

संदर्भ : जा.क्र./शिवाजी वि./अ.मं./ ४२०

दि. २५/०७/२०२४

प्रति,

मा. प्राचार्य/संचालक,  
सर्व संलग्नित महाविद्यालये/मान्यताप्राप्त संस्था,  
शिवाजी विद्यापीठ, कोल्हापूर

विषय : बी.कॉम. (आय.टी.), भाग १ सेमिस्टर १ व २ (NEP 2.0) कोर्सच्या अभ्यासक्रम बाबत.

संदर्भ : या कार्यालयाचे पत्र एसयु/बीओएस/कॉमर्स अँड मॅनेजमेंट/२१३  
दि.१०/०४/२०२४.

महोदय,

उपरोक्त संदर्भित विषयास अनुसरून आपणास आदेशान्वये कळविण्यात येते की, राष्ट्रीय शैक्षणिक धोरण, २०२० (NEP 2.0) नुसार शैक्षणिक वर्ष २०२४-२५ पासून लागू करण्यात आलेल्या बी.कॉम. (आय.टी.), भाग १ सेमिस्टर १ व २ कोर्सच्या अभ्यासक्रमामध्ये किरकोळ दुरुस्ती करण्यात आलेली आहे. सोबत सदर अभ्यासक्रमाची प्रत जोडली आहे. तसेच विद्यापीठाच्या [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus) या संकेतस्थळावर ठेवण्यात आला आहे.

सदर अभ्यासक्रम सर्व संबंधित विद्यार्थी व शिक्षकांच्या निदर्शनास आणून द्यावा ही विनंती.

कळावे,

आपला विश्वासू

डॉ. स. मो. कुबल  
उपकुलसचिव

प्रत :

१. मा. अधिष्ठाता, वाणिज्य व व्यवस्थापन विद्याशाखा
२. मा. अध्यक्ष, सर्व अभ्यास मंडळे, वाणिज्य व व्यवस्थापन विद्याशाखा
३. मा. संचालक, परीक्षा व मूल्यमापन मंडळ कार्यालयास.
४. मा. संचालक, दूरस्थ व ऑनलाईन शिक्षण केंद्र.
५. परीक्षक नियुक्ती ए व बी विभागास.
६. बी.कॉम. परीक्षा विभागास.
७. संगणक केंद्र/आय. टी. सेल विभागास.
८. नॅक विभागास
९. पी.जी. सेमिनार विभागास
१०. पात्रता विभागास
११. संलग्नता टी १ व टी २ विभागास

माहितीसाठी व पुढील योग्य त्या कार्यवाहीसाठी



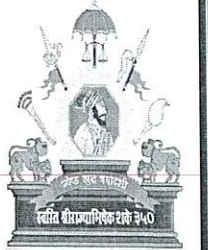
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**SHIVAJI UNIVERSITY, KOLHAPUR - 416004,  
MAHARASHTRA**

PHONE:EPABX-2609000, www.unishivaji.ac.in, bos@unishivaji.ac.in

**शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४, महाराष्ट्र**

दूरध्वनी-ईपीएबीएक्स -२६०९०००, अभ्यासमंडळे विभाग दूरध्वनी ०२३१-२६०९०९४



Ref./SU/BOS/Com & Mgt./ 213

Date : 10/04/2024

To,

The Principal  
All Affiliated (Commerce & Management) Colleges/ Institutions,  
Shivaji University, Kolhapur

**Subject : Regarding syllabi of B. Com. Part-I (CBCS) Information Technology (IT)  
(Sem. I & II) degree programme under the Faculty of Commerce &  
Management as per National Education Policy, 2020**

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that the University authorities have accepted and granted approval to the revised syllabi of **B. Com. Part-I Information Technology (IT) (Sem. I & II) (CBCS)** under the Faculty of Commerce & Management as per National Education Policy, 2020

This syllabi shall be implemented from the academic year **2024-2025** onwards. A soft copy containing the syllabus is attached herewith and it is also available on university website [www.unishivaji.ac.in](http://www.unishivaji.ac.in) (Online Syllabus).

You are therefore, requested to bring this to the notice of all Students and Teachers concerned.

Thanking you,

Yours faithfully,

(Dr. S. M. Kubal)  
Dy. Registrar

**Encl : As above**

**Copy to,**

1. Dean, Faculty of Commerce & Management
2. Chairman, BOS under Faculty of  
Commerce & Management
3. Director, BOEE
4. Appointment Section
5. P. G. Admission Section
6. B. Com. Section
7. Affiliation Section (U.G./P.G.)
8. Computer Center/I.T.
9. Eligibility Section
10. Distance Education
11. P.G. Seminar Section

for information

for information and necessary action.

# **SHIVAJI UNIVERSITY, KOLHAPUR.**



Estd. 1962

NAAC "A++" Grade

**Faculty of Commerce and Management**

Syllabus For

**B. Com. Part I (CBCS)**

**Information Technology (IT) (Sem I & II)**

**Syllabus as per National Education Policy (NEP) 2020  
(To be implemented from June 2024 Onwards)**

(Subject to the modifications that will be made from time to time)

## Faculty of Commerce and Management

**Structure: Four Year Multidisciplinary Under Graduate B. Com. IT Degree Programme (Honors and Research)**

### Credit Distribution Structure with Multiple Entry and Exit Options

Year and Level	Semester	Major		Minor DSM	OE (There are Two Baskets of GE)	VSC, SEC, VSEC	AEC, VEC, IKS	OJT, FP, CEP, CC, RP	Cumulative Credit Per Semester	Degree Per Cumulative Credit
		Mandatory <b>DSC</b>	Elective <b>DSE</b> <i>(Choose any one from Pool of Courses)</i>	<i>(Choose any One from pool of courses from same Discipline)</i>	<i>(Select One course from each Basket of other Disciplines or Faculty)</i>	<i>(Choose any One from pool of Major)</i>				
1 4.5	I	DSC1(2) Programming in C Part-I DSC2:(2) Fundamentals of Information Technology DSC3(2) Lab on DSC1 & VSC1	--	--	OE1: (2) Micro Economics/ Marathi/ Hindi/ OE2: (2) Mathematics/ Statistics	VSC1: (2) Office Automation-I SEC1: (2) Computer Assembly and Troubleshooting Part- I	AEC1: (2) English for Business Communication P-I VEC1: (2) (Democracy, Good Governance IKS1(2)Ancient Indian Management:	CC 1: (2) (NSS/NCC/Sports/Culture/Health Wellness/Fitness/Yoga./Etc.	22	UG Certificate 44
	II	DSC4(2) Programming in C Part-II DSC5:(2) Operating System DSC6:(2) Lab on DSC4 & VSC2	--	DSM1:(2) Insurance	OE3: (2) Macro Economics/ Marathi/ Hindi OE4: (2) Mathematics/ Statistics	VSC2: (2) Office Automation-II SEC2: (2) Computer Assembly and Troubleshooting Part- II	AEC 2: (2) English for Business communication P-II VEC2: (2) (Env. Studies)	CC 2: (2) (NSS/NCC/Sports/Culture/Health Wellness/Fitness/Yoga Edu./Etc.	22	
	Cum. Cr	12	--	2	8	4 + 4 = 8	6+4 = 10	4	44	
Exit Option : Award of UG Certificate in Major with 44 credits and an additional 4 credits core NSQF course/Internship or Continue with Major and Minor										

2 5.0	III	DSC7: (2)Programmi ng with C++ DSC8: (4) Accounting with Tally DSC9:(2) Lab on DSC7	--	DSM2: (4) Fundamental of Entrepreneur ship	OE5: (2) Statistics P-I/ Rural Development P-I / Agricultural Economics P-I	VSC3: (2) Web Technolog y-I	AEC3: (2) Communica tion and Soft Skills P-I	FP1: (2) Field Project CC3: (2) (NSS/NCC/Sports/ Culture/Health Wellness/Fitness/Y oga Edu./Etc.	22	UG Diploma 88
	IV	DSC10: (2) DBMS DSC11: (4) Computer Networking DSC12:(2) Lab on DSC10	--	DSM3: (4) Money and financial system	OE6: (2) Statistics P-II/ Rural Development P-II /Agricultural Economics P- II	SEC3: (2) Web Technolog y-II	AEC4: (2) Communica tion and Soft Skills P-II	CEP1: (2) Community Engagement Project CC4: (2) (NSS/NCC/Sports/ Culture/Health Wellness/Fitness/Y oga./Etc.	22	
	Cum. Cr	28	--	10	12	12	14	12	88	
Exit Option : Award of UG Diploma in Major with 88 credits and an additional 4 credits core NSQF course/Internship or Continue with Major and Minor										
3 5.5	V	DSC13: (2) RDBMS DSC14: (4) System Analysis and Design DSC15:(2) Lab on DSC16 (2) Lab on DSC13	DSE1: (4) 1. Block Chain Technology 2.Web Application Security 4.Network Security	DSM4:(4) Co- operative Developmen t DSM5: (2) Income tax	--	VSC4: (2) Web Technolog y-III	--	FP2/CEP2: (2) Field Project	22	UG Degree 132
	VI	DSC17: (4) Java Programming DSC18: (2) Foundations of Linux DSC19: (2) Lab on DSC17	DSE2: (4) 1. Data Centre Management 2. Data Warehousing 3. Design Thinking and Innovation	DSM6: (4) Business Law	--	--	--	OJT1: (4) On Job Training	22	

	Cum. Cr	46	8	20	12	14	14	18	132	
Exit Option : Award of UG Diploma in Major with 132 credits or Continue with Major and Minor										
4 6.0	VII	DSC20: (4) Web Technology using PHP DSC21: (4) Software Engineering and Project Management DSC22: (4) Emerging Trends in Information Technology DSC23: (2) Lab Work on DSC20	DSE3: (4) DSE1: Information Technology for Management (4) DSE2: Management Information System (4) DSE1: Strategic IT Management (4)	RM1: Research Methodology (4)	--	--	--	--	22	UG Honors Degree 176
	VIII	DSC24: (4) Introduction to Python Programming (4) DSC25: (4) Emerging trends in Web Technology(4) DSC26: (2) Lab Work based on DSC27 (2) Lab Work on DSC24	DSE4.1 Digital Marketing (4) DSE4.2: Financial Technologies (4) DSE4.3: Enterprise Resource Planning (4)	--	--	-	--	OJT2: (4) On Job Training	22	
	Cum. Cr	74	16	24	12	14	14	22	176	
Four Year UG Honours Degree in Major and Minor with 176 Credits										
4	VII	DSC20: (4) Web Technology	DSE3: (4) DSE1: Information Technology	RM 1: (4) Research Methodology	--	--	--	RP1: (4) Research Project	22	UG Honors with

6.0		using PHP DSC21: (4) Software Engineering and Project Management DSC22: (4) Emerging Trends in Information Technology DSC23: (2) Lab Work on DSC20	for Management (4) DSE2: Management Information System (4) DSE1: Strategic IT Management (4)							Research Degree 176
	VIII	DSC24: (4) Introduction to Python Programming (4) DSC25: (4) Emerging trends in Web Technology(4) DSC26: (2) Lab Work based on DSC27 (2) Lab Work on DSC24	DSE4.1 Digital Marketing (4) DSE4.2: Financial Technologies (4) DSE4.3: Enterprise Resource Planning (4)	--	--	-	--	RP2: (8) Research Project	22	
	Cum. Cr	74	16	24	12	14	14	22	176	
Four Year UG Honours with Research Degree in Major and Minor with 176 Credits										

**Abbreviations:**

*DEC - Discipline Specific Core (Major).DSE - Discipline Specific Elective (Major).DSM - Discipline Specific Minor (Minor). GE/OE- Generic/Other Elective. VSC- Vocational Skill Course.SEC - Skill Enhancement Course.VSEC - Vocational Skill and Skill Enhancement Course.AEC - Ability Enhancement Course.MIL - Modern Indian Languages.ISK - Indian Knowledge System.VEC- Value Education Course.CEP - Community Engagement and Service.CC - Co-Curricular Course.FP - Field Project.OJT - On the Job Training (Internship/Apprenticeship).RP- Research Project/Dissertation.RM - Research Methodology.*

**B.Com IT Part- I (Sem.-I)**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

<b>Course Code:DSC1</b>	<b>Programming in C- Part I</b>	<b>Credits:02</b>	<b>Marks: 50</b>
<b>Course Outcomes</b>	After completion of this course students will be able to – 1. Write, compile and debug C Programs. 2. Design programs involving decision structures, loops and functions.		
<b>Unit No.</b>	<b>Descriptions</b>	<b>No. of Periods</b>	
<b>1</b>	<b>C Programming Basics:</b> Header and body, Use of comments. Interpreter vs compiler, Python vs C. Compilation of a program. Formatted I/O: printf(), scanf(). Data: Variables, Constants, data types like: int, float char, double and void, short and long size qualifiers, signed and unsigned qualifiers Variables: Declaring variables, scope of the variables according to block, hierarchy of data types.  <b>Types of operators:</b> Arithmetic, relational, logical, compound assignment, increment and decrement, conditional or ternary, bitwise and comma operators.  Precedence and order of evaluation, statements and Expressions.	<b>15</b>	
<b>2</b>	<b>Control statements and Arrays:</b> (i) Branching: if statement, else.. if statement, (does the writer mean if-else or nested if, switch statement. (ii) Looping: while loop, do.. while, for loop. (iii) Jump statements: break, continue and goto. <b>Arrays:</b> (One and two dimensional), declaring array variables, initialization of arrays, accessing array elements. <b>Data Input and Output functions:</b> Character I/O format: getch(), getche(), getchar(),getc(), gets(), putchar(), putc(),puts(). Manipulating Strings: Declaring and initializing String variables, Character and string handling functions.	<b>15</b>	
	<b>Books Recommended:</b> 1. Programming in ANSI C (Third Edition) : E Balagurusamy, TMH 2. Yashavant P. Kanetkar. “ Let Us C”, BPB Publications 3. Pradip Dey, Manas Ghosh, “Programming in C”, second edition, Oxford University Press		



## **Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### **Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO)	16
Qu.2) Short answer questions (Any TWO out of THREE)	14
Qu.3) Write notes on (Any TWO out of FOUR)	10

### **Internal Marks Distribution:**

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

**B.Com IT Part- I (Sem.-I)**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

<b>Course Code: DSC2</b>	<b>Fundamentals of Information Technology</b>	<b>Credits: 02</b>	<b>Marks : 50</b>
Course Outcomes	After completion of this course, the students will be able to- 1. Understand basic concepts of Information Technology and Computers 2. Understand Number systems and logic gates.		
<b>UnitNo.</b>	<b>Descriptions</b>	<b>No. of Periods</b>	
1	<b>Introduction to Information Technology-</b> <ul style="list-style-type: none"><li>• Definition and meaning of Information Technology</li><li>• Characteristics of Computer</li><li>• Generation of computers</li><li>• Types of computer</li><li>• Block diagram</li><li>• Input- output devices</li><li>• Memory, types of memory</li><li>• Storage devices</li></ul>	15	
2	<b>Number Systems and Logic Gates-</b> Number System – <ul style="list-style-type: none"><li>• Definition</li><li>• Types of Number System<ul style="list-style-type: none"><li>○ Decimal number system (Base- 10)</li><li>○ Binary number system (Base- 2)</li><li>○ Octal number system (Base-8)</li><li>○ Hexadecimal number system (Base- 16)</li></ul></li><li>• Number System Conversion</li><li>• Computer Codes - : BCD, EBCDIC, ASCII.</li><li>• Logic gates &amp; its types-<ul style="list-style-type: none"><li>▪ OR Gate</li><li>▪ AND Gate</li><li>▪ NOT Gate</li><li>▪ XOR Gate</li></ul></li></ul>	15	
	<b>Books Recommended:</b> <ol style="list-style-type: none"><li>1. Computer fundamentals by P.K.Sinha and Priti Sinha</li><li>2. Computer fundamentals by Rajaraman</li><li>3. Computer fundamentals, Architecture and Organization by B. Ram</li></ol>		

## **Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### **Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO) 16

Qu.2) Short answer questions (Any TWO out of THREE) 14

Qu.3) Write notes on (Any TWO out of FOUR) 10

### **Internal Marks Distribution:**

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

**B.Com IT Part- I(Sem.-I)**

**Marks: Semester End: 50 Total Marks: 50**

<b>Course Code: DSC 3</b>	<b>Lab Course –Based on DSC1 and VSC1</b>	<b>Credits: 02</b>	<b>Marks : 50</b>
Course Outcomes	After completion of this course students will be able to - 1. Design and implement programs on C programming concepts. 2. Implement the Document creation and Presentation		
	<b>List of Practical's:</b>		
<b>Sr. No.</b>	<b>Description</b>		
<b>1</b>	Write a program to accept 5 subject marks and calculate total marks, percentage and grade of student.		
<b>2</b>	Write a program to input a number and find the given number is Odd or Even.		
<b>3</b>	Write a program to input the day number and display day of week.		
<b>4</b>	Write a program to find the sum of first n natural numbers.		
<b>5</b>	Write a program which display following output- A B C D E A B C D A B C A B A		
<b>6</b>	Write a program to accept the range and generate Fibonacci Series.		
<b>7</b>	Write a program to find given number is Armstrong or not.		
<b>8</b>	Write a program to find prime numbers between given range		
<b>9</b>	Write a program to sort the numbers in ascending and descending order using array.		
<b>10</b>	Write a program to add two Matrices; Use two Dimensional arrays		
<b>11</b>	<b>MS-Word</b> Creating & Editing Document		
<b>12</b>	Formatting Document :Use of Auto-text, Autocorrect, Spelling and Grammar Tool, Page Formatting, Page Border, Background,		
<b>13</b>	Creation of MS-Word-Mail Merge, Macros, Tables.		
<b>14</b>	Practice of Printing, page setup etc.		
<b>15</b>	Create file, folder, save and save as file in different format. Compress folder and file, search file on computer		
<b>16</b>	<b>MS_POWER POINT:</b> Preparing slide show with animation		
<b>17</b>	Creating a new Presentation based on a template – using Auto content wizard, design template and Plain blank presentation and applies Transition – Automatic and Manual with different effects.		
<b>18</b>	Creating a Presentation applying Custom Animation effects – Applying multiple effects to the same object and changing to a different effect and removing effects.		
<b>19</b>	Creating and Printing handouts.		
<b>20</b>	Creating, Manipulating & Enhancing Slides,		

**Nature of Practical Question Paper:**

**Total Marks: 50**

**Standard of Passing: 20 Marks (40%)**

There will be three questions of 15 Marks each, out of which student have to attempt any two Questions.

10 marks for journal and 10 marks for oral.

Time duration is three hours.

Practical Examination should be conducted by the University appointed examiner panel.

<p style="text-align: center;"><b>Faculty of Commerce and Management</b>  <b>Syllabus as per National Education Policy (NEP) 2020</b>  <b>B.Com. IT Major SEMESTER – I</b>  <b>OE-I Micro Economics-I Credits :2</b>  <b>Marks: Semester End:40 Internal Assessment:10 Total Marks: 50</b>  <b>Introduced from June 2024</b></p>		
<p><b>COURSE OUTCOMES:</b></p> <p>After studying this course, students will be able to...</p> <ol style="list-style-type: none"> <li>1. Understand the basic concepts and scope of business economics</li> <li>2. Understand theories and their Managerial applications</li> </ol>		
<b>Unit No.</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>1</b>	<p><b>Introduction to Economics</b></p> <p>1.1. Definition, Nature, Scope and Significance of Economics</p> <p>1.2. objective of a business firm</p> <p>1.3. Basic Economic Problem</p> <p>1.4. Business Economics and Business Decisions</p> <p>1.5 Difference between Micro and Macro Economics</p>	<b>15</b>
<b>2</b>	<p><b>Concept of Utility</b></p> <p>2.1 Law of Diminishing Marginal Utility</p> <p>2.2 Demand Analysis and Forecasting</p> <p>2.3 Meaning of Demand</p> <p>2.4 Law of Demand</p> <p>2.5 Determinants of demand,</p> <p>2.6 Assumptions of Law of Demand</p> <p>2.7 Elasticity of demand</p> <p>2.8 Measurement of Elasticity of demand and its applications</p>	<b>15</b>

## References:

1. V. K. Puri, S.K. Misra, Bharat Garg (2015). 'Indian Economy' Himalaya Publishing House
2. Ramesh Singh, (2023-2024) 'Indian Economy: For civil services and other competitive examinations'. Mc Graw Hill
3. Davidson, J. (2018). 'An Introduction to Econometric Theory' Wiley Publisher
4. Wignaraja, P. & Sirivardana, S. (2009) 'Economic Democracy through Pro Poor Growth' Sage publisher
5. Havibullah, W& Ahuja, M. (2005) 'Land Reforms in India: Computerisation of Land Records' Sage Publisher.

## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

Answer limit 300-400 words

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**Faculty of Commerce and Management Syllabus as per National Education Policy  
(NEP) 2020**

**B.Com. IT Major SEMESTER – I**

**OE-I Marathi-I**

**Credits: 2**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50  
Introduced from June 2024**

**Course learning outcomes**

या कोर्सच्या अध्ययनानंतर विद्यार्थ्यांना,

१. मराठी भाषा व साहित्याभ्यासाची अभिरुची निर्माण होईल.
२. मराठी साहित्याचे आकलन, विश्लेषण व समीक्षण करता येईल.

**विभाग घटक /Unit**

**(Module)**

**विभाग १ : गद्य १**

१. आपला धंदा कोणता व कसा करावा? - दादोबा पांडुरंग तर्खडकर
२. हिंदी उद्योगधंद्याच्या गरजा व शिक्षण प्रगतीची दिशा - महाराजा सयाजीराव गायकवाड.
३. मराठी माणूस उद्योगधंद्यात मागे का? - बी. जी. शिर्के.
४. ये है बंबई मेरी जान – यशवंत थोरात

**विभाग २ गद्य २**

१. चांदणटिकल्या - सलीम सरदार मुल्ला.
२. उद्याच्या सुंदर दिवसांसाठी - नागनाथ कोत्तापल्ले.
३. हाऊसकिपर ते यशस्वी उद्योजक हणमंतराव गायकवाड - अंजली ठाकूर
४. लक्ष्य - राही सरनोबत

**साधनग्रंथ**

१. काळे, अरुण : नंतर आलेले लोक, लोकवाङ्मय गृह, मुंबई, २०१०
२. कोत्तापल्ले, नागनाथ : उद्याच्या सुंदर दिवसांसाठी, सायन पब्लिकेशन, पुणे, २०१५
३. गवस, राजन, शिंदे, अरुण, पाटील गोमटेश : भाषिक सर्जन आणि उपयोजन, दर्या प्रकाशन, पुणे, २०१२
४. जोशी, वसंत, (संपा) : एकनाथांची निवडक भारुडे, मेहता पब्लिशिंग हाऊस, पुणे, १९९४
५. ठाकूर, अंजली, : असाही एक किमयागार, राजहंस प्रकाशन, पुणे, २०२३



## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

प्रश्न क्र १. बहुपर्यायी वस्तुनिष्ठ प्रश्न (दहा प्रश्न) (प्रत्येकी २ गुण)	गुण	10
प्रश्न क्र २. लघुत्तरी प्रश्न/ टीपा ( चार पैकी दोन)	गुण	10
प्रश्न क्र ३. लघुत्तरी प्रश्न ( चार पैकी दोन )	गुण	10
प्रश्न क्र ४. अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	गुण	10

*Note: Question Paper should cover all the units in the syllabus.*

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

- सातत्यपूर्ण अंतर्गत मूल्यमापनाच्या विविध पद्धतींचा वापर करून शिक्षकांनी विद्यार्थ्यांचे अंतर्गत मूल्यमापन करणे आवश्यक आहे.

**Faculty of Commerce and Management Syllabus as per National Education Policy  
(NEP) 2020**

**B.Com. IT Major SEMESTER – I**

**OE-I Hindi-I**

**Credits: 2**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50  
Introduced from June 2024**

**\* उद्देश्य**

1. प्रयोजनमूलक हिंदी के प्रति छात्रों की रुचि बढ़ाना ।
2. प्रयोजनमूलक हिंदी एवं उसकी उपयोगिता से छात्रों को परिचित कराना ।
3. काव्य एवं कहानी विधा का आस्वाद, विवेचन एवं महत्त्व समझाना ।
4. हिंदी कवि एवं कहानीकारों तथा उनकी रचनाओं से परिचित कराना ।
5. साहित्य के माध्यम से नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तिदायित्व के प्रति आस्था निर्माण करना ।
6. हिंदी भाषा के श्रवण, पठन, विचार, कल्पना एवं लेखन क्षमता का छात्रों में विकास करना ।

**\* अध्यापन पद्धतियाँ**

1. व्याख्यान तथा विश्लेषण ।
2. दृकश्रव्य साधनों का प्रयोग ।
3. विद्वानों के व्याख्यान ।
4. गोष्ठी, परिचर्चा एवं स्वाध्याय ।

**इकाई – I विज्ञापन लेखन**  
Credit -01)

(Hours -15,

1. विज्ञापन का स्वरूप एवं महत्त्व
2. विज्ञापन के अंग
3. विज्ञापन के उद्देश्य
4. विज्ञापन के क्षेत्र में रोजगार के अवसर

**इकाई – II कविताएँ**

(Hours -15, Credit -01)

1. आ: धरती कितना देती है - सुमित्रानंदन पंत
2. जीवन का झरना - आरसीप्रसाद सिंह
3. पहचान - डॉ. देवेन्द्र दीपक
4. यहाँ थी वह नदी - मंगलेश डबराल

**\* संदर्भ ग्रंथ सूची**

1. प्रयोजनमूलक हिंदी - डॉ. लक्ष्मीकांत पांडेय
2. प्रयोजनमूलक हिंदी की प्रासंगिकता एवं परिदृश्य - डॉ. सु. नागलक्ष्मी
3. प्रयोजनमूलक हिंदी - डॉ. माधव सोनटक्के
4. प्रयोजनमूलक व्यावहारिक हिंदी - ओमप्रकाश मित्तल
5. विज्ञापन कला : कल, आज और कल - यशोदा भागवत (अनु. डॉ. गोविंद गुठे)
6. सूचना विज्ञान के बहुआयामी प्रभाव - डॉ. गोविंद गुठे

**Examination Pattern and Nature of Examination:****End Semester Theory Exam: 40 Marks****Internal Assessment: 10 Marks (Based on Activities and exercises)**

प्र श्न	प्रश्नपत्र का स्वरूप	अंक
1.	समग्र पाठ्यक्रम पर दस बहुविकल्पीय प्रश्न। अ) नीचे दिए गए विकल्पों में से सही विकल्प चुनिए। 06 अंक ब) नीचे दिए गए विकल्पों में से सही विकल्प चुनकर रिक्त स्थानों की पूर्ति किजिए। 04 अंक	10
2.	समग्र पाठ्यक्रम पर लघुतरी प्रश्न। (चार में से दो) (उत्तर सीमा 150-200 शब्द )	10
3.	समग्र पाठ्यक्रम पर दीर्घोत्तरी प्रश्न। (अंतर्गत विकल्प के साथ) (उत्तर सीमा 600-800 शब्द )	20
	<b>अंतर्गत मूल्यमापन परीक्षा -</b> ( मौखिक / चर्चासत्र / स्वाध्याय / यात्रा भेंट / क्षेत्रीय कार्य)	10
	<b>कुल-</b>	50

**Faculty of Commerce and Management**  
**Syllabus as per National Education Policy (NEP) 2020**  
**B.Com. IT Major**  
**SEMESTER – I**  
**OE- II: Mathematics I**  
**Credits: 2**

**Marks: Semester End:40 Internal Assessment:10 Total Marks: 50**  
**Introduced from June 2024**

**COURSE OUTCOMES:**

After studying this course, students will be...

- Introduced to fundamental concepts mathematics.
- Getting thorough knowledge of Determinants.
- Demonstrates the ability to solve problem.

Unit No.	Contents	No. of Hours
<b>I</b>	<b>Profit and Loss:</b> <ul style="list-style-type: none"> <li>▪ Basic concept of profit and Loss</li> <li>▪ Important terms – cost price, Fixed, variable and semi variablecost, selling price, market price, etc.</li> <li>▪ Formulas for calculating Profit and loss.</li> <li>▪ Application and examples.</li> </ul>	<b>15</b>
<b>II</b>	<b>Determinants:</b> <ul style="list-style-type: none"> <li>▪ Introduction to Determinants</li> <li>▪ Types of Determinants</li> <li>▪ Properties of Determinants</li> <li>▪ Application of Determinants.</li> </ul>	<b>15</b>

**References-**

1. A text book of Business Mathematics- Dr. Padmalochan Hazariya, S. Chand Publication
2. Business Mathematics by Dr. S.K.sharma, Dr. Gurmit Kour, SCS publication.
3. Business Mathematics by Priti Shantaram Mevse, Thakur publication Pvt. Ltd.

## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
9. Seminar 10. Poster Presentation 11. Role Play 12. Group Discussion 13. Unit Tests 14. Visits 15. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**Faculty of Commerce and Management**  
**Syllabus as per National Education Policy (NEP) 2020**  
**B.Com. IT Major**  
**SEMESTER – I**

**OE- II: Statistics I**

**Credits: 2**

**Marks: Semester End:40 Internal Assessment:10 Total Marks: 50**

**Introduced from June 2024**

**COURSE OUTCOMES:**

After studying this course, students will be...

- 1) Explain various term used in Statistics.
- 2) Describe the Measures of Central Tendency and Dispersion

Unit No.	Contents	No. of Hours
<b>I</b>	<b>Introduction to Statistics</b> 1.1 Meaning and Scope of Statistics, Primary and Secondary data. 1.2 Frequency, Frequency distribution, Qualitative and quantitative data, Discrete and Continuous variables. 1.3 Representation of frequency distribution by graphs: Histogram, Frequency polygon, Frequency curve, O give curve. Representation of Statistical data by Bar diagram and Pie chart.	<b>15</b>
<b>II</b>	<b>Measures of Central Tendency and Dispersion</b> 2.1 Measures of central Tendency (Averages) 2.1.1 Meaning of averages, Requirements of good average. 2.1.2 Definitions of Arithmetic mean (A.M.), Combined mean, Median, Quartiles, Mode, Relation between mean, median and mode. 2.1.3 Merits and Demerits of Mean, Median and Mode. 2.1.4 Numerical examples based on 2.1.2. 2.1.5 Determination of Median and Mode by Graph. <b>2.2 Measures of Dispersion (Variability):</b> 2.2.1 Meaning of Variability, Absolute and Relative measures of dispersion. 2.2.2 Definitions of Q.D., M.D., S.D. and Variance, Combined variance and their relative measures, Coefficient of Variation (C.V.).	<b>15</b>
	<b>Reference Books:</b> 1) Mathematical Statistics by H.C. Saxena and J. N. Kapur 2) Business Statistics by G. V. Kumbhojkar 3) Fundamentals of Statistics by S. C. Gupta 4) Business Statistics by S. S. Desai 5) Business Statistics - SIM-Shivaji University, Kolhapur	

**Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

**Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

D) Multiple Choice Question 4 Marks

E) True or False 3 Marks

F) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

**Internal Marks Distribution:**

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**B.Com IT Part- I (Sem.-I)**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

<b>Course Code: VSC1</b>	<b>Office Automation-I</b>	<b>Credits: 02</b>	<b>Marks : 50</b>
<b>Course Outcomes</b>	After completion of this course students will be able to – 1) Understand the office automation and formatting tools in Office automation. 2) Prepare presentation using Power point application.		
<b>Unit No</b>	<b>Descriptions</b>	<b>No. of Periods</b>	
1	<b>INTRODUCTION TO OFFICE AUTOMATION:</b> Elements of Office Suit & Area of Use. Benefits of Office Suites, Types of Users that Use Office Suites, Features Offered by Office Suite Software. <b>INTRODUCTION TO MS WORD :</b> Introduction to MS Word, Opening & Saving files, Editing text documents, Inserting, Deleting, Cut, Copy, Paste, Undo, Redo, Find, Search, Replace, Formatting page & setting Margins, Importing & Exporting documents, Sending files to others, Using Tool bars, Ruler, Using Icons, using help, Formatting Documents, Type face, Line Space, Margins, Bullets & Numbering. Setting Page style, Shortcut Keys, Setting Document styles, Table of Contents, Index, Page Numbering, date & Time, Author etc., Creating Tables- Table settings, Borders, Alignments, Insertion, deletion, Merging, Splitting, Sorting, and Formula, Drawing - Inserting ClipArts, Pictures/Files etc., Tools – Word Completion, Spell Checks, Mail merge, Templates, Creating Letter/Faxes.	15	
2	<b>INTRODUCTION TO MS POWER POINT:</b> Introduction to presentation – Opening new presentation, Different presentation templates, Setting backgrounds, Selecting presentation layouts. Creating a presentation - Setting Presentation style, Formatting a Presentation - Adding style, Color, gradient fills, Arranging objects, Adding Header & Footer, Slide Background, Slide layout. Adding Graphics to the Presentation Inserting pictures, movies, tables etc. Adding Effects to the Presentation- Setting Animation & transition effect. Printing Handouts.	15	
	<b>BOOKS RECOMMENDED:</b> 1. Microsoft Office Step by Step Beth Melton, Mark Dodge , Published with the authorization of Microsoft Corporation by: O'Reilly Media. 2. Office 2013 Bible: The Comprehensive Tutorial Resource Paperback – by Lisa A. Bucki (Author), John Walkenbach (Author), Michael Alexander. 3. Learning Microsoft Office 2013 by Ramesh Bangia, Khanna Publishers. 4. Microsoft Office 2010 Bible - John 5. Introduction to Information Technology - Alexis Leon, Mathews Leon, and Leena Leon, Vijay Nicole Imprints Pvt. Ltd., 2013. <b>6. Websites:</b> <a href="http://windows.microsoft.com/en-in/windows/msoffice-basics-alltopics">http://windows.microsoft.com/en-in/windows/msoffice-basics-alltopics</a>		



## **Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### **Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO)	16
Qu.2) Short answer questions (Any TWO out of THREE)	14
Qu.3) Write notes on (Any TWO out of FOUR)	10

### **Internal Marks Distribution:**

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

**B.Com IT Part- I (Sem.-I)**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

<b>Course Code: SEC1</b>	<b>Computer Assembly &amp; Troubleshooting-I</b>	<b>Credits: 02</b>	<b>Marks : 50</b>
Course Outcomes	After completion of this course, the students will be able to- 1) Understand the assembly of Personal Computers. 2) Identify the basic techniques of troubleshooting of Personal Computers.		
<b>UnitNo.</b>	<b>Descriptions</b>	<b>No. of Periods</b>	
1	<b>Motherboard and Processor:</b> Study of different types of Motherboards, Motherboard Configuration, Identifying Internal and External connectors, Types of data cables, <b>Types of Processor.</b>	15	
2	<b>Diagnostic and troubleshooting of PC:</b> POST (Power on Self Test), Identifying problems by Beep codes errors. BIOS Configuration: Study of BIOS Set-up, Boot configuration, Boot Men, <b>Types of Memories:</b> Troubleshooting problems.	15	
	<b>Books Recommended:</b> 1. PC Assembly and Installation, Dr. Tariq Hussain Sheikh, Naresh Kumar, Booksclinic Publishing. 2. PC Repair and Troubleshooting Guide, Mark Edward Soper, BPB Publications 3. Book Of PC Assembling by VISHNU P. SINGH 4. Computer Hardware: Installation, Interfacing, Troubleshooting and Maintenance, James, K. L. PHI Learning		

**Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

**Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO)	16
Qu.2) Short answer questions (Any TWO out of THREE)	14
Qu.3) Write notes on (Any TWO out of FOUR)	10

**Internal Marks Distribution:****Total Marks: 10****Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

<p style="text-align: center;"><b>Faculty of Commerce and Management</b>  <b>Syllabus as per National Education Policy (NEP) 2020</b>  <b>B.Com. IT Major</b>  <b>SEMESTER – I</b>  <b>AEC-I : English for Business Communication ICredits: 2</b>  <b>Marks: Semester End:40 Internal Assessment:10 Total Marks: 50</b>  <b>Introduced from June 2024</b></p>		
<p><b>COURSE OUTCOMES:</b>  After studying this course, students will be...</p> <ul style="list-style-type: none"> <li>• Enhance their Managerial Communication at work skills set for career.</li> <li>• Familiarized with the current expected requirement of the industry.</li> <li>• Empower with professional as well as remedial of the industry.</li> </ul>		
<b>Unit No.</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<p><b>Introduction to Business Communication:</b></p> <ul style="list-style-type: none"> <li>▪ Meaning, Definitions and basic forms of Communication</li> <li>▪ Process and need of communication</li> <li>▪ Channels of communication</li> <li>▪ Global world impact of technological advancement on communication</li> </ul>	<b>15</b>
<b>II</b>	<p><b>Communication skills:</b></p> <ul style="list-style-type: none"> <li>▪ Listening skills: Importance and factors affecting on listening skills</li> <li>▪ Speaking skills; Importance and principles of effective speaking</li> <li>▪ Interview skills: types of interview, preparing for interview.</li> <li>▪ Brief about group discussion, business meetings and conferences, etc.</li> </ul>	<b>15</b>

#### **References-**

1. Business Communication- D.D. Singhal, Cengage Learning, 16<sup>th</sup> edition
2. Communication skills- Dr. P.L. Pardeshi, Parshwa Publication.
3. Business Communication- Varinder Kumar, Kalyani Publisher.
4. Essential of Business Communication- Rajendra Pal, Sultan chand and son.

## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

Answer limit 300-400 words

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**Faculty of Commerce and Management**  
**Syllabus as per National Education Policy (NEP) 2020**  
**B.Com. IT Major**  
**SEMESTER – I**

**IKS I: Ancient Indian Management**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

**Introduced from June 2024**

<b>COURSE OUTCOMES:</b> After studying this course, students will be able to... 1. Understand the key ideas of Indian management 2. Explain how to develop Indian thoughts in management 3. Application of values in Management 4. Demonstrate various examples of Indian thinkers and Indian business models before the students		
<b>Unit No.</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>1</b>	<b>Indian Management:</b> (a) Evolution of Indian Management, key ideas of Indian Management, Role of Values in Management, Indian Epics and Management, (b) Dimensions of Vedic Management, Bhagwad Gita, Ramayan, Buddha's Management, Kautilaya's Arthshastra	<b>15</b>
<b>2</b>	<b>Indian Business Models</b> Business Model of Tata, Business Model of Bajaj Group, Business Model of Aditya Birla Group, Business Model of Reliance Industries, Business Model of AMUL	<b>15</b>

**References:**

1. Sancev Rinka and Khanna, Parul: Ethics and Values in Business Management, Ane Books Pvt. Ltd,
2. Khanna. S.: Vedic Management, Taxman Publication (P) Ltd.
3. Bhagwad Gita as Viewed by Swami Vivekananda; Vedanta Press & Bookshop
4. Rajgopalachari C. Ramayan Bhartiya Vidya Bhawan
5. Dona Witten and Akong Tulku Rinpoche, Enlightened Management: Bringing Buddhist Principles to Work, Park Street Press,
6. B. R. Ambedkar, Buddha and His Dhamma, Government of Maharsthra, W & S of Dr. Babasaheb Ambedkar, Mumbai
7. Gita Piramal: Business Legends
8. Kalai Selvan N: Tata's Business and Growth Strategy (Business Strategy Series) 1 Jan 2008

## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

Answer limit 300-400 words

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<b><i>Particulars</i></b>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**B.Com IT Part- I (Sem.-II)**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

<b>Course Code: DSC4</b>	<b>Programming in C- Part II</b>	<b>Credits:02</b>	<b>Marks:50</b>
<b>Course Outcomes</b>	After completion of this course students will be able to – 1. Understand the use of pointers and functions. 2. Design and develop different data structures and create/update basic data files.		
<b>Unit No.</b>	<b>Descriptions</b>	<b>No. of Periods</b>	
<b>1</b>	<b>Functions and Pointers:</b> Function declaration, function definition, Global and local variables, return statement, Calling a function by passing values. Recursion: Definition, Recursive functions. <b>Pointers:</b> Fundamentals, Pointer variables, Referencing and de-referencing, Pointer Arithmetic, Using Pointers with Arrays, Using Pointers with Strings, Array of Pointers	<b>15</b>	
<b>2</b>	<b>Structures and File Handling:</b> Declaration of structure, reading and assignment of structure variables, Array of structures, arrays within structures, structures within structures. union, differentiate between structure & union. <b>File handling:</b> Different types of files like text and binary, Different types of functions: fopen(), fclose(), fgetc(), fputc(), fgets(), fputs(), fscanf(), fprintf(), getw(), putw(), fread(), fwrite(), fseek().	<b>15</b>	
	<b>Books Recommended:</b> 1. Programming in ANSI C (Third Edition) : E Balagurusamy, TMH 2. Yashavant P. Kanetkar. “ Let Us C”, BPB Publications 3. Pradip Dey, Manas Ghosh, “Programming in C”, second edition, Oxford University Press		

**Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

**Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO) 16

Qu.2) Short answer questions (Any TWO out of THREE) 14

Qu.3) Write notes on (Any TWO out of FOUR) 10



**Internal Marks Distribution:****Total Marks: 10****Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

**B.Com IT Part- I (Sem.-II)**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

Course Code: <b>DSC-5</b>	<b>Operating System</b>	Credits: <b>2</b>	Marks: <b>50</b>
Course Outcomes	After completion of this course students will be able to – 1. Understand the fundamental concepts and functions of operating systems. 2. Implement and manage file systems, understand security principles, and perform system maintenance tasks.		
<b>Unit No</b>	<b>Descriptions</b>	<b>No. of Lecture</b>	
1	<b>Introduction to Operating System:</b> Definition and functions of an operating system, Evolution of operating systems, Types of operating systems: Batch, Time-Sharing, Real-Time, Distributed, Operating System Structure, Monolithic Kernel vs. Microkernel, Layered Architecture, Hybrid Systems. <b>Process Management:</b> Processes and threads, Process states and life cycle, Process scheduling algorithms, Inter-process communication (IPC) <b>Memory Management:</b> Memory hierarchy, Virtual memory concepts, Page replacement algorithms, Memory allocation strategies	15	
2	<b>File Systems and Security:</b> File system concepts and organization, File operations: Create, Read, Write, Delete, File attributes and permissions, Directory structures <b>File System Implementation</b> File allocation methods, Directory implementation, Disk management and optimization, File system recovery and consistency <b>Security and Protection</b> Security threats and vulnerabilities, Authentication and authorization Access control mechanisms, Encryption and decryption, Backup and recovery procedures.	15	
	<b>Books Recommended:</b> 1. "Operating System Concepts" by Abraham Silberschatz, Peter B. Galvin, and Greg Gagne 2. "Modern Operating Systems" by Andrew S. Tanenbaum and Herbert Bos 3. "Operating Systems: Internals and Design Principles" by William Stallings 4. "Operating System Principles" by Gary Nutt		

## **Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### **Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO)	16
Qu.2) Short answer questions (Any TWO out of THREE)	14
Qu.3) Write notes on (Any TWO out of FOUR)	10

### **Internal Marks Distribution:**

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

**B.Com IT Part- I (Sem.-II)**

**Marks: Semester End: 50 Total Marks: 50**

<b>Course Code: DSC 6</b>	<b>Lab Course –Based on DSC4 and VSC2</b>	<b>Credits: 02</b>	<b>Marks : 50</b>
Course Outcomes	After completion of this course students will be able to – 1. Design and implement programs on arrays and functions. 2. Implement MS-Excel worksheets and MS-Access database concepts.		
	<b>List of Practical's:</b>		
<b>Sr. No.</b>	<b>Description</b>		
<b>1</b>	Write a program to find the product of given two matrices.		
<b>2</b>	Write a function which adds three number and display output on the screen.		
<b>3</b>	Write a function which calculate cube of given number.		
<b>4</b>	Write a program which swap two number using a) call by value and b)call by reference.t		
<b>5</b>	Write a program which create student structure which accept stud rollno, student name, address, subject marks , percentage and display same on screen.		
<b>6</b>	Write a program to separate even and odd numbers available in file.		
<b>7</b>	Write a program to count the no. of words in a given text file.		
<b>8</b>	Write a program to remove blank lines from a file.		
<b>9</b>	Write a program to copy content of one file into another file.		
<b>10</b>	Write a file handling program which accept student information store it into disk file using binary mode.		
<b>11</b>	<b>MS-Excel</b> Creating & Editing Worksheet, Fill Handle		
<b>12</b>	Use Formulas and Functions		
<b>13</b>	Preparing Charts		
<b>14</b>	Use of different Formulae's and function		
<b>15</b>	Sorting, Filtering, Graphs		
<b>16</b>	<b>MS Access</b> Write procedure for creating database in MS-Access.		
<b>17</b>	Establish relationship between tables and write steps for it.		
<b>18</b>	Generate form in MS-Access and write steps in detail.		
<b>19</b>	Create reports using different queries based on multiple tables and write steps in detail for it.		
<b>20</b>	Lab assignment based on Case Studies a) Library system: b) HR Management System c) Inventory Management System Design normalized data structures with appropriate constraints. (at least 5 tables for each system), Design forms, Create different query using query wizard, Create at least 3 reports using report wizard (at least 5 records)		

**Nature of Practical Question Paper:**

**Total Marks: 50**

**Standard of Passing: 20 Marks (40%)**

There will be three questions of 15 Marks each, out of which student have to attempt any two Questions.

10 marks for journal and 10 marks for oral.

Time duration is three hours.

Practical Examination should be conducted by the University appointed examiner panel.

<p style="text-align: center;"><b>Faculty of Commerce and Management</b>  <b>Syllabus as per National Education Policy (NEP) 2020</b>  <b>B.Com. IT Major SEMESTER – II</b>  <b>DSM I: Insurance Credits: 2</b>  <b>Marks: Semester End:40 Internal Assessment:10 Total Marks: 50</b>  <b>Introduced from June 2024</b></p>		
<p><b>COURSE OUTCOMES:</b>  After studying this course, students will be...</p> <ul style="list-style-type: none"> <li>• Know about concept of Insurance</li> <li>• Aware about importance of Insurance in society.</li> <li>• Able to understand Various types of insurance</li> </ul>		
<b>Unit No.</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<p><b>Introduction to Insurance:</b></p> <ul style="list-style-type: none"> <li>▪ Definition, characteristics of insurance.</li> <li>▪ Need of insurance and Principles of Insurance.</li> <li>▪ Economic and commercial significance of insurance.</li> <li>▪ Insurance as a social security tool.</li> </ul>	<b>15</b>
<b>II</b>	<p><b>Types of Insurance:</b></p> <ul style="list-style-type: none"> <li>▪ Meaning and Nature of life insurance, Fire insurance and Marine Insurance.</li> <li>▪ Products under Life Insurance policies.</li> <li>▪ Procedure of taking fire Insurance policy.</li> <li>▪ Procedure of taking marine insurance policy.</li> </ul>	<b>15</b>

**References-**

1. G.S. Panda- Principles and Practices of Insurance' Kalyani Publishers, Ludhiana.
2. M. Arif khan Practice of Insurance, Educational Book House, Aligarh.
3. M.N. Mishra-'Insurance Principles and Practice' S. Chand & Company Ltd.,New Delhi.

## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

Answer limit 300-400 words

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**Faculty of Commerce and Management**  
**Syllabus as per National Education Policy (NEP) 2020**  
**B.Com. Bank Management Major**  
**SEMESTER – II**  
**OE-III Macro Economics Credits :2**  
**Marks: Semester End:40 Internal Assessment:10 Total Marks: 50**  
**Introduced from June 2024**

**COURSE OUTCOMES:**

After studying this course, students will be able to...

1. Understand the concepts of national income and demand of supply of money.
2. Understand the concepts of public finance.

Unit No.	Contents	No. of Hours
<b>I</b>	<b>Introduction to Macroeconomics</b> 1.1. Meaning and Scope of Macro Economics 1.2. Circular Flow of National Income - Five Sector Model of National Income 1.3. Concepts of National Income- GDP, GNP, NNP, PCI, PI & DI 1.4. National Income Accounting - Income, Expenditure and Production Method	<b>15</b>
<b>2</b>	<b>Supply of Money</b> 2.1 Definition 2.2 Functions of money 2.3 Demand for money and supply of money 2.4 Effect of money supply on the economy 2.5 Components of the money supply 2.6 Public finance in India- Introduction, meaning, definition 2.7 Difference between public and private finance 2.8 Public expenditure-classification	<b>15</b>

**References:**

1. V. K. Puri, S.K. Misra, Bharat Garg (2015). 'Indian Economy' Himalaya Publishing House
2. Ramesh Singh, (2023-2024) 'Indian Economy: For civil services and other competitive examinations'. Mc Graw Hill
3. Davidson, J. (2018). 'An Introduction to Econometric Theory' Wiley Publisher
4. Wignaraja, P. & Sirivardana, S. (2009) 'Economic Democracy through Pro Poor Growth' Sage publisher
5. Havibullah, W & Ahuja, M. (2005) 'Land Reforms in India: Computerisation of Land Records' Sage Publisher.



## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

Answer limit 300-400 words

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**Faculty of Commerce and Management Syllabus as per National Education Policy  
(NEP) 2020**

**B.Com. IT Major SEMESTER – II**

**OE-III Marathi-II**

**Credits: 2**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50  
Introduced from June 2024**

**Course learning outcomes**

या कोर्सच्या अध्ययनानंतर विद्यार्थ्यांना,

१. मराठी भाषा व साहित्याभ्यासाची अभिरुची निर्माण होईल.
२. मराठी साहित्याचे आकलन, विश्लेषण व समीक्षण करता येईल.
३. मराठी कवितेचे आस्वादन व मूल्यनिर्णयन करता येईल.
४. वैचारिक व ललित स्वरूपाचे लेखन करता येईल
५. मुलाखतीचे कौशल्य अवगत होईल.

**विभाग घटक / Unit**

(Module)

**विभाग १. गद्य - १**

१. भारताचा शोध – पं. जवाहरलाल नेहरू
२. अवघे धरु सुपंथ – रत्नाप्पा कुंभार
३. व्यवसायाची नीतितत्त्वे – जे.आर.डी. टाटा
४. भुकेलेले राहा... वेडे राहा - स्टीव्ह जॉब.

**विभाग २. गद्य - २**

१. स्लीपर - महादेव मोरे
२. रावीपार - गुलजार
३. यंत्रमहर्षी म्हादबा मेस्त्री – प्र. के. अत्रे
४. 'शारदा प्रशाले'तील धडे - प्रतापराव पवार

**साधनग्रंथ**

१. अत्रे, प्र. के : यंत्रमहर्षी म्हादबा मिस्त्री, वै. मराठा, (अग्रलेख)
२. कीर, धनंजय व इतर, (संपा) : महात्मा फुले समग्र वाङ्मय, महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळ, मुंबई, १९९१
३. गवस, राजन, शिंदे, अरुण, पाटील गोमटेश., भाषिक सर्जन आणि उपयोजन, दर्या प्रकाशन, पुणे, २०१२
४. गुलजार : रावीपार, (अनु.) विजय पडळकर, मोहन वेल्हाळ, मेहता पब्लिशिंग हाऊस, पुणे, २००१
५. गोडबोले, अच्युत व कहाते अतुल, स्टीव्ह जॉब्स: एक झपाटलेला तंत्रज्ञ! मेहता पब्लिशिंग हाऊस, पुणे, २०१८
६. नसिराबादकर, ल. रा : व्यावहारिक मराठी, भाषाविकास संशोधन संस्था, कोल्हापूर २०२३
७. नेहरू, जवाहरलाल, भारताचा शोध, (अनु), साने गुरुजी, ना. वि. करंदीकर, कॉन्टिनेन्टल प्रकाशन, पुणे
८. पवार, प्रतापराव : वाटचाल, सकाळ पेपर्स लि. पुणे, २००८
९. पंडित, माया : तल्लखली, शब्द पब्लिकेशन, मुंबई, २०१८
१०. भगत, रा. तु (संपा) : हे कुंभ अमृताचे, चक्र प्रवर्तन प्रकाशन, कोल्हापूर, १९७५
११. मोरे, महादेव : इगोड, सुकृत प्रकाशन, सांगली, २०२२

**Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

प्रश्न क्र १. बहुपर्यायी वस्तुनिष्ठ प्रश्न (दहा प्रश्न) (प्रत्येकी २ गुण)	गुण	10
प्रश्न क्र २. लघुत्तरी प्रश्न/ टीपा ( चार पैकी दोन)	गुण	10
प्रश्न क्र ३. लघुत्तरी प्रश्न ( चार पैकी दोन )	गुण	10
प्रश्न क्र ४. अंतर्गत विकल्पासह दीर्घोत्तरी प्रश्न	गुण	10

*Note: Question Paper should cover all the units in the syllabus.*

**Internal Marks Distribution:**

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

- सातत्यपूर्ण अंतर्गत मूल्यमापनाच्या विविध पद्धतींचा वापर करून शिक्षकांनी विद्यार्थ्यांचे अंतर्गत मूल्यमापन करणे आवश्यक आहे.

**Faculty of Commerce and Management Syllabus as per National Education Policy  
(NEP) 2020**

**B.Com. IT Major SEMESTER – II**

**OE-III Hindi-II**

**Credits: 2**

**Marks: Semester End: 40 Internal Assessment: 10 Total Marks: 50**

**Introduced from June 2024**

**\* उद्देश्य**

1. प्रयोजनमूलक हिंदी के प्रति छात्रों की रुचि बढ़ाना।
2. प्रयोजनमूलक हिंदी एवं उसकी उपयोगिता से छात्रों को परिचित कराना।
3. काव्य एवं कहानी विधा का आस्वाद, विवेचन एवं महत्व समझाना।
4. हिंदी कवि एवं कहानीकारों तथा उनकी रचनाओं से परिचित कराना।
5. साहित्य के माध्यम से नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तिदायित्व के प्रति आस्था निर्माण करना।
6. हिंदी भाषा के श्रवण, पठन, विचार, कल्पना एवं लेखन क्षमता का छात्रों में विकास करना।

**\* अध्यापन पद्धतियाँ**

1. व्याख्यान तथा विक्षेपण
2. दृक्श्रव्य साधनों का प्रयोग
3. विद्वानों के व्याख्यान
4. गोष्ठी, परिचर्चा एवं स्वाध्याय

**इकाई - I साक्षात्कार लेखन**

**(Hours -15, Credit -01)**

1. साक्षात्कार का स्वरूप
2. साक्षात्कार – प्रविधि
3. साक्षात्कार का महत्व
4. साक्षात्कार के उद्देश्य

**इकाई - III कहानियाँ**

**(Hours -15, Credit -01)**

1. समय- यशपाल
2. सुख – काशीनाथ सिंह
3. छोटा किसान - जयनंदन
4. चुभता हुआ घोंसला – दामोदर खडसे

**\* संदर्भ ग्रंथ सूची**

1. कविता के नए प्रतिमान - डॉ. नामवर सिंह
2. नई कविता के प्रमुख हस्ताक्षर - डॉ. संतोषकुमार तिवारी
3. हिंदी के आधुनिक प्रतिनिधि कवि - द्वारिका प्रसाद सक्सेना
4. कहानी : स्वरूप और संवेदना - राजेंद्र यादव
5. समकालीन हिंदी कहानी - डॉ. पुष्पलाल सिंह
6. हिंदी कहानी का समकालीन परिदृश्य - डॉ. वेदप्रकाश अमिताभ
7. दामोदर खडसे का सृजन संसार - डॉ. महिपति शिवदास

**Examination Pattern and Nature of Examination:****End Semester Theory Exam: 40 Marks****Internal Assessment: 10 Marks (Based on Activities and exercises)**

प्र श्न	प्रश्नपत्र का स्वरूप	अंक
1.	समग्र पाठ्यक्रम पर दस बहुविकल्पीय प्रश्न। अ) नीचे दिए गए विकल्पों में से सही विकल्प चुनिए। 06 अंक ब) नीचे दिए गए विकल्पों में से सही विकल्प चुनकर रिक्त स्थानों की पूर्ति किजिए। 04 अंक	10
2.	समग्र पाठ्यक्रम पर लघुतरी प्रश्न। (चार में से दो) (उत्तर सीमा 150-200 शब्द )	10
3.	समग्र पाठ्यक्रम पर दीर्घोत्तरी प्रश्न। (अंतर्गत विकल्प के साथ) (उत्तर सीमा 600-800 शब्द )	20
	<b>अंतर्गत मूल्यमापन परीक्षा -</b> ( मौखिक / चर्चासत्र / स्वाध्याय / यात्रा भेंट / क्षेत्रीय कार्य)	10
	<b>कुल-</b>	50

<p style="text-align: center;"><b>Faculty of Commerce and Management</b>  <b>Syllabus as per National Education Policy (NEP) 2020</b>  <b>B.Com. IT Major</b>  <b>SEMESTER – II</b>  <b>OE- IV: Mathematics IICredits: 2</b>  <b>Marks: Semester End:40 Internal Assessment:10 Total Marks: 50</b>  <b>Introduced from June 2024</b></p>		
<p><b>COURSE OUTCOMES:</b>  After studying this course, students will be...</p> <ul style="list-style-type: none"> <li>• Introduced to fundamental concepts of mathematics.</li> <li>• Getting thorough knowledge of Determinants.</li> <li>• Demonstrates the ability to solve problem.</li> </ul>		
<b>Unit No.</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<p><b>Ratio and Proportion:</b></p> <ul style="list-style-type: none"> <li>▪ Introduction to Ratios and Proportion.</li> <li>▪ Types of Ratios</li> <li>▪ Calculations of Ratios</li> <li>▪ Proportion – examples</li> </ul>	<b>15</b>
<b>II</b>	<p><b>Matrices:</b></p> <ul style="list-style-type: none"> <li>▪ Types of Matrices.</li> <li>▪ Properties of Matrices.</li> <li>▪ Basic operations of matrices</li> <li>▪ Application of Matrices</li> </ul>	<b>15</b>

**References-**

1. A text book of Business Mathematics- Dr. Padmalochan Hazariya, S. Chand Publication
2. Business Mathematics by Dr. S.K.sharma, Dr. Gurmit Kour, SCS publication.
3. Business Mathematics by Priti Shantaram Mevse, Thakur publication Pvt. Ltd.

## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**Faculty of Commerce and Management**  
**Syllabus as per National Education Policy (NEP) 2020**  
**B.Com. IT Major**  
**SEMESTER – I**

**OE- IV: Statistics II**

**Credits: 2**

**Marks: Semester End:40 Internal Assessment:10 Total Marks: 50**  
**Introduced from June 2024**

**COURSE OUTCOMES:**

After studying this course, students will be...

- 1) Understand Analysis of Bivariate data(Correlation and Regression)
- 2) Elaborate Sampling Techniques and Time Series Analysis.

Unit No.	Contents	No. of Hours
<b>I</b>	<b>Analysis of Bivariate data:</b> 3.1 Correlation: 3.1.1 Concept of Correlation, Types of correlation (Positive, Negative, Linear and Non-linear), Methods of studying correlation: Scatter diagram, Karl Pearson's Correlation Coefficient (r) and Spearman's Rank Correlation Coefficient (R). 3.1.2 Interpretation of $r = +1$ , $r = -1$ , $r = 0$ . <b>3.2 Regression:</b> 3.2.1. Concept of Regression, Definitions of regression coefficients and Equations of regression lines. Properties of regression coefficients (Statements only)	<b>15</b>
<b>II</b>	<b>Sampling Techniques and Time Series Analysis:</b> 4.1 Sampling Techniques: 4.1.1 Definitions of Sample, Population, Sampling, Sampling Method and Census method. Advantages of sampling method over census method. 4.1.2 Types of sampling: Simple Random Sampling (with and without replacement), Stratified Random Sampling, Merits and Demerits of S.R.S. and Stratified Sampling. 4.1.3 Simple examples on Stratified Sampling. <b>4.2 Time Series: (Analysis and Forecasting)</b> 4.2.1 Meaning and components of Time Series 4.2.2 Methods of determination of trend by (I) Method of Moving Averages. (II) Method of Progressive Averages. (III) Method of Least Squares (St.Line only)	<b>15</b>
	<b>Reference Books:</b> 1) Mathematical Statistics by H.C. Saxena and J. N. Kapur 2) Business Statistics by G. V. Kumbhojkar 3) Fundamentals of Statistics by S. C. Gupta 4) Business Statistics by S. S. Desai 5) Business Statistics - SIM-Shivaji University, Kolhapur	



## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

A) Multiple Choice Question 4 Marks

B) True or False 3 Marks

C) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

**B.Com IT Computer Applications Part- I(Sem.-II)**

<b>Course Code: VSC2</b>	<b><u>Office Automation-II</u></b>	<b>Credits: 02</b>	<b>Marks : 50</b>
<b>Course Outcomes</b>	After completion of this course students will be able to – 1) Understand the MS-Excel and working with Spreadsheet. 2) Understand the MS-Access and working with tables and forms.		
<b>Unit No</b>	<b>Descriptions</b>	<b>No. of Periods</b>	
1	<b>INTRODUCTION TO MS EXCEL:</b> Introduction to MS Excel, Features, Creating a New Worksheet, Entering and Editing Text & Numbers, Entering and Editing Formulas, Referencing Cells, Moving Cells, Copying Cells, Sorting Cell Data, Inserting Rows, Columns, Inserting Cells, Deleting Parts of a Worksheet, Auto Format, Changing Font Sizes and Attributes, Using Border Buttons and Commands, Changing Colors and Shading, Hiding Rows and Columns. Function in Spreadsheet, Date and Time, Statistical, Text. Spread sheet Charts, Creating, Printing & Deleting Charts, Linking in Spreadsheet. Spreadsheet Graphics: Creating and Placing Graphic Objects, Resizing Graphics,	15	
2	<b>INTRODUCTION TO MS ACCESS:</b> Introduction to Access, <b>Getting Started with Access:</b> Introduction to Database Templates, Creating, Saving, Opening and Closing Databases. <b>Working with Tables :</b> Data types, Creating a Table and Adding Fields, Indexing, Primary Keys and Adding Records, Using the Lookup Wizard to Create a Drop-down List, Adding Numeric Fields and Setting Data Validation Rules. <b>Datasheet View:</b> Working in Datasheet View, Sorting and Filtering in Datasheet View, Entering and Modifying Data in Datasheet View. <b>Creating Relationships:</b> Relationships, Creating a Link Table, Setting Up Relationships, Editing the Link Table. <b>Working with Forms:</b> Creating a Form with Wizard, <b>Queries:</b> Creating a Query - Query Design, Understanding Joins, Creating a Query. <b>Reports:</b> Basic Reports, Report Design.	15	
	<b>BOOKS RECOMMENDED:</b> 1. Excel 2016 for Dummies - Greg Harvey 2. Excel 2016 Bible - John Walkenbach 3. Building financial models with Microsoft Excel - K. Scott Proctor 4. Mary Anne Poatsy; Eric Cameron; Robert Grauer Exploring Microsoft Office Access 2016 Comprehensive Pearson 1st/E 5. KEVIN KELLY, CO-FOUNDER OF “Access2013 the missing manual®” WIRED Matthew MacDonald OREILLY.		

## **Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### **Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO)	16
Qu.2) Short answer questions (Any TWO out of THREE)	14
Qu.3) Write notes on (Any TWO out of FOUR)	10

### **Internal Marks Distribution:**

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

**B.Com IT Part- I (Sem.-II)**

**Marks: Semester End:40 Internal Assessment:10 Total Marks: 50**

<b>Course Code: SEC2</b>	<b>Computer Assembly &amp; Troubleshooting-II</b>	<b>Credits: 02</b>	<b>Marks : 50</b>
Course Outcomes	After completion of this course, the students will be able to- 1. Understand the Hard disk set-up and Installation process. 2. Identify the configuration and troubleshooting of external devices.		
<b>UnitNo.</b>	<b>Descriptions</b>	<b>No. of Periods</b>	
1	<b>Hard Disk Set-up and Installation:</b> Formatting of Hard disk, Partitioning of Hard disk in different logical drives, Installation of different operating systems. <b>Troubleshooting of Hard Disk:</b> Disk defragmentation, Disk clean up, Scan disk utility.	15	
2	<b>Unit 2: Configuration of External devices:</b> Physical set-up of different types of Printers, Performing test print out, Printing of document, Scanner set-up, Webcam set-up, Bluetooth device set-up, <b>Troubleshooting of External devices:</b> Troubleshooting printer and scanner problems.	15	
	<b>Books Recommended:</b> 1. PC Assembly and Installation, Dr. Tariq Hussain Sheikh, Naresh Kumar, Books clinic Publishing. 2. PC Repair and Troubleshooting Guide, Mark Edward Soper, BPB Publications 3. Book of PC Assembling by VISHNU P. SINGH 4. Computer Hardware: Installation, Interfacing, Troubleshooting and Maintenance, James, K. L. PHI Learning		

**Nature of question paper for two credit University End Semester Examination**

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

**Instructions**

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

Qu.1) Broad answer questions (Any ONE out of TWO) 16

Qu.2) Short answer questions (Any TWO out of THREE) 14

Qu.3) Write notes on (Any TWO out of FOUR) 10

**Internal Marks Distribution:****Total Marks: 10****Standard of Passing: 4 Marks (40%)**

1 Five Marks for Mid Tests.

2 Five Marks for Assignments / presentation or activity based learning/ Group exercise

(Number of students in Group are not more than six)/ Laboratory work/ Library work)

(The record of internal submission by the students should be maintain by higher educational institute for the examination of university authority if required)

<p style="text-align: center;"><b>Faculty of Commerce and Management</b>  <b>Syllabus as per National Education Policy (NEP) 2020</b>  <b>B.Com. IT Major SEMESTER – II</b>  <b>AEC-II : English for Business Communication IICredits: 2</b>  <b>Marks: Semester End:40 Internal Assessment:10 Total Marks: 50</b>  <b>Introduced from June 2024</b></p>		
<p><b>COURSE OUTCOMES:</b>  After studying this course, students will be...</p> <ul style="list-style-type: none"> <li>• Enhance their Managerial Communication at work skills set for career.</li> <li>• Familiarized with the current expected requirement of the industry.</li> <li>• Empower with professional as well as remedial of the industry.</li> </ul>		
<b>Unit No.</b>	<b>Contents</b>	<b>No. of Hours</b>
<b>I</b>	<p><b>Barriers to communication:</b></p> <ul style="list-style-type: none"> <li>▪ Physical, Semantic Language, Socio-Cultural, Psychological Barriers</li> <li>▪ Ways to Overcome these Communication Barriers</li> <li>▪ Concept of Business Ethics and its Importance</li> <li>▪ Development of positive personal attitude and SWOT analysis</li> </ul>	<b>15</b>
<b>II</b>	<p><b>Reading skills and writing skills</b></p> <ul style="list-style-type: none"> <li>▪ Principles of Effective reading</li> <li>▪ Business Letter writing</li> <li>▪ Cover letters</li> <li>▪ E- Communication.</li> </ul>	<b>15</b>

**References-**

1. Communication skills- Dr. P.L. Pardeshi, Parshwa Publication.
2. Business Communication- Varinder Kumar, Kalyani Publisher.
3. Essential of Business Communication- Rajendra Pal, Sultan chand and son.
4. Conflict management and Organisational efficiency- Dr. Sanjeet Kumar

## Nature of question paper for two credit University End Semester Examination

**Total Marks: 40**

**Standard of Passing: 16 Marks (40%)**

**Duration: 2Hrs**

### Instructions

**1. All questions are compulsory.**

**2. Figures to right indicate full marks**

**Question No: 1** **10 marks**

D) Multiple Choice Question 4 Marks

E) True or False 3 Marks

F) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

Answer limit 300-400 words

### Internal Marks Distribution:

**Total Marks: 10**

**Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>

<p style="text-align: center;"><b>Faculty of Commerce and Management</b>  <b>Syllabus as per National Education Policy (NEP) 2020</b>  <b>B.Com. IT Major SEMESTER – II</b>  <b>VEC-II : Environment Studies Credits: 2</b>  <b>Marks: Semester End:40 Internal Assessment:10 Total Marks: 50</b>  <b>Introduced from June 2024</b></p>		
<p><b>COURSE OUTCOMES:</b>  After studying this course, students will be...</p> <ul style="list-style-type: none"> <li>• Understand different types of natural resources and their conservation.</li> <li>• Aware the importance of Environmental Audit with its procedure.</li> </ul>		
Unit No.	Contents	No. of Hours
<b>I</b>	<p><b>Introduction to Natural Resources and Conservation</b>  Definition and concept of resources, types of resources, uses and values of a resource, Abiotic resources- minerals, fossil fuels, water, soil, Biotic resources - Wild animals, fisheries, domesticated animals, plants, Concept of resource conservation and its importance, Green techniques for nature conservation: Rain water harvesting, zero waste management, Concept of concept of Green roofs, Concept of Green chemistry, Phytoremediation, Construction of soak pits for domestic wastewater, Ground water recharge techniques.</p>	<b>15</b>
<b>II</b>	<p><b>Environmental Audit</b>  Definition of Environment Audit and its importance for industries. Types of audits, General audit methodology and basic structure of audit, Elements of an audit process and its importance, Types of Audits: Definitions of Signatory, a. Consumption Audit, b. Pollution audit, c. Hazardous audit, d. Solid waste audit, e. Disposal audit, f. Cost audit, g. Investment audit, h. Voluntary social audit and socio-economic surveys, Social Impact Assessment (SIA).</p>	<b>15</b>

**References:**

1. Environmental Conservation: R. F. Dasman (1968) John Wiley and Sons , New York .
2. Environmental Science , Miller T. G. Jr., Wadsworth Publishing Company.
3. Environmental Biology and Toxicology, P.D. Sharma, Rastogi Publications , Meerut 1985
4. A Handbook of EIA, V.S. Kulkarni, S.N. Kaul and R. K. Trivedi, Scientific Publication (India).



**Nature of question paper for two credit University End Semester Examination****Total Marks: 40****Standard of Passing: 16 Marks (40%)****Duration: 2Hrs****Instructions****1. All questions are compulsory.****2. Figures to right indicate full marks****Question No: 1** **10 marks**

G) Multiple Choice Question 4 Marks

H) True or False 3 Marks

I) Fill in the Blanks 3 Marks

**Question No: 2 Short Notes Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Short Answer Questions (any Two out of Four)** **10 marks**

Answer limit 150-200 words

**Question No: 3 Long Answer Questions (any one out of two)** **10 marks**

Answer limit 300-400 words

**Internal Marks Distribution:****Total Marks: 10****Standard of Passing: 4 Marks (40%)**

<i>Particulars</i>	<b>Marks</b>
<b>Attendance and ClassParticipation</b>	<b>02</b>
1. Assignments	<b>04</b>
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	<b>04 marks for any one of the given list (As per concern of subject teacher )</b>