष: 2021	सत्र: 2021-2022	
			विषय - भौतिक विज्ञान			
1.	पाठ्यक्रम का को	ड	S1-PHYSD (21)			
2.	पाठ्यक्रम का शी	र्षक	यांत्रिकी और प	दार्थ के साम	ान्य गुण (प्रश्ने पत्र 2) (2)	
 पाठ्यक्रम का प्रकार :(कोर कोर्स/इलेक्टिव/जेनेरिक इलेक्टिव/बोकेशनल/) 		कोर कोर्स				
4.	पूर्विक्षा (Prerequ (यदि कोई हो		इस कोर्स का अध्ययन करने के लिए छात्र के पास 12 वीं में भौतिकी विषय होना चाहिए।			
5.	पाठ्यक्रम अध्यय- परिलब्धियां (कोर्स आउटकम) (CL	लर्निंग	में विचार कर 2. यह दैनिक जें का गति से करेगा। 3. यह छात्रों वें अनुप्रयुक्त क्षे में नींव का कि 4. छात्र भौतिक करने के लिए कर सकेंगे। 5. छात्र ऊर्जा	र विकसित क ोवन में हमारे संबंधित बुनि को बिज्ञान त्र खासकर मै नेर्माण करने क बिज्ञान में एगणितीय त	क निकायों के व्यवहार के बारे उने के लिए सशक्त करेगा। श्वास-पास की सभी वस्तुओं त्यादी अवधारणा को प्रदान और प्रौद्योगिकी के विभिन्न केनिकल इंजीनियरिंग के केश में सक्षमा सहायक होगा। विभिन्न समस्याओं को हर रीकों का बुनियादी ज्ञान प्रार न के बीच संबंध, सापेक्षत उम होंगे।	
6.	क्रेडिट मान	Ê		4	10	
7.	कुल अंक		अधिकतम अंकः	25+75	न्यूनतम उत्तीर्ण अंक: 33	



Syllabus of Paper BA I Year: Generic English (Theory + Tutorial)

			Part A	Introduction				
Prog	rum: Cert	tificate Course	Class': BA	Year: I	Sessi	on: 2021-22		
			Subject:	Generic English				
1	Course	Code	10000		AI-ELITIG.			
2	Course'	l'itle	Comme	micative Englis	h (Paper , T)	neory + Tutorial)		
3	Course Type (Core Course/Elective/Generic Elective/Vocational/			Elective				
4	Pre-requ	uisite (if any)	following	This course can be opted as an elective by the students of following subjects: Class 12th passed in any discipling Open for all				
5 Course Learning Outcomes (CLO)			C.V. V. E.C.V. Contraction	dy of this course wledge of	will enable th	e students to acquire		
			The stu- with ef- them,	Vocabulary and Discourse. The students will be able to converse in real-life situations with effective language skills. The course will also help them, Acquire literary sense, Use idiomatic and lexical language, and				
6	Credit	alue (T+P)	1000	3+1+0-4	OCCUPANT RESIDE	CONTROL CONTRO		
7	Total M			larks 25=75	Min. Pas	sing Marks 33		
			Part B- Con	tent of the Co				
	I No. of La P: 45+15	ectures-Tutorial	s-Practical (in	hours per week	g: 1.5+0.5+00	-02		
Unit	the state of the state of the state of	Topics		No. 0	f Lectures	No of Tutorials		
	•	ts mes	ommunication nat is communic noing, types & i e in the age of izzation	cation*	10	03		

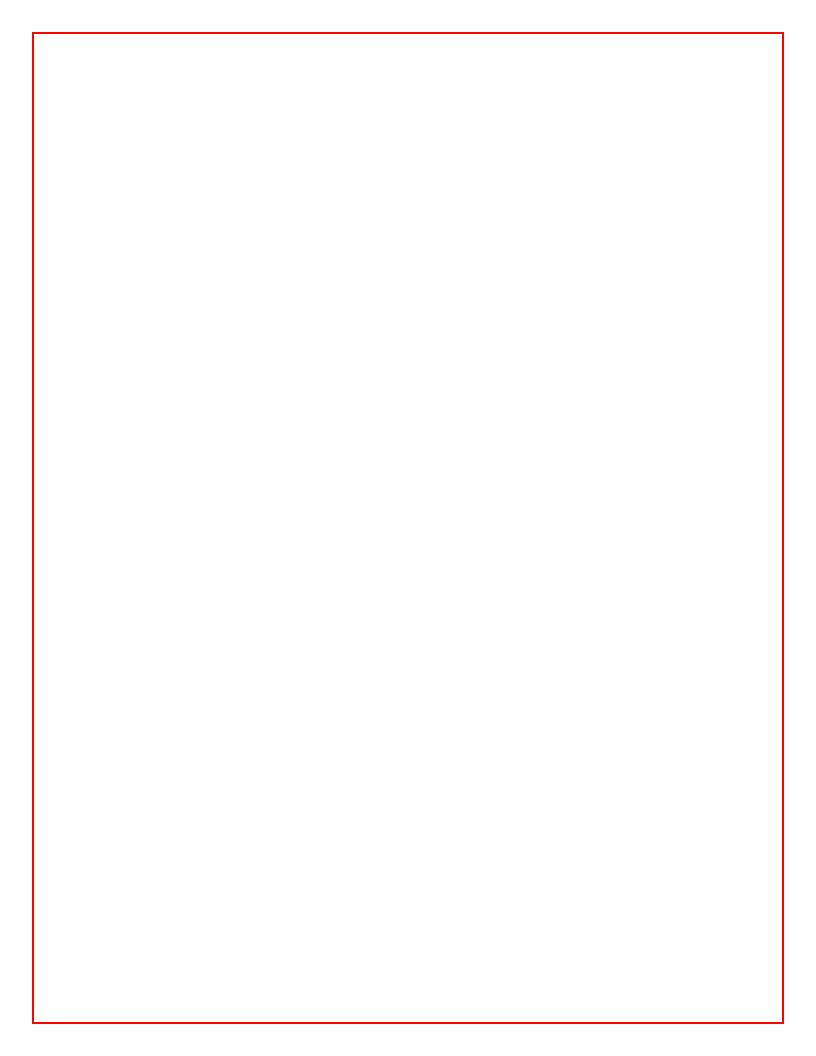
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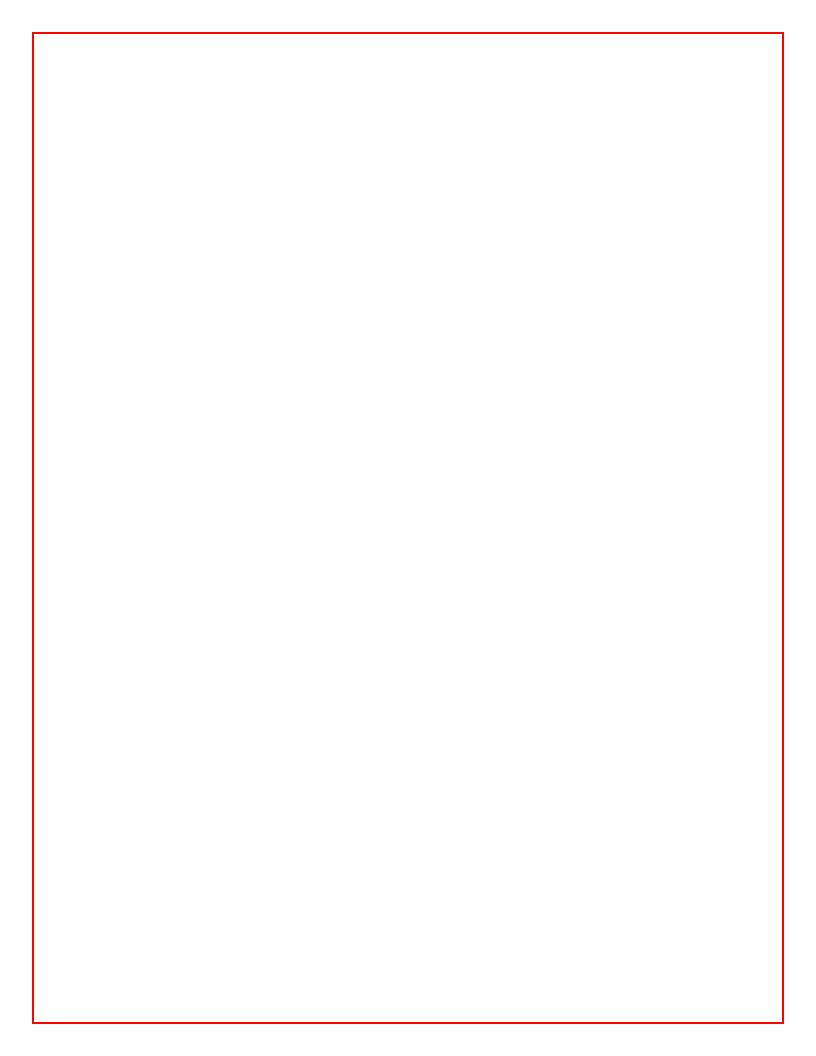
		PAI	RT A: Introduct	ion			
Program:	Certificate	Class: B.Se.	and the second s	car: I Year	Sessio	on: 2021-22	
	Continue to the continue to	Subje	ct: Computer Sci	ence	1 I refrant	WH-5416-220	
d.	Course Code						
2.	Course 110e		Data Analysis & Visualization through spreadsheet				
3.	Course Type (C Course/Elective Elective/ Vocati	Elective 2					
4.0	Pre-Requisite (if any) knowled				nt must have p r and internet.		
5.	Course Learning (CLO)	Outcomes	On completion 1. Prepare a sp 2. Illustrate for 3. Demonstrate 4. Import and a 5. Demonstrate and sharing	readsheet file matting and a basic calcul- export data in basic visual	and enter data editing capabil ations and save to the spreads	a into the sheet lities on the data e data heet	
6.	Credit Value		Theory - 2 Cre	dits			
7.	Total Marks		Max. Marks: 25	+75 N	fin. Passing M	arks: 33	
		PART B	: Content of the	Course			
	No.	of Lectures (in l	COLUMN TO SERVICE SERV		week		
565 none			No. of Lectures: 30		7	en-1933	
Module						No. of Lecture	
	Topics Introduction to Spreadsheet: What is Spreadsheet, History, Importance; Brands and platforms, Excel. Calc, and Google Sheets, User interface, Ribbon, Quick Access toolbar. Basics of Spreadsheet: Overview of spreadsheet, opening new file and saving spreadsheet (through menu and keyboard shortcut), rows, columns, cells, workbooks and worksheets. Fundamentals of rows, columns and cell and navigation, various modes of selecting cells (shift arrow, ctrl shift arrow, mouse click and drag, mouse click and shift click); merging cells; Selecting rows and columns, Non-contiguous cells; How to enter data (numeric, text, date). Autofit, keyboard navigation, Autocomplete, navigating edges, Navigating first and last used cells. Working with multiple sheet, inserting and deleting sheets, renaming sheets. Number formatting - Introduction, General and text, Number and fraction, Currency, Accounting, Percentage, Date, Time; Inserting and deleting rows, columns and cells. Formatting cells - Introduction, Bold, Italics and Underline, Border, Fill and Font, Alignment, Format painter and clear format, Editing the cell content, entering multiple lines of text using Ctrl+Enter, auto fill, copy and paste, cut					6	
II	-13035 HW 0100 CHO	Il series, use of fil eet: Select print a iew.		ENGINE	g margin	6	



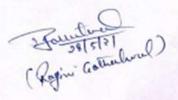
	Part A Is	ntroduction	THE RESERVE OF THE PARTY OF THE
Program: Certificate		Year: First Year	Session: 2021-22
Course Code		V1-COS-WEBT	
Course Title		Web Designing	
Course Type		Vocational	
Pre-requisite (if any)		Open for All	
Course Learning outcomes (CLO)	Code a handful Build semantic Write basic ser Use Names, O Add Interactiv Create Dynam	bjects, and Methods ity to a Web Page ic Web Pages using Java	S examples Script in HTML forms.
Expected Job Role / Career opportunities	Job Role - Web Desig Job Description - W pages, websites, web businesses and govern use knowledge of co websites that meet clier Career Opportunities Typical employers of w Software comps IT consultancie Specialist web of Large corporate Any organisatio Self-employme	per / Front End Develop leb designers develop f applications, online as ment agencies to establi- imputer programming a at needs. The designers are— unies design companies organisations in that uses computer sys- nufreelance work is often	er/ Creative Ad Designer functional and appealing web divertisements for individuals sh their online presence. They and graphic design to create
Credit Value		(4) Theory - 2 Practi	ical – 2



A DESCRIPTION OF THE PARTY OF T	भाग	ए परिचय			
कार्यक्रमः प्रम	ाग पत्र	वर्ष: प्रथम वर्ष	सत्र : 2021 - 22		
पाठपक्रम कमांक		V1-COM-DIGT			
पाट्यक्रम शीर्ष		डिजिटल मार्केटिंग	* -		
पाट्यक्रम का प्रकार		व्यवसायिक			
पूर्व आवश्यकता	सभी संकाय के विद्यायार्थियों के लिए उपलब्ध				
पाठ्यक्रम सीखने के परिणाम (सीएसओ)	 डिजिटल मार्केरि पोर्टल और जेव पेज ऑफ्टिमाइमेशन पेमावुक, दिवटर अनुकूतन जेसे प भूवतान किए व नेबसाइट ट्रैपिल 	पन के बाद, छात्र निम्नलिखित हैं हर, उसका महत्व, केन साइट का अ साइट के नीच अंतर. इसन, ऑफ पेज ऑप्टिमाइवेशन पर) की कार्यप्रमाणी की समस और हैं , लिक्डदन, टम्बलर, पिंटरेस्ट और सम्मन्त्रे (सोशन मीडिया ऑप्टिमा ए ट्रस जैसे Google बिजापन शब्द इ. कीन्ड विश्वेषण और ईमेल मानैरि SEO के लिए उपयोगी ट्रन पर व्या	र्श्व और वेच साहट के स्तर, ज्योंन SEO (सर्च इंजन पोर्ट तैयार करना अन्य सीशल मीडिया सेवाओं के इजेशन) के बारे में ज्ञान , प्रदर्शन विज्ञापन तकनीक हैव और विज्ञापन विज्ञादनिय		
अपेक्षित नौकरी की मूमिका कैरियर के अयसर	डिजिटल मॉर्केटिंग मैनेजर धोज इंजन अनुकूलक सीशल मीडिया मॉर्केटर सामग्री विपणक एआर-वीआर के लिए सामग्री निर्माता आवाज सहाबता के लिए एगईओ विशेषज्ञ				
क्रेडिट मुल्य		4			



			Part A :Introd	ection				
P	rogram: Certificate	Course	Class: B.Sc. I Yea	Year: 2021	Session: 2021-2022			
		1	Subject : Biotech	nology				
1	Course Code	CORE	TH-1-SI-BTE C1 T					
2	Course Title	Cell Bi	ology and Biochemi	stry				
3	Course Type	Core C	ourse					
4	Pre-requisite (If any)	To stud	To study this course, a student must have had the subject Biology in 12th class.					
	outcomes (CLO)	basic fo workford Industry Interdisc The res Biologica aims to the stude Learnin	sundation for studying ce in Biotechnology is Sector. Academic ciplinary trained manportructured syllabus contained sciences in light of a simpart basic knowledgents ready for industries of Court of the Court of Court of the Court of Cou	Biotechnology. The ever growing in Furand Research over to foster the Bimbines basic principal dvancements in technology and research work and of the paper, a street biology. Ince of bonding and stability and st	iotechnology Revolution. ciples of Chemical and thnology. The curriculum its applications to make in concerned field. cudent should be able to:			
		4.	biomolecules The Student Could Po decrease of increase in have clinical significan	ursue a career in b the amount of some ce. for medical Labora	piochemical testing. The of the biomolecules can story Technique Courses.			
6	Credit Value	Theory -	-4					
7	Total Marks	Max. Ma	arks: 25+75	Min. Passing Ma	rks : 33			



_			Total			75
-			Part A :Intro	duc	tion	
P	rogram: Certificate	Course	Class: B.Sc. I Y	ear	Year: 2021	Session: 2021-2022
			Subject : Biote		logy	
1	Course Code	COR	E- PR-1-SI-BTE (1 P		
2	Course Title	Labw	ork for Cell Biolog	y and	Biochemistry	
3	Course Type		Course			
4	Pre-requisite (If any)	To stu 12 th cl	To study this course, a student must have had the subject Biology in 12th class.			
5	Course Learning outcomes (CLO)	hands- workfe Industrial Revolu- empha researce Learni 1. Un 2. Kn 3. Pui am 4. Tal	on practical knowled bree in Biotechnology y Sector. Acades sciplinary trained ution. The curricu- sis on its application the work in concerned- ing Outcome: At the derstand basic technow the physical as we raue a career in bioclount of some of the	ge in y is evenic man lum s to n field ne enciques ell as nemic piomo y Tec	Biotechnology. Ver growing in Fu and Research power to fost aims to impart make the students of of the paper, a stof cell biology. Chemical propertal testing. The deplecules can have chique Courses,	course will be to give The Demand For Trained andamental Research and Sectors also Require er the Biotechnology basic knowledge with ready for industries and student will be able to : ties of biomolecules ecrease of increase in the clinical significance, opening opportunities in
7	Credit Value	Practic				
	Total Marks		Jarks: 25+75		Min. Passing Ma	

Part B : Content of the	Practical Course
Total numbers of Lectures (in hours p	per week): 2 hours per week
Credits – 2 (Practica	il: 30 hours)
Scheme of Practical Examination: -	Max. Marks (25 + 75 = 100)
(A) Internal Assessment. :-	Max. Marks- 25
1. Class Interaction.	05
2. Quiz.	
3. Seminar.	05 07
 Assignments (Charts, Rural Service, Technology Dissemi 	nation/Excursion/ Lab Visit/Industrial Training. 08
(B) External Assessment:-	
Major experiment	Max. Marks- 75
2. Minor Experiment -1	15
Minor experiment-2	10
4. Spotting.	10
5. Viva - Voce	15
6. Practical Record.	15
List of Experiments/Exercise.	10
 To study the plant cell structure using various pl 	ant materials
To study the animal cell structure using cheek cells.	ant materials.
To Prepare Onion root tip for the stages of Mito	riis.
To Prepare and study the different stages of Mito	SIS.
To analyze Carbohydrates Quantitatively	osis and iviciosis,
6. To analyze proteins Quantitatively	
7. To analyze lipids Quantitatively	

(Pagini (estudual)

_			Total			75
-			Part A :Intro	duc	tion	
P	rogram: Certificate	Course	Class: B.Sc. I Y	ear	Year: 2021	Session: 2021-2022
			Subject : Biote		logy	
1	Course Code	COR	E- PR-1-SI-BTE (1 P		
2	Course Title	Labw	ork for Cell Biolog	y and	Biochemistry	
3	Course Type		Course			
4	Pre-requisite (If any)	To stu 12 th cl	To study this course, a student must have had the subject Biology in 12th class.			
5	Course Learning outcomes (CLO)	hands- workfe Industrial Revolu- empha researce Learni 1. Un 2. Kn 3. Pui am 4. Tal	on practical knowled bree in Biotechnology y Sector. Acades sciplinary trained ution. The curricu- sis on its application the work in concerned- ing Outcome: At the derstand basic technow the physical as we raue a career in bioclount of some of the	ge in y is evenic man lum s to n field ne enciques ell as nemic piomo y Tec	Biotechnology. Ver growing in Fu and Research power to fost aims to impart make the students of of the paper, a stof cell biology. Chemical propertal testing. The deplecules can have chique Courses,	course will be to give The Demand For Trained andamental Research and Sectors also Require er the Biotechnology basic knowledge with ready for industries and student will be able to : ties of biomolecules ecrease of increase in the clinical significance, opening opportunities in
7	Credit Value	Practic				
	Total Marks		Jarks: 25+75		Min. Passing Ma	

Part B : Content of the	Practical Course
Total numbers of Lectures (in hours p	per week): 2 hours per week
Credits – 2 (Practica	il: 30 hours)
Scheme of Practical Examination: -	Max. Marks (25 + 75 = 100)
(A) Internal Assessment. :-	Max. Marks- 25
1. Class Interaction.	05
2. Quiz.	
3. Seminar.	05 07
 Assignments (Charts, Rural Service, Technology Dissemi 	nation/Excursion/ Lab Visit/Industrial Training. 08
(B) External Assessment:-	
Major experiment	Max. Marks- 75
2. Minor Experiment -1	15
Minor experiment-2	10
4. Spotting.	10
5. Viva - Voce	15
6. Practical Record.	15
List of Experiments/Exercise.	10
 To study the plant cell structure using various pl 	ant materials
To study the animal cell structure using cheek cell	ant materials.
To Prepare Onion root tip for the stages of Mito	riis.
To Prepare and study the different stages of Mito	SIS.
To analyze Carbohydrates Quantitatively	osis and iviciosis,
6. To analyze proteins Quantitatively	
7. To analyze lipids Quantitatively	

(Pagini (estudual)

			Part A Introd	uction	
	ogram: rtificate	Class: B.Sc.	Year: I	Session: 2021-22	
		Sub	ject: Biotechno	logy	
1	Course Code	CORE-T	H-2 SI BTEC 2	T	
2	Course Title		Microbiole	ogy and Immunology	
3	Course Type		(Core Course	
4	Prerequisite	To study th Biology in	nis course a stud class 12 th .	ent must have had the subject	
5 Course Learning Outcomes		microbiolo 1. The stude and Nutriti 2. The stude Immune resistant and Nutriti 2. The stude Immune resistant and Nutriti 3. The stude in both mail 4. The stude techniques. Course Les will famili 1. Microbi 2. Immune 3. Immunos the concept diseases.	gy and immuno ents will be able on. lents will be able sponses and Vac ents will be able intaining health ents will be able arning Outcom ar with - al diversity and system, its prop globulin structur of hypersensitiv	to understand microbial diversity to understand immune system, ccination. to describe role of immune system and contributing to disease. to understand immunological es: At the end of the course student	
5	Credit Value		4		
7	Total Marks	Max.Marks	25+75	Min. Marks 33	



			Part A Introd	uction	
	ogram: rtificate	Class: B.Sc.	Year: I	Session: 2021-22	
		Sub	ject: Biotechno	logy	
1	Course Code	CORE-T	H-2 SI BTEC 2	T	
2	Course Title		Microbiole	ogy and Immunology	
3	Course Type		(Core Course	
4	Prerequisite	To study th Biology in	nis course a stud class 12 th .	ent must have had the subject	
5 Course Learning Outcomes		microbiolo 1. The stude and Nutriti 2. The stude Immune resistant and Nutriti 2. The stude Immune resistant and Nutriti 3. The stude in both mail 4. The stude techniques. Course Les will famili 1. Microbi 2. Immune 3. Immunos the concept diseases.	gy and immuno ents will be able on. lents will be able sponses and Vac ents will be able intaining health ents will be able arning Outcom ar with - al diversity and system, its prop globulin structur of hypersensitiv	to understand microbial diversity to understand immune system, ccination. to describe role of immune system and contributing to disease. to understand immunological es: At the end of the course student	
5	Credit Value		4		
7	Total Marks	Max.Marks	25+75	Min. Marks 33	



			Part A -	Introduction			
Pro	Program : Diploma Course Class: B.Sc. Year: Second Year Session :2022-23						
			Subject:	Biotechnology			
1.	Course Code	S2-BTEC	CIT				
2.	Course Title	Basic Mo	Basic Molecular Biology				
3.	Course Type	Major- 1	Major- 1 Core Course				
4.	Pre- requisites	To study certificat		dent must have the sub	ject Biotechnology in		
5.	Course Learning outcomes	2. They mutat mutat 3. Stude	gnalling. will be able to und ion and role of va- ion.	derstand mechanism of g rious repair system in ne explain mechanism of D	protein/ enzymes involved in enetic damage caused by glecting the effect of these DNA replication, transcription,		
6.	Credit Value	Theory-	4				
7.	Total Marks	Max. Ma	rks-30+70		Min Marks: 33		

Program: Class : B.Sc. Diploma Course			Year: Second	Session: 2022-23			
			Subject: Biotechnology				
1	Course Code	- S2-BTE C	C2 T				
2	Course Title	Recombina	nt DNA Technology				
3	Course Type	Major-2 / N	Minor/ Elective- Core Cour	se			
4	Pre-requisites (if any)		To study this course a student must have the subject Biotechnology in certificate course.				
5 Course Learning outcomes (CLO) la			roaches to conduct genetic en ogical research as well as in be etic engineering is a technological fundamental understanding of this is reflected in the conten- ten the impact of genetic engineers should be endowed with mology.	ogy that has been developed based on if the principles of molecular biology its of this course. Intering in modern society, the is strong theoretical knowledge of this is in molecular biology and genetic			
6	Credit Value	Theory- 4					
7	Total Marks	Max. Mark	cs-30+70	Min Marks : 33			

	Part A Introduction	
rogram Diploma Cour	se Second year	Session: 2022-23
Course Code	V2- CLN-NUTT	
Course Title	Management of Nutrition in	life cycle
Course Type	Vocational	
Pre-requisite (if any)	Certificate course	
Course Learning outcomes (CLO)	Plan diets for early childhood Plan diets for school going childhood Plan diets for adolescent Plan diets for adults Plan diet for pregnancy and Plan a diet for old age.	l. hildren
Expected Job Role / career opportunities	Community dietician Nutritionist in NGOs Freelancing Anganwadi / Balwadi	
Credit Value	2 (Theory) +2 (Practical	1) = 04
THE CONTRACTOR	Part B- Content of the Course	
Total No. of Lectures + P	ractical (in hours per week): L-1 Hr / P-1 Lab Hr (=2 H No. of Lectures/ Practical: L-30 /P-30 (60 Hrs)	Hrs)
Module	Topics	No. of lectures (Total 30

Module	Topics	No. of lectures (Total 30)
I	Dietary Management for different age group 1. Dietary Management 1.1 Introduction to Dietary management 1.2 Factors affecting dietary management 1.3 Recommended Dietary Allowances (RDA) 1.4 Translating RDA into daily food intake 2. Food and our body	6

Aham 9 Dr Aparna Sharwa Chairperson CBOS Nutrition & Dietelies

		Part A Introduction	10.1			
rogram D	iploma Cour	seSecond year	Session: 2022-23			
ourse Coo	lo.	V2- CLN-NUTT				
ourse Tit	le	Management of Nutrition in life cycle				
Course Ty	pe	Vocational				
re-requis	ite (if any)	Certificate cours	e			
Course Learning outcomes (CLO)		After completion of course, students will be able to Plan diets for early childhood. Plan diets for school going children Plan diets for adolescent Plan diets for adults Plan a diet for pregnancy and lactation. Plan a diet for old age.				
Expected Job Role / career opportunities		Community dietician Nutritionist in NGOs Freelancing Anganwadi / Balwadi				
Credit V	alue	2 (Theory) +2 (Practic	al) = 04			
		Part B- Content of the Course				
Total No.	of Lectures + P Total	ractical (in hours per week): L-1 Hr / P-1 Lab Hr (=2 No. of Lectures/ Practical: L-30 /P-30 (60 Hrs)	Hrs)			
Module		Topics	No. of lectures (Total 30			
1	1. Dietary 1.1 Introdu 1.2 Factors 1.3 Recom 1.4 Transla	Management for different age group Management ction to Dietary management affecting dietary management mended Dietary Allowances (RDA) ating RDA into daily food intake ad our body	6			

Dr Aparna Shawa Chairperson CBOS Nutrition & Dietelies

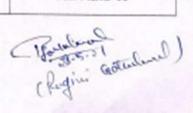
		Part A Intr	oduction			
rogram Di	iploma Cour	se	- Second year	Session: 2022-23		
			Cruis Control			
ourse Cod	le		V2- CLN-NUTT			
Course Title Course Type Pre-requisite (if any) Course Learning outcomes (CLO) Expected Job Role / career opportunities		Management of Nutrition in life cycle				
			Vocational			
			Certificate course			
		After completion of course, students will be able to Plan diets for early childhood. Plan diets for school going children Plan diets for adolescent Plan diets for adults Plan a diet for pregnancy and lactation. Plan a diet for old age. Community dietician Nutritionist in NGOs Freelancing Anganwadi / Balwadi				
					Credit Va	alue
			it of the Course			
Total No.	of Lectures + P Total	ractical (in hours per week): L-1 No. of Lectures/ Practical: L-3	Hr / P-1 Lab Hr (=2 Hr 0 /P-30 (60 Hrs)	3)		
Module		Тор	ics	No. of lectures (Total 30		
1	1. Dietary 1.1 Introdu 1.2 Factors 1.3 Recom 1.4 Transl	Management for diffinancement action to Dietary management affecting dietary managemended Dietary Allowan ating RDA into daily food and our body	ment ement aces (RDA)	6		

Dr Aparna Shawe Chairperson CBOS Nutrition of Dietelies

			Part A Introduction		
Program: Cl Diploma Course		Class : B.Sc.	Year: Second Session: 2022-23		
			Subject: Biotechnology		
1	Course Cod	rse Code S2-BTEC2P			
2	Course Title	e Lab work	Lab work for Recombinant DNA Technology		
3	Course Typ	e Major-2/	Major-2 / Minor/ Elective -Core Course		
4 Pre-requisites To study this course a student must have the subject Biotechnological (if any) certificate course.			ave the subject Biotechnology in		
4 Pre-requisites (if any) 5 Course Learning outcomes (CLO)		approbiol 2. Genour and 3. Givestude tech 4. In ceng	To study this course a student must have the subject Biotechnology in certificate course. 1. The objectives of this course are to teach students with various approaches to conduct genetic engineering and their applications in biological research as well as in biotechnology industries. 2. Genetic engineering is a technology that has been developed based on our fundamental understanding of the principles of molecular biology and this is reflected in the contents of this course. 3. Given the impact of genetic engineering in modern society, the students should be endowed with strong theoretical knowledge of this technology. 4. In conjunction with the practicals in molecular biology and genetic engineering, the students should be able to take up biological research as well as placement in the relevant biotech industry		
6	Credit Valu	ie 2			
7	Total Mark	s Max. Mari	ks-30+70	Min Passing Marks: 33	

			Part A Introduction		
Program: Cl Diploma Course		Class : B.Sc.	Year: Second Session: 2022-23		
			Subject: Biotechnology		
1	Course Cod	rse Code S2-BTEC2P			
2	Course Title	e Lab work	Lab work for Recombinant DNA Technology		
3	Course Typ	e Major-2/	Major-2 / Minor/ Elective -Core Course		
4 Pre-requisites To study this course a student must have the subject Biotechnological (if any) certificate course.			ave the subject Biotechnology in		
4 Pre-requisites (if any) 5 Course Learning outcomes (CLO)		approbiol 2. Genour and 3. Givestude tech 4. In ceng	To study this course a student must have the subject Biotechnology in certificate course. 1. The objectives of this course are to teach students with various approaches to conduct genetic engineering and their applications in biological research as well as in biotechnology industries. 2. Genetic engineering is a technology that has been developed based on our fundamental understanding of the principles of molecular biology and this is reflected in the contents of this course. 3. Given the impact of genetic engineering in modern society, the students should be endowed with strong theoretical knowledge of this technology. 4. In conjunction with the practicals in molecular biology and genetic engineering, the students should be able to take up biological research as well as placement in the relevant biotech industry		
6	Credit Valu	ie 2			
7	Total Mark	s Max. Mari	ks-30+70	Min Passing Marks: 33	

		Part A Intro	duction		
Progr	ram: Certificate	Class: B.Sc.	Year: I	Session: 2021-22	
		Subject: Biotec	chnology		
1	Course Code	CORE-PR-2-SI-BTEC 2P			
2	Course Title	Lab on M	licrobiology and In	nmunology	
3	Course Type	Core Course			
4	Prerequisite	To study this course a student must have had the subject Biology in class 12 th .			
5	Course Learning Outcomes	Course Objective: The objective of the course is to prepare students competent in subject through in-depth lecture and laboratory practices- 1 The students will be able to identify microbes using modern techniques. 2 The students will acquire skill and competence in microbiological and immunological laboratory practices applicable to microbiological research or clinical methods of immunology, including accurately reporting observations and analysis. Course Learning Outcomes: On completion of this course, learners will be able to have sufficient scientific understanding of microbiology and immunology- 1 Students apply concept, Principle and types of sterilization methods viz performing microbiological experiments. 2 Students apply the concept and characteristics of antiseptic, disinfected and their mode of action in day to day life. 3 Students will apply principle, working and applications of instruments – Laminar airflow, Autoclave, Hot air oven etc			
6	Credit Value		2		
7	Total Marks	Max Mark 25+75 Min Marks 33			



		Part A Intro	duction		
Progr	ram: Certificate	Class: B.Sc.	Year: I	Session: 2021-22	
		Subject: Biotec	chnology		
1	Course Code	CORE-PR-2-SI-BTEC 2P			
2	Course Title	Lab on M	licrobiology and In	nmunology	
3	Course Type	Core Course			
4	Prerequisite	To study this course a student must have had the subject Biology in class 12 th .			
5	Course Learning Outcomes	Course Objective: The objective of the course is to prepare students competent in subject through in-depth lecture and laboratory practices- 1 The students will be able to identify microbes using modern techniques. 2 The students will acquire skill and competence in microbiological and immunological laboratory practices applicable to microbiological research or clinical methods of immunology, including accurately reporting observations and analysis. Course Learning Outcomes: On completion of this course, learners will be able to have sufficient scientific understanding of microbiology and immunology- 1 Students apply concept, Principle and types of sterilization methods viz performing microbiological experiments. 2 Students apply the concept and characteristics of antiseptic, disinfected and their mode of action in day to day life. 3 Students will apply principle, working and applications of instruments – Laminar airflow, Autoclave, Hot air oven etc			
6	Credit Value		2		
7	Total Marks	Max Mark 25+75 Min Marks 33			

