



Estd. 1962
"A++" Accredited by
NAAC (2021)
With CGPA 3.52

**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 दुरध्वनी ०२३१-२६०९०९४



संदर्भ : जा.क्र./शिवाजी वि./अ.मं./537

दि. ०८/०९/२०२५

प्रति,

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

**विषय : बी.कॉम. (आय.टी.), भाग 1 सेमिस्टर 1 व 2 (NEP 2.0) च्या
अभ्यासक्रमातील किरकोळ दुरुस्तीबाबत.**

संदर्भ : या कार्यालयाचे पत्र 1. एसयु/बीओएस/कॉमर्स अँड मॅनेजमेंट/213
दि.10/04/2024. व 2. शिवाजी वि./अ.मं./420 दि.25/07/2024.
किरकोळ दुरुस्ती

महोदय,

उपरोक्त संदर्भित विषयास अनुसरून आपणास आदेशान्वये कळविण्यात येते की, राष्ट्रीय शैक्षणिक धोरण, 2020 (NEP 2.0) नुसार शैक्षणिक वर्ष 2024-25 पासून लागू करण्यात आलेल्या बी.कॉम. (आय.टी.) भाग 1 सेमिस्टर 1 व 2 कोर्सच्या अभ्यासक्रमामध्ये किरकोळ दुरुस्ती करण्यात आलेली आहे. सदरची दुरुस्तीचा अभ्यासक्रम शैक्षणिक वर्ष, 2025-26 पासून लागू राहील. सोबत सदर अभ्यासक्रमाची प्रत जोडली आहे. तसेच विद्यापीठाच्या 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. एस. एम. कुबल)
उपकुलसचिव

प्रत :

1. मा. प्र.अधिष्ठाता, वाणिज्य व व्यवस्थापन विद्याशाखा
2. मा. अध्यक्ष, सर्व अभ्यास मंडळे, वाणिज्य व व्यवस्थापन विद्याशाखा
3. मा. संचालक, परीक्षा व मूल्यमापन मंडळ कार्यालयास.
4. मा. संचालक, दूरस्थ व ऑनलाईन शिक्षण केंद्र.
5. परीक्षक नियुक्ती ए व बी विभागास.
6. बी.कॉम परीक्षा विभागास.
7. संगणक केंद्र/आय. टी. सेल विभागास.
8. पात्रता विभागास/आय.क्यु.ए.सी. विभागास
9. संलग्नता टी 1 व टी 2 विभागास

माहितीसाठी व पुढील योग्य त्या कार्यवाहीसाठी

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 1 सेमिस्टर 1 व 2 (NEP 2.0) कोर्सच्या अभ्यासक्रम बाबत.

संदर्भ : या कार्यालयाचे पत्र एसयु/बीओएस/कॉमर्स अँड मॅनेजमेंट/213
दि.10/04/2024.

महोदय,

उपरोक्त संदर्भित विषयास अनुसरून आपणास आदेशान्वये कळविण्यात येते की, राष्ट्रीय शैक्षणिक धोरण, 2020 (NEP 2.0) नुसार शैक्षणिक वर्ष 2024-25 पासून लागू करण्यात आलेल्या बी.कॉम. (आय.टी.), भाग 1 सेमिस्टर 1 व 2 कोर्सच्या अभ्यासक्रमामध्ये किरकोळ दुरुस्ती करण्यात आलेली आहे. सोबत सदर अभ्यासक्रमाची प्रत जोडली आहे. तसेच विद्यापीठाच्या 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 :

1. मा. अधिष्ठाता, वाणिज्य व व्यवस्थापन विद्याशाखा
2. मा. अध्यक्ष, सर्व अभ्यास मंडळे, वाणिज्य व व्यवस्थापन विद्याशाखा
3. मा. संचालक, परीक्षा व मूल्यमापन मंडळ कार्यालयास.
4. मा. संचालक, दूरस्थ व ऑनलाईन शिक्षण केंद्र.
5. परीक्षक नियुक्ती ए व बी विभागास.
6. बी.कॉम. परीक्षा विभागास.
7. संगणक केंद्र/आय. टी. सेल विभागास.
8. नॅक विभागास
9. पी.जी. सेमिनार विभागास
10. पात्रता विभागास
11. संलग्नित टी 1 व टी 2 विभागास

माहितीसाठी व पुढील योग्य त्या कार्यवाहीसाठी



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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 (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)

Shivaji University, Kolhapur
Bachelor of Commerce (B.Com. Information Technology (IT))
Under the Faculty of Commerce and Management
(Structure, Syllabus, Rules and Regulations in accordance with National Education Policy)
With effect from Academic Year 2024-25

1. Implementation of Revised guidelines and rules:

The revised guidelines and rules shall be implemented gradually as mentioned below:

Level	Programme		Part-I/II/III/IV	From Academic Year
Undergraduate Programme:				
Level 4.5	Undergraduate Certificate (One year Or two semesters)		B.Com. Information Technology (IT) Part-I	2024-25
Level 5.0	Undergraduate Diploma (Two years or four semesters)		B.Com. Information Technology (IT) Part- II	2025-26
Level 5.5	Bachelor's Degree (Three years or six semesters)		B.Com. Information Technology (IT) Part-III	2026-27
Level 6.0	Bachelor's Degree with Honors/Research (Four years or eight Semesters)		B.Com. Information Technology (IT) Part-IV	2027-28

(If the candidate wants to exit after a certain level, the Awards after completing specific level will be: Undergraduate Certificate in Commerce, Undergraduate Diploma in Commerce, B.Com. Information Technology (IT) and B.Com. Information Technology (IT) (Hon./Research) for Level- 4.5, Level-5.0, Level-5.5 and Level- 6.0 respectively. Other provisions for multiple entry and exit as per the university's rules and regulations are applicable).

Note: The guidelines given with reference to circular No.328 dated on 12.6.2024 of Shivaji University will be applicable for this under-graduate program.

2. Eligibility Criteria:

The eligibility of students taking admission at B.Com. Information Technology (IT) Part-I [Level 4.5] (initial entry) and the eligibility of students making lateral entry (Multiple Entry- ME) admission at Level 5.0/ Level 5.5/ Level 6.0 are required to be scrutinized (with stipulated procedure) on the basis of following criteria:

- a. Eligibility requirements for admission to B.Com. Information Technology (IT) Part-I (Level 4.5):
 - i. The students passing the Higher Secondary School Certificate Examination with Commerce/ Arts/ Science stream or Vocational subjects with any stream conducted by the Maharashtra State Board of Higher Secondary Education shall be allowed to enter upon the B.Com. Information Technology (IT) Part-I (or Undergraduate Certificate in Information Technology (IT)).

OR

- ii. An Examination of any other Statutory University or an examining Body recognized as equivalent there to.
 - iii. No candidate shall be allowed to appear the B.Com. Information Technology (IT) Part-I (or Undergraduate Certificate in Information Technology (IT)) Examination unless the candidate has satisfactorily kept two terms for the programme at a college affiliated to this University/ university department.
- b. Eligibility requirements for admission to B.Com. Information Technology (IT) Part-II (Level 5.0):
- i. The students passing the B.Com. Information Technology (IT) Part-I (or Undergraduate Certificate in Commerce) shall be allowed to enter upon the B.Com. Information Technology (IT) Part-II (or Undergraduate Diploma in Information Technology (IT)).

OR

- ii. An Examination of any other Statutory University or an examining Body recognized as equivalent thereto.
 - iii. No candidate shall be allowed to appear the B.Com. Information Technology (IT) Part-II (or Undergraduate Diploma in Information Technology (IT)) Examination unless the candidate has satisfactorily kept two terms for the programme at a college affiliated to/ university department of this University or any other recognized university.
- c. Eligibility requirements for admission to B.Com. Information Technology (IT) Part-III (Level 5.5):
- i. The students passing the B.Com. Information Technology (IT) Part-II (or Undergraduate Diploma in Information Technology (IT)) shall be allowed to enter upon the B.Com. Information Technology (IT) Part-III (or Three Year Undergraduate Degree in Information Technology (IT)).

OR

- ii. An Examination of any other Statutory University or an examining Body recognized as equivalent thereto
 - iii. No candidate shall be allowed to appear the B.Com. Information Technology (IT) Part-III (or Three- Year Undergraduate Degree in Information Technology (IT)) Examination unless the candidate has satisfactorily kept two terms for the programme at a college affiliated to/ university department of this University or any other recognized university.
- d. Eligibility requirements for admission to B.Com. Information Technology (IT) Part-IV (Level 6.0):
- i. The students passing the B.Com. Information Technology (IT) Part-III (or Three-Year Undergraduate Degree in Information Technology (IT)) with 7.5 CGPA or 75% marks in Three-Year Undergraduate Degree in Information Technology (IT) shall be allowed to enter upon the B.Com. Information Technology (IT) Part-IV (or Four-Year Undergraduate Degree in Information Technology (IT) with Honors/ Honors with Research).

OR

- ii. An Examination of any other Statutory University or an examining Body recognized as equivalent thereto.
- iii. No candidate shall be allowed to appear the B.Com. Information Technology (IT) Part-IV (or Four-Year Undergraduate Degree in Information Technology (IT) with Honors/ Honors with Research) Examination unless the candidate has satisfactorily kept two terms for the

programme at a college affiliated to/ university department of this University or any other recognized university.

Eligibility Application requirement:

- a. Students who are seeking admission for Level 4.5 need to apply for eligibility.
- b. Students who are not taking any exit from the programme at any level and students re-entering after taking exit, need not require to make application for eligibility at Level 5.0, 5.5 and 6.0.
- c. However, students from other university who wish to seek admission for any level of undergraduate degree need to apply for eligibility.

Rules for Multiple Exit:

- a. If a student wishes to exit after completion of Level 4.5, he/she has to complete additional four credit skill course/ internship.
- b. If a student wishes to exit after completion of Level 5.0, he/she has to complete additional four credit skill course/ internship.
- c. If a student wishes to exit after completion of Level 5.5, he/she need not require to complete any additional skill course/ internship.

3. **Pattern of B.Com. Information Technology (IT) Programme:**

Combination of internal assessment and semester- end examination for B.Com. Information Technology (IT) will be 40:10 pattern shall be applicable for each course of 2 credits and 80:20 pattern shall be applicable for each course of 4 credits. Here, each course in each semester where in 80% marks shall be for University Semester-end- examination and 20% marks for internal assessment except Environmental Studies, Co-Curricular Activities (CC), Field Project (FP), On Job Training (OJT) and Research Project (RP).

4. **Weightage:**

There shall be Three Year B.Com. Information Technology (IT). Programme with 132 credits. The candidate wishes to attempt for Four Year B.Com. Information Technology (IT). (Hon./Research) may opt for 4th year which will have 44 credits, hence, Four Year B.Com. Information Technology (IT) Programme will require 176 credits. (Please refer the university regulations and structure of the programme for details).

5. **Credit distribution chart for B.Com. Information Technology (IT) Programme:**

For III year B.Com. Information Technology (IT) Programme

Course Name	Code	Total Credits	% of Total Credits
Major			
Major Mandatory (MM)	MM	46	33.33
Major Elective (ME)	ME	08	6.06
Vocational Skill Courses (VSC)	VSC	08	3.03
On Job Training (OJT)	OJT	04	3.03
Field Project (FP)	FP	02	1.52
Indian Knowledge System	IKS	02	1.52
Community Engagement Programme	CEP	02	1.52
Major Total Credits	-	72	54.55

Minor	MINOR	20	15.15
Open Elective (OE)/ Generic Elective (GE) Courses	OE/GE	12	9.09
Ability Enhancement Courses	AEC	08	10.61
Value Education Courses	VEC	06	
Skill Enhancement Courses	SEC	06	10.61
Co-Curricular Courses (NSS/NCC/Sports/Cultural Activities)	CC	08	
TOTAL		132	100%

For IV year B.Com. Information Technology (IT) Programme:

Course Name	Code	Total Credits	% of Total Credits
Major			
Major Mandatory	MM	74	42.05
Major Elective	ME	16	9.09
Vocational Skill Courses	VSC	08	4.55
On Job Training	OJT	08	4.55
Field Project	FP	02	1.14
Research Projects*	RP	12	6.82
Indian Knowledge System	IKS	02	1.14
Community Engagement Programme	CEP	02	1.14
Major Total Credits		112	63.64
Minor		20	11.36
Research Methodology		4	2.27
Open Elective/ Generic Elective Courses	OE/ GE	12	6.82
Ability Enhancement Courses	AEC	08	7.95
Value Education Courses	VEC	06	
Skill Enhancement Courses	SEC	06	7.95
Co-Curricular Courses (NSS/NCC/Sports/Cultural Activities)	CC	08	
TOTAL		176	100%

* For honors degree with research, research project (12 credit) is applicable and for honors degree, two courses (4 credits each) related to major and OJT (4 credits) are incorporated.

6. Scheme of Examination:

The outline for continuous internal assessment activities and semester-end examination for B.Com. Information Technology (IT) has been provided along with the Question paper pattern and mark distribution in each Semester for each theory course (paper) for B.Com. Information Technology (IT) (all Semesters) of 4 credits and 2 credits.

Internal Assessment Process shall be as follows:

- a. The Internal Assessment should be conducted after completing 50% of syllabus of The course/s.
- b. In case a student has failed to attend internal assessment on scheduled date, it shall be deemed that the student has dropped the test. However, in case of student who could not take the test on scheduled date due to genuine reasons, such a candidate may appeal to the Programme Co-ordinator/Principal/Head of the Department. The Programme coordinator/Principal/Head of the Department in consultation with the concerned teacher shall decide about the genuineness of the case and decide to conduct special test to such candidate on the date fixed by the concerned teacher but before commencement of the concerned semester- end examination.

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

7. Ordinances regarding the examination:

O. B.Com. Information Technology (IT). 2, 3 and 4 shall prevail.

8. Duration of Semester-end Examination for each course:

The duration* of Semester-end Examination for each theory course would be as follows:

Particulars	4 Credit Course	2 Credit Course
1. Marks	80	40
2. Duration	3 hours	2 hours

* Excluding Environmental Studies which shall be of 1 hours for 35 marks.

9. Equivalence of papers and chances for the students in previous-Semester pattern:

Two additional chances shall be provided for the repeater students of old three-year B.Com. Information Technology (IT) immediate after their Semester-VI or VIII. After that the students concerned shall have to appear for the Examination as per this revised pattern. Equivalence of papers shall be provided as per revised syllabus for the pattern in accordance with NEP.

10. Standard of Passing:

The Standard of passing shall be 40%. For B.Com. Information Technology (IT) (all Semesters) the student shall have to score as per this standard of passing shown in the following table:

Maximum Marks	100	80	50	40	20	10
Minimum Marks required for Passing	40	32	20	16	8	4

There shall be a separate head of passing in Theory and Internal Examination. However, ATKT rules shall be made applicable in respect of Theory courses (University examination) only. For Environmental Studies (Semester IV, Examination) the student shall have to score marks 13 marks out of 35 in theory course and 5 marks out of 15 for project work.

Graduation Chart:

Marks Obtained	Numerical Grade (Grade Point)		CGPA	Letter Grade
Absent	0(zero)		-	-
0 – 34	0 to 4		0.0 – 4.99	F(Fail)
35 – 44	5		5.00 – 5.49	C
45 – 54	6		5.50 – 6.49	B
55 – 64	7		6.50 – 7.49	B+
65 – 74	8		7.50 – 8.49	A
75 – 84	9		8.50 – 9.49	A+
85 – 100	10		9.50 – 10.0	O (Outstanding)

Note:

1. Marks obtained ≥ 0.5 shall be rounded off to next higher digit.
2. The SGPA & CGPA shall be rounded off to 2 decimal points.

Calculation of SGPA & CGPA:

1. Semester Grade Point Average (SGPA)

SGPA = Course Credits * Grade points obtained of a semester / Total Credits of respective semester

2. Cumulative Grade Point Average (CGPA)

CGPA = Total Credits of respective semester * SGPA of a respective semester / Total Credits of all semester

11. Result - The result of each semester shall be declared as Pass or Fail with grade/grade points.
12. Revised Rules - These revised rules shall be gradually implemented with effect from the academic year 2024-25 for B.Com. Information Technology (IT) Degree programme. However the existing (i.e. pre-revised) rules shall remain in force for the students of old semester pattern during the transition period.

Rules for B.Com. Information Technology (IT) Programme:**1 R.B.Com. Information Technology**

The Three Year B.Com. Information Technology (IT) Programme shall consist of 6 semesters which will have 132 credits all together. However, the candidate wishes to attempt for Four Year B.Com. Information Technology (IT) (Hon./Research) may opt for 4th year which will have 44 credits, hence, Four Year B.Com. Information Technology (IT). Programme will require 176 credits. (Please refer the university regulations and structure of the programme for details).

Examination shall be held at the end of each semester.

2 R.B.Com. Information Technology (IT)

Structure of B.Com. Information Technology (IT) Programme is given along with syllabus as shown below:

Structure- I for B.Com. Information Technology (IT) Semester I&II

Structure - II for B.Com. Information Technology (IT) Semester III &IV

Structure - III for B.Com. Information Technology (IT) Semester V& VI

Structure-IV for B.Com. Information Technology (IT) Semester VII & VIII

3 R.B.Com. Information Technology (IT)

The List of courses which are included in the structure of B.Com. Information Technology (IT) Programme is also given along with syllabus of the respective syllabus.

- i) For B.Com. Information Technology (IT) Semester I & II
- ii) For B.Com. Information Technology (IT) Semester III & IV
- iii) For B.Com. Information Technology (IT) Semester V& VI
- iv) For B.Com. Information Technology (IT) Semester VII &VIII

4 R.B.Com. Information Technology (IT)

A) Value Education Courses (VEC):

For Semester I and Semester II, there shall be Value Education Courses which are as follows:

Semester I: VEC-I: Democracy, Elections and Indian Constitution Semester IV: VEC-II: Environmental Studies

B) Skill Enhancement Courses (SECs):

For Semester I , II, III, IV ,there shall be Skill Enhancement Courses which are as follows:

Semester I: SEC-I: 2 credits Semester II: SEC- II: 2 credits

Semester III: SEC-III: 2 credits Semester IV: SEC- IV: 2 credits

5 R.B.Com. Information Technology (IT)

Equivalence of papers and chances for the students in previous- Semester pattern:

Two additional subsequent chances shall be provided for the repeater students of old B.Com. Information Technology (IT) Part I- Semester I & II in the immediate next two sessions. After this, the students concerned shall have to appear for the Examination as per this revised syllabus. Equivalence of papers shall be provided as per revised syllabus for this pattern according to NEP 2020.

6 R.B.Com. Information Technology (IT)

The detailed syllabus for the various courses under this pattern shall be as shown in the appendix and shall be subject to such revision, modification etc. as may be made by the Academic Council from time to time on the recommendation of the Boards of Studies in different courses. The text-books and reference books for the various course shall be those as prescribed by the Academic Council from time to time on the recommendations of the respective Boards of Studies.

7 R.B.Com. Information Technology (IT)

The medium of instruction for the Three Year (Six Semester) B.Com. Information Technology (IT) / Four Year B.Com. Information Technology (IT). Degree Programme is English. A candidate shall not

have an option of answering question papers at B.Com. Information Technology (IT) Examination will be in English for all courses.

8 R.B.Com. Information Technology (IT)

- i. The Principal of the college may permit a student to change his/her major and minor subjects in the first term only before submission of dully filled University Examination form.
- ii. If a candidate wishes to change the major elective course (subject) at the B.Com. Information Technology (IT) Semester V examination, student will have to keep one additional term for the changed course (subject).
- iii. If a candidate fails in the major elective course (subject) at the B.Com. Information Technology (IT) Semester- V & VI examination and wish to change major elective course (subject), student will have to keep two additional terms for the changed course (subject).

9 R.B.Com. Information Technology (IT)

The Principal of the college has to certify the attendance and the examination form of the candidate as per the Ordinance O. 31 and O. 37. A candidate has to submit University examination form as per the schedule and dates prescribed by the University for every Examination.

10 R.B.Com. Information Technology (IT)

The Scheme of the Physical Education has been made operative for B.Com. Information Technology (IT) Part I. The benefit of marks, obtained by the students in Physical Education Tests (of 10 marks) conducted by the University authorities shall be as under:

1. If a student fails in up to four heads of passing (or courses having 16 credits) of University examination (Theory / Practical) and having passed in all the remaining heads of passing, the marks obtained by him in the Physical Education Test shall be added to maximum up to four heads of passing in which he has failed as the case may be.
A student getting the benefit of Physical Education marks should not be given advantage of any other Ordinance. The Physical Education Marks shall not be considered for the award of Class and for deciding merit.
2. If as a result of addition of Physical Education marks a student does not pass the examination the marks obtained by him in Physical Education shall not be considered.
3. The marks of Physical Education obtained by the unsuccessful students at the B.Com. Information Technology (IT) Part-I semester Examination shall be carried forward for their subsequent attempt/s.
4. The marks obtained in Physical Education shall not be considered for earning exemption in a subject of head of passing, but the marks will be carried forward for availing the benefit at the subsequent attempts.
5. The marks secured by the students under the Physical Education scheme shall be added to the total of his marks in the Examination irrespective of the fact of his passing or failure in the examination. The Physical Education marks shall be shown as “Total + P. E. Marks”.
6. The Physical Education Test shall be conducted in the Second Semester.

11 R.B.Com. Information Technology (IT)

All Semester-end Examinations for B.Com. Information Technology (IT) Part- I, II, III and IV shall be held twice in a year in two sessions i.e. April /May and October/November.

12 R.B.Com. Information Technology (IT)

- a) A candidate desires to seek B.Com. B. A. Degree in another elective course (ME), shall be permitted to do so. Such candidate may appear at B.Com. B. A. Semester V & VI Examination on the submission for fresh admission. Such a candidate need not appear again for courses other than ME.
- b) The Candidate as above (in clause 'a') shall not be eligible for a second degree and a class, a prize, scholarship, medal or any other award. The candidate will get the benefit of new degree in new course (subject) only if candidate surrenders his first degree.

13 R.B.Com. Information Technology (IT)

- a) The result of the B.Com. Information Technology (IT) Semester I & II examination shall be declared publicly in two categories
 - i. candidates who have passed the B.Com. Information Technology (IT) Semester- I & II examination and
 - ii. candidates who are allowed to proceed to the B.Com. Information Technology (IT) Semester- III & IV.
- b) The result of the B.Com. Information Technology (IT) Semester III & IV examination shall be declared publicly in two categories.
 - i. candidates who have passed the B.Com. Information Technology (IT) Semester-III & IV examination in addition to the remaining papers, if any of previous examination,
 - ii. candidates who are allowed to proceed to the next Semester
- c)
 - i. If a candidate fails in all the courses (subject heads) of passing of Semester-I shall be allowed to proceed to Semester II.
 - ii. If a candidate fails in all the courses (subject heads) of passing of Semester-III shall be allowed to proceed to Semester-IV.
 - iii. If a candidate fails in all the courses (subject heads) of passing of Semester-V shall be allowed to proceed to Semester-VI.
 - iv. No candidate shall be allowed to proceed to Semester- V unless candidate has cleared Semester-I & II in all courses (Subjects).
 - v. ATKT rules are applicable for 2nd and 4th Sem.
- d) Rules of ATKT made in university time to time will be applicable.

14 R.B.Com. Information Technology (IT)

- A) The Results of the Examination will be declared on the basis of marks obtained, Grade points obtained, Credit points, Status, Percentage of marks, Result, SGPA & CGPA with numerical grade point and letter grade. The list of Courses, course code, Paper number of programme, numerical grade & letter grade table and calculation of SGPA and CGPA table shall be mentioned on the backside of mark-sheet.

- B) In case of Three-Year B.Com. Information Technology (IT) Degree, the result of B.Com. Information Technology (IT) Program (Semester-I to VI) shall be declared in Grades by considering SGPA & CGPA (with percentage) based on the performances of all the courses at respective semesters. The award of scholarships and prizes for the B.Com. Information Technology (IT). Program shall be determined on the basis of the aggregate performance of the candidate at Semester-I to VI examination.
- C) In case of Four-Year B.Com. Information Technology (IT) Degree, the result of B.Com. Information Technology (IT). Program (Semester-I to VIII) shall be declared in Grades by considering SGPA & CGPA (with percentage) based on the performances of all the courses at respective semesters. The award of scholarships and prizes for the B.Com. Information Technology (IT). Program shall be determined on the basis of the aggregate performance of the candidate at Semester-I to VIII examination.

15 R.B.Com. Information Technology (IT)

Standard of Passing:

- A) To pass the B.Com. Information Technology (IT) degree Examination, a candidate shall be required to pass in Semester I, II, III, IV, V & VI Examinations.
 - a) To pass the each semester of B.Com. Information Technology (IT) Semester-I & II Examination ,a candidate shall be required to obtain a minimum of 40% of the total marks in each head of passing i.e. 20 marks out of 50 and 40 marks out of 100.
 - b) To pass each Semester of the B.Com. Information Technology (IT) Semester-II & IV Examination, a candidate shall be required to obtain a minimum of 40% of the total marks in each head of passing i.e. 20 marks out of 50 (except Environmental Studies).
 - c) For Environmental Studies, a candidate shall be required to obtain minimum 13 marks out of 35 for theory paper examination & minimum 5 marks out of 15 for Project work. There shall be separate head of passing for Theory and Project work examinations.
 - d) To pass each Semester Examination a candidate shall be required to obtain a minimum of 40% of the total marks.
 - e) A Candidate shall have to obtain 14 marks out of 40 for university examination i.e. theory and 4 marks out of 10 in the internal examination in Semester- V & VI. If the candidate fails/absent in internal examination then candidate has to pass the internal examination, the provision in the university regulations 2022 is applicable.
- B) For Three Year B.Com Information Technology (IT) Degree: Those of the successful candidates who obtain 45% or more of the aggregate marks in Parts-I, II& III semester Examinations, (i.e. Semester-I to VI aggregate) shall be declared to have passed the B.Com. Information Technology (IT) Degree Examinations in Second Class and those obtaining 60% or more of the aggregate marks in Parts-I, II & III Examinations (i.e. Semester-I to VI aggregate) shall be declared to have passed the B.Com. Information Technology (IT) Degree Examinations in First Class and those obtaining 70% or more of the aggregate marks in Parts-I, II & III (i.e. Semester- I to VI aggregate) shall be declared to have passed the B.Com. Information Technology (IT) Degree Examination in First Class with Distinction.
- C) For Four Year B.Com. Information Technology (IT) with (Hon./Research) Degree: Those of the successful candidates who obtain 45% or more of the aggregate marks in Parts-I, II, III & IV

Semester Examinations, (i.e. Semester-I to VIII aggregate) shall be declared to have passed the B.Com. Information Technology (IT) with (Hon./Research) Degree Examinations in Second Class and those obtaining 60% or more of the aggregate marks in Parts-I, II, III & IV Semester Examinations, (i.e. Semester-I to VIII aggregate) shall be declared to have passed the B.Com. Information Technology (IT) with (Hon./Research) Degree Examinations in First Class and those obtaining 70% or more of the aggregate marks in Parts-I, II, III & IV Semester Examinations, (i.e. Semester-I to VIII aggregate) shall be declared to have passed the B.Com. Information Technology (IT) with (Hon./Research) Degree Examination in First Class with Distinction.

D) A.T.K.T.: ATKT rules as per the university Regulations will be applicable.

16 R.B.Com. Information Technology (IT)

A candidate who has satisfactorily completed all courses at Semester-I of B.Com. Information Technology (IT) of the Universities in the State of Maharashtra shall be allowed to join for the Semester II of the B.Com. Information Technology (IT) Programme in this university. However, a candidate who has satisfactorily kept one term in any of the Universities in the State of Maharashtra for B.Com. Information Technology (IT) Semester-I examination shall not be allowed to join for the Semester II of the B.Com. Information Technology (IT) Programme in this university unless and until the candidate has to clear all the courses (papers) of Semester-I from that university.

17 R.B.Com. Information Technology (IT)

- a) A candidate passing Part-I or II Semester Examinations of the B.Com. Information Technology (IT) Degree Programme of other Statutory Universities in State of Maharashtra can take admission to next semester of Shivaji University and the marks of earlier semesters of previous Statutory University be converted in proportion to Shivaji University, Marks structure and grades be awarded accordingly.
- b) Multiple entry and exit rules as per university Regulations 2022 and Academic Bank of Credit Regulations are applicable.

18 R.B.Com. Information Technology (IT)

Exemption of courses (subjects):

- a) A candidate who wishes to admit for B.Com. Information Technology (IT) and already passed Bachelor of Arts and Bachelor of Science of this University with English, Marathi or Kannada or Urdu or Hindi courses (subjects) are not necessary to appear B.Com. Information Technology (IT) Examination again for same subject.
- b) A candidate claiming exemptions as stated above shall not be eligible for a Class, however a candidate appearing for all the courses (papers) of B.Com. Information Technology (IT) Semester-I to VI shall be eligible for a class.
- c) However, the above mentioned rule shall not be applicable for other University student, unless that HEI is registered on ABC portal.
- d) (Note: The concessions given above are on reciprocal basis).

19 R.B.Com. Information Technology (IT)

Eligibility of Teachers:

The eligibility of teachers will be as per the regulations issued by UGC and GRs of Government of Maharashtra and rules of the university. However, following rules are applicable to eligibility of teachers for teaching at B. Com. Information Technology (IT) Programme:

- a) The teachers in Commerce (appointed as Assistant Professor/ Associate Professor/ Professor) are eligible to teach all courses under DSCs of Business Administration, Business Studies, Banking, Cooperation and Rural Development; OEs (made available to B. A./ B. Sc. Students); courses under SEC such as Marketing Skills, Insurance Skills, Managerial Skills, Communication Skills, Soft Skills, Applied banking, Practical banking, IKS-Generic and VEC Democracy, Election and Indian Constitution. If they have completed their specialization in Advanced Accountancy at post-graduation, they are also eligible to teach all courses of DSCs of Accountancy, Tax Management and Cost Accounting and SECs related to Accounting Skills. If they have completed their specialization in Cost Accounting/ Costing at post-graduation, they are also eligible to teach all courses of DSCs of Cost Accounting and Tax Management and SECs related to Costing/ Cost Accounting Skills. If they have completed their specialization in Business Statistics/ Statistics at post-graduation, they are also eligible to teach all courses of DSCs of Business Statistics.
- b) The teachers in Accountancy (appointed as Assistant Professor/ Associate Professor/ Professor) are eligible to teach all courses under DSCs of Accountancy, Business Administration, Business Studies, Cost Accounting, Tax Management, Banking, Cooperation and Rural Development; OEs (made available to B. A./ B. Sc. Students); courses under SEC such as Marketing Skills, Insurance Skills, Managerial Skills, Accounting Skills, Communication Skills, Soft Skills, Applied banking, Practical banking, IKS-Generic and VEC- Democracy, Election and Indian Constitution.
- c) The teachers in Economics/ Business Economics (appointed as Assistant Professor/ Associate Professor/ Professor) are eligible to teach all courses under DSCs of Business Economics, Banking, Cooperation and Rural Development; OEs such as Indian Economy-I & II (made available to B. A./ B. Sc. Students) and SECs in Applied Banking and Practical Banking, IKS-Generic and VEC- Democracy, Election and Indian Constitution.
- d) The teachers in Statistics/ Business Statistics (appointed as Assistant Professor/ Associate Professor/ Professor) are eligible to teach all courses under DSCs of Business Statistics; OEs (made available to B. Com. Students); SECs related to Statistics, IKS-Generic and VEC- Democracy, Election and Indian Constitution.
- e) The teachers in English (appointed as Assistant Professor/ Associate Professor/ Professor) are eligible to teach all courses under AEC English for Business Communication; OEs (made available to B. Com. Students); SECs such as Communication Skills and Soft Skills, IKS-Generic and VEC- Democracy, Election and Indian Constitution.
- f) However, for teaching SECs, IKS and VECs, teachers need to take syllabus-specific- training.

Qualification Descriptors for B. Com. Information Technology (IT)

The qualification descriptors suggest the generic outcomes and attributes to be obtained while obtaining the degree of B. Com. Information Technology (IT). These parameters are expected to be attained and demonstrated by the students after becoming graduates of this programme. The HEI should consider the below- mentioned parameters at the time of assessing the learning of various courses for B. Com. Information

Technology (IT). The learning experiences and assessment procedures, thereby are so designed that every graduate in Information Technology (IT) may achieve the programme learning outcomes with equal opportunity irrespective of class, gender, community, and region. Each graduate in Information Technology (IT) should be able to:

- 1) Demonstrate extensive and coherent knowledge of commerce with Information Technology (IT) and its applications in real business world;
- 2) Understanding of various concepts and theories providing strong academic foundation;
- 3) Demonstrate educational skills in areas of Information Technology (IT) and several other branches of Commerce;
- 4) Acquire various soft skills (like communication, organizing, and analytical) required to manage complete business situation as well as life situations;
- 5) Apply knowledge, understanding, and skills to identify the difficult/unsolved problems in rapidly changing environment and to collect the required information from possible range of sources and try to analyse and assess these problems using appropriate methodologies;
- 6) Fulfil one's learning requirements to provide an insight of research in Information Technology (IT) and interdisciplinary areas while seeking research pursuits;
- 7) Apply one's disciplinary knowledge and transferable skills to new/unfamiliar contexts, rather than replicate curriculum content knowledge, to identify and analyse problems and issues and solve complex problems with well-defined solutions;
- 8) Good value systems leading to high ethical and moral conduct in society at large;
- 9) Competencies and attitudes;
- 10) Values.

Programme Learning Outcomes of B. Com.:

The outcomes and attributes described in qualification descriptors are attained by students through learning acquired on completion of a programme of study. The term 'programme' refers to the entire scheme of study followed by students leading to a qualification. Programme learning outcomes for B. Com. Information Technology (IT) include various subject specific skills and generic skills like management, creativity, and innovation of competencies in diverse areas of Commerce and Information Technology (IT), the achievement of which will be demonstrated by the students of B. Com. Information Technology (IT) Programme for the award of bachelor degree. The programme learning outcomes of B. Com. Information Technology (IT) also enable a student to prepare for further study, employment, and good citizenship. Further, the difference in the level of achievement of programme outreach provides for comparing of learning levels and standards across different college/institution. The various learning outcomes of the programme are mentioned below:

- 1) Bachelor's Degree in Commerce with Information Technology (IT) results in giving comprehensive knowledge of Programing, Web development, Management and several other branches of Information Technology (IT) that includes database, system development and security. Thus, this programme helps students in building a concrete footing for advanced studies in Information Technology (IT) and to stand with the requirement of business sector, insurance and banking seeking youth fit for employment.
- 2) Students undergoing this programme will be equipped to the world of work, particularly, work of the future. The student will get a first-hand exposure of working in the real world.

- 3) Students completing this programme will be able to develop managerial knowledge and tactical dexterity, with a broader skill set and encourages them to seek out audacious, innovative solutions for today's business.
- 4) Completion of this programme will also enable the students to formulate business problems and provide innovative solutions thus, moulding them into future visionaries, management leaders that are compassionate yet efficient.
- 5) The course provides an extreme and rigorous base for teaching, research, and allied business administration.

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
1 4.5		Mandatory DSC	Elective DSE (Choose any one from Pool of Courses)	(Choose any One from pool of courses from same Discipline)	(Choose One course from each Basket of other Disciplines or Faculty)	(Choose any One from pool of Major)				
	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) Welcoming Diversity for Building Society: Democracy, Constitution and Election	CC 2: (2) (NSS/NCC/ Sports/Culture/ Health Wellness/ Fitness/Yoga/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) Programming with C++ DSC8: (4) Accounting with Tally DSC9:(2) Lab on DSC7	--	DSM2: (4) Fundamental of Entrepreneurship	OE5: (2) Statistics P-I/ Rural Development P-I / Agricultural Economics P-I	VSC3: (2) Web Technology-I	AEC3: (2) Communication and Soft Skills P-I	CEP1: (2) Community Engagement Project CC3: (2) (NSS/NCC/ Sports/Culture/ Health Wellness/ Fitness/Yoga/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 Technology-II	AEC4: (2) Communication and Soft Skills P-II VEC3: (2) (Env. Studies)	CC4: (2) (NSS/NCC/ Sports/Culture/ Health Wellness/ Fitness/Yoga/Etc..	22	
	Cum. Cr	28	--	10	12	12	16	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 DSC13	DSE1: (4) 1. Block Chain Technology 2. Web Application Security 3. Network Security	DSM4:(4) Co-operative Development DSM5: (2) Income-tax	--	VSC4: (2) Web Technology -III	--	FP1: (2) Field Project	22	UG Degree 132
	VI	DSC16: (4) Java Programming DSC17: (4) Foundations of Linux DSC18: (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	16	16	132	
Exit Option: Award of UG Diploma in Major with 132 credits or Continue with Major and Minor										

4 6.0	VII	DSC19: (4) Web Technology using PHP DSC20: (4) Software Engineering and Project Management DSC21: (4) Emerging Trends in Information Technology DSC22: (2) Lab Work on DSC19	DSE3: (4) 1. Information Technology for Management 2. Management Information System 3. Strategic IT Management	RM1: Research Methodology (4)	--	--	--	--	22	UG Honors Degree 176
	VIII	DSC23: (4) Introduction to Python Programming DSC24: (4) Emerging trends in Web Technology DSC25: (4) Mobile Computing DSC26: (2) Lab Work on DSC23	DSE4 (4) 1: Digital Marketing 2: Financial Technologies 3: Enterprise Resource Planning	--	--	-	--	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 6.0	VII	DSC19: (4) Web Technology using PHP DSC20: (4) Software Engineering and Project Management DSC21: (2) Lab Work on DSC20	DSE3: (4) 1. Information Technology for Management 2. Management Information System 3. Strategic IT Management	RM 1: (4) Research Methodology	--	--	--	RP1: (4) Research Project	22	UG Honors with Research Degree 176
	VIII	DSC22: (4) Introduction to Python Programming DSC23: (4) Emerging trends in Web Technology DSC24: (2) Lab Work on DSC22	DSE4: (4) 1. Digital Marketing 2. Financial Technologies 3. Enterprise Resource Planning	--	--	-	--	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

Course Code:DSC1	Programming in C- Part I	Credits:02	Marks: 50
Course Outcomes	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.		
Unit No.	Descriptions	No. of Periods	
1	C Programming Basics: 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. Types of operators: Arithmetic, relational, logical, compound assignment, increment and decrement, conditional or ternary, bitwise and comma operators. Precedence and order of evaluation, statements and Expressions.	15	
2	Control statements and Arrays: (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. Arrays: (One and two dimensional), declaring array variables, initialization of arrays, accessing array elements. Data Input and Output functions: Character I/O format: getch(), getche(), getchar(), getc(), gets(), putchar(), putc(), puts(). Manipulating Strings: Declaring and initializing String variables, Character and string handling functions.	15	
	Books Recommended: 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

Course Code: DSC2	Fundamentals of Information Technology	Credits: 02	Marks : 50
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.		
UnitNo.	Descriptions	No. of Periods	
1	Introduction to Information Technology- • Definition and meaning of Information Technology • Characteristics of Computer • Generation of computers • Types of computer • Block diagram • Input- output devices • Memory, types of memory • Storage devices	15	
2	Number Systems and Logic Gates- Number System – • Definition • Types of Number System ○ Decimal number system (Base- 10) ○ Binary number system (Base- 2) ○ Octal number system (Base-8) ○ Hexadecimal number system (Base- 16) • Number System Conversion • Computer Codes - : BCD, EBCDIC, ASCII. • Logic gates & its types- ▪ OR Gate ▪ AND Gate ▪ NOT Gate ▪ XOR Gate	15	
	Books Recommended: 1. Computer fundamentals by P.K.Sinha and Priti Sinha 2. Computer fundamentals by Rajaraman 3. Computer fundamentals, Architecture and Organization by B. Ram		

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

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

Faculty of Commerce and Management Syllabus as per National Education Policy (NEP) 2020 B.Com. IT Major SEMESTER – I OE-I Micro Economics-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 able to... 1. Understand the basic concepts and scope of business economics 2. Understand theories and their Managerial applications		
Unit No.	Contents	No. of Hours
1	Introduction to Economics 1.1. Definition ,Nature, Scope and Significance of Economics 1.2. objective of a business firm 1.3. Basic Economic Problem 1.4. Business Economics and Business Decisions 1.5 Difference between Micro and Macro Economics	15
2	Concept of Utility 2.1 Law of Diminishing Marginal Utility 2.2 Demand Analysis and Forecasting 2.3 Meaning of Demand 2.4 Law of Demand 2.5 Determinants of demand, 2.6 Assumptions of Law of Demand 2.7 Elasticity of demand 2.8 Measurement of Elasticity of demand and its applications	15

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%)

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

**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 दिवसासाठी, 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 गुंठे)
6. सूचना विज्ञान के बहुआयामी प्रभाव - डॉ. गोविंद गुंठे

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
	अंतर्गत मूल्यमापन परीक्षा - (मौखिक / चर्चासत्र / स्वाध्याय / यात्रा भेंट / क्षेत्रीय कार्य)	10
	कुल-	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
I	Profit and Loss: ▪ Basic concept of profit and Loss ▪ Important terms – cost price, Fixed, variable and semi variablecost, selling price, market price, etc. ▪ Formulas for calculating Profit and loss. ▪ Application and examples.	15
II	Determinants: ▪ Introduction to Determinants ▪ Types of Determinants ▪ Properties of Determinants ▪ Application of Determinants.	15

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

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
I	Introduction to Statistics 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.	15
II	Measures of Central Tendency and Dispersion 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. 2.2 Measures of Dispersion (Variability): 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.).	15
	Reference Books: 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>	Marks
Attendance and ClassParticipation	02
1. Assignments	04
2. Seminar 3. Poster Presentation 4. Role Play 5. Group Discussion 6. Unit Tests 7. Visits 8. Group project	04 marks for any one of the given list (As per concern of subject teacher)

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

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

Course Code: VSC1	Office Automation-I	Credits: 02	Marks : 50
Course Outcomes	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.		
Unit No	Descriptions	No. of Periods	
1	INTRODUCTION TO OFFICE AUTOMATION: Elements of Office Suit & Area of Use. Benefits of Office Suites, Types of Users that Use Office Suites, Features Offered by Office Suite Software. INTRODUCTION TO MS WORD : 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	INTRODUCTION TO MS POWER POINT: 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	
	BOOKS RECOMMENDED: 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. 6. Websites: http://windows.microsoft.com/en-in/windows/msoffice-basics-alltopics		

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

Course Code: SEC1	Computer Assembly & Troubleshooting-I	Credits: 02	Marks : 50
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.		
UnitNo.	Descriptions	No. of Periods	
1	Motherboard and Processor: Study of different types of Motherboards, Motherboard Configuration, Identifying Internal and External connectors, Types of data cables, Types of Processor.	15	
2	Diagnostic and troubleshooting of PC: POST (Power on Self Test), Identifying problems by Beep codes errors. BIOS Configuration: Study of BIOS Set-up, Boot configuration, Boot Men, Types of Memories: Troubleshooting problems.	15	
	Books Recommended: 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)

Faculty of Commerce and Management Syllabus as per National Education Policy (NEP) 2020 B.Com. IT Major SEMESTER – I AEC-I : English for Business Communication ICredits: 2 Marks: Semester End:40 Internal Assessment:10 Total Marks: 50 Introduced from June 2024		
COURSE OUTCOMES: After studying this course, students will be... • Enhance their Managerial Communication at work skills set for career. • Familiarized with the current expected requirement of the industry. • Empower with professional as well as remedial of the industry.		
Unit No.	Contents	No. of Hours
I	Introduction to Business Communication: ▪ Meaning, Definitions and basic forms of Communication ▪ Process and need of communication ▪ Channels of communication ▪ Global world impact of technological advancement on communication	15
II	Communication skills: ▪ Listening skills: Importance and factors affecting on listening skills ▪ Speaking skills; Importance and principles of effective speaking ▪ Interview skills: types of interview, preparing for interview. ▪ Brief about group discussion, business meetings and conferences, etc.	15

References-

1. Business Communication- D.D. Singhal, Cengage Learning, 16th 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%)

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

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

COURSE OUTCOMES: 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		
Unit No.	Contents	No. of Hours
1	Indian Management: (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	15
2	Indian Business Models Business Model of Tata, Business Model of Bajaj Group, Business Model of Aditya Birla Group, Business Model of Reliance Industries, Business Model of AMUL	15

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%)

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

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

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

Course Code: DSC4	Programming in C- Part II	Credits:02	Marks:50
Course Outcomes	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.		
Unit No.	Descriptions	No. of Periods	
1	Functions and Pointers: Function declaration, function definition, Global and local variables, return statement, Calling a function by passing values. Recursion: Definition, Recursive functions. Pointers: Fundamentals, Pointer variables, Referencing and de-referencing, Pointer Arithmetic, Using Pointers with Arrays, Using Pointers with Strings, Array of Pointers	15	
2	Structures and File Handling: Declaration of structure, reading and assignment of structure variables, Array of structures, arrays within structures, structures within structures. union, differentiate between structure & union. File handling: 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().	15	
	Books Recommended: 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: DSC-5	Operating System	Credits: 2	Marks: 50
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.		
Unit No	Descriptions	No. of Lecture	
1	Introduction to Operating System: 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. Process Management: Processes and threads, Process states and life cycle, Process scheduling algorithms, Inter-process communication (IPC) Memory Management: Memory hierarchy, Virtual memory concepts, Page replacement algorithms, Memory allocation strategies	15	
2	File Systems and Security: File system concepts and organization, File operations: Create, Read, Write, Delete, File attributes and permissions, Directory structures File System Implementation File allocation methods, Directory implementation, Disk management and optimization, File system recovery and consistency Security and Protection Security threats and vulnerabilities, Authentication and authorization Access control mechanisms, Encryption and decryption, Backup and recovery procedures.	15	
	Books Recommended: 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

Course Code: DSC 6	Lab Course –Based on DSC4 and VSC2	Credits: 02	Marks : 50
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.		
	List of Practical's:		
Sr. No.	Description		
1	Write a program to find the product of given two matrices.		
2	Write a function which adds three number and display output on the screen.		
3	Write a function which calculate cube of given number.		
4	Write a program which swap two number using a) call by value and b)call by reference.t		
5	Write a program which create student structure which accept stud rollno, student name, address, subject marks , percentage and display same on screen.		
6	Write a program to separate even and odd numbers available in file.		
7	Write a program to count the no. of words in a given text file.		
8	Write a program to remove blank lines from a file.		
9	Write a program to copy content of one file into another file.		
10	Write a file handling program which accept student information store it into disk file using binary mode.		
11	MS-Excel Creating & Editing Worksheet, Fill Handle		
12	Use Formulas and Functions		
13	Preparing Charts		
14	Use of different Formulae's and function		
15	Sorting, Filtering, Graphs		
16	MS Access Write procedure for creating database in MS-Access.		
17	Establish relationship between tables and write steps for it.		
18	Generate form in MS-Access and write steps in detail.		
19	Create reports using different queries based on multiple tables and write steps in detail for it.		
20	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.

Faculty of Commerce and Management Syllabus as per National Education Policy (NEP) 2020 B.Com. IT Major SEMESTER – II DSM I: Insurance 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... • Know about concept of Insurance • Aware about importance of Insurance in society. • Able to understand Various types of insurance		
Unit No.	Contents	No. of Hours
I	Introduction to Insurance: ▪ Definition, characteristics of insurance. ▪ Need of insurance and Principles of Insurance. ▪ Economic and commercial significance of insurance. ▪ Insurance as a social security tool.	15
II	Types of Insurance: ▪ Meaning and Nature of life insurance, Fire insurance and Marine Insurance. ▪ Products under Life Insurance policies. ▪ Procedure of taking fire Insurance policy. ▪ Procedure of taking marine insurance policy.	15

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%)

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

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
I	Introduction to Macroeconomics 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	15
2	Supply of Money 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	15

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%)

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

**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, २००९
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 कीजिए। 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
	अंतर्गत मूल्यमापन परीक्षा - (मौखिक / चर्चासत्र / स्वाध्याय / यात्रा भेंट / क्षेत्रीय कार्य)	10
	कुल-	50

Faculty of Commerce and Management Syllabus as per National Education Policy (NEP) 2020 B.Com. IT Major SEMESTER – II OE- IV: Mathematics IICredits: 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 of mathematics. • Getting thorough knowledge of Determinants. • Demonstrates the ability to solve problem.		
Unit No.	Contents	No. of Hours
I	Ratio and Proportion: ▪ Introduction to Ratios and Proportion. ▪ Types of Ratios ▪ Calculations of Ratios ▪ Proportion – examples	15
II	Matrices: ▪ Types of Matrices. ▪ Properties of Matrices. ▪ Basic operations of matrices ▪ Application of Matrices	15

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

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
I	Analysis of Bivariate data: 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 $r = +1$, $r = -1$, $r = 0$. 3.2 Regression: 3.2.1. Concept of Regression, Definitions of regression coefficients and Equations of regression lines. Properties of regression coefficients (Statements only)	15
II	Sampling Techniques and Time Series Analysis: 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. 4.2 Time Series: (Analysis and Forecasting) 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)	15
	Reference Books: 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%)

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

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

Course Code: VSC2	<u>Office Automation-II</u>	Credits: 02	Marks : 50
Course Outcomes	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.		
Unit No	Descriptions	No. of Periods	
1	INTRODUCTION TO MS EXCEL: 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	INTRODUCTION TO MS ACCESS: Introduction to Access, Getting Started with Access: Introduction to Database Templates, Creating, Saving, Opening and Closing Databases. Working with Tables : 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. Datasheet View: Working in Datasheet View, Sorting and Filtering in Datasheet View, Entering and Modifying Data in Datasheet View. Creating Relationships: Relationships, Creating a Link Table, Setting Up Relationships, Editing the Link Table. Working with Forms: Creating a Form with Wizard, Queries: Creating a Query - Query Design, Understanding Joins, Creating a Query. Reports: Basic Reports, Report Design.	15	
	BOOKS RECOMMENDED: 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

Course Code: SEC2	Computer Assembly & Troubleshooting-II	Credits: 02	Marks : 50
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.		
UnitNo.	Descriptions	No. of Periods	
1	Hard Disk Set-up and Installation: Formatting of Hard disk, Partitioning of Hard disk in different logical drives, Installation of different operating systems. Troubleshooting of Hard Disk: Disk defragmentation, Disk clean up, Scan disk utility.	15	
2	Unit 2: Configuration of External devices: 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, Troubleshooting of External devices: Troubleshooting printer and scanner problems.	15	
	Books Recommended: 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)

Faculty of Commerce and Management Syllabus as per National Education Policy (NEP) 2020 B.Com. IT Major SEMESTER – II AEC-II : English for Business Communication IICredits: 2 Marks: Semester End:40 Internal Assessment:10 Total Marks: 50 Introduced from June 2024		
COURSE OUTCOMES: After studying this course, students will be... • Enhance their Managerial Communication at work skills set for career. • Familiarized with the current expected requirement of the industry. • Empower with professional as well as remedial of the industry.		
Unit No.	Contents	No. of Hours
I	Barriers to communication: ▪ Physical, Semantic Language, Socio-Cultural, Psychological Barriers ▪ Ways to Overcome these Communication Barriers ▪ Concept of Business Ethics and its Importance ▪ Development of positive personal attitude and SWOT analysis	15
II	Reading skills and writing skills ▪ Principles of Effective reading ▪ Business Letter writing ▪ Cover letters ▪ E- Communication.	15

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**

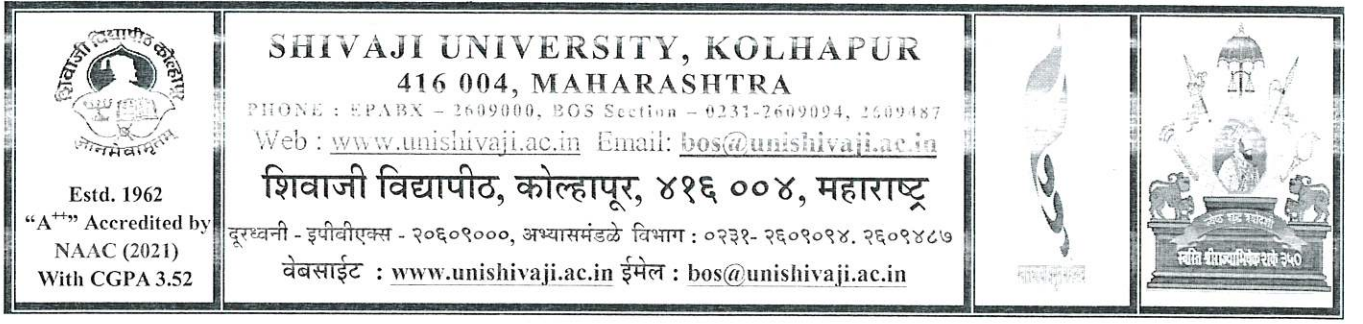
Answer limit 300-400 words

Internal Marks Distribution:

Total Marks: 10

Standard of Passing: 4 Marks (40%)

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



संदर्भ क्र. : शिवाजी वि./अ.म./577
प्रति,

दिनांक : 24/10/2024

1. मा. प्राचार्य/संचालक,
सर्व संलग्नित महाविद्यालये/मान्यताप्राप्त संस्था,
शिवाजी विद्यापीठ, कोल्हापूर
2. मा. अधिविभाग प्रमुख,
सर्व संबंधित अधिविभाग,
शिवाजी विद्यापीठ, कोल्हापूर

विषय : राष्ट्रीय शैक्षणिक धोरण, 2020 (NEP 2.0) नुसार सर्व पदवी
कोर्ससाठी Value Education Courses (VEC) अभ्यासक्रमाबाबत.

महोदय/महोदया,

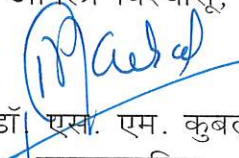
उपरोक्त संदर्भित विषयास अनुसरून आपणास आदेशान्वये कळविण्यात येते की, राष्ट्रीय शैक्षणिक धोरण २०२० (NEP 2.0) नुसार शैक्षणिक वर्ष २०२४-२५ पासून सर्व विद्याशाखेअंतर्गत असणारे सर्व पदवी कोर्ससाठी लागू करण्यात आलेल्या **Value Education Courses (VEC)** चा Welcoming Diversity for Building Society : Democracy, Constitution and Election या Online अभ्यासक्रमास विद्यापीठ अधिकार मंडळाने मान्यता देण्यात आली असून सदर अभ्यासक्रमाची प्रत सोबत पाठवित आहे.

सदर **Value Education Courses (VEC)** चा Welcoming Diversity for Building Society : Democracy, Constitution and Election हा Online अभ्यासक्रमाची प्रत जोडली आहे. तसेच विद्यापीठाच्या www.unishivaji.ac.in, NEP-2020@suk (Online Syllabus) या संकेतस्थळावर ठेवण्यात आले आहे.

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

कळावे,

आपला विश्वासू,


(डॉ. एस. एम. कुबल)
उपकुलसचिव

सोबत : अभ्यासक्रमाची प्रत.

प्रत : माहितीसाठी व पुढील योग्यत्या कार्यवाहीसाठी.

अधिष्ठाता, सर्व विद्याशाखा.	पात्रता विभागास.
अध्यक्ष, सर्व अभ्यास व अस्थायी मंडळे.	पी.जी. सेमिनार विभागास.
संचालक, परीक्षा व मुल्यमापन मंडळ कार्यालयास.	पी.जी. प्रवेश विभागास.
परिक्षक नियुक्ती ए व बी विभागास.	संलग्नता टी. १ व टी २ विभागास.
दूरस्थ व ऑनलाईन शिक्षण विभागास.	नॅक विभागास.
संगणक केंद्र/आय. टी. सेल विभागास.	सर्व ऑन परीक्षा विभागास.

SHIVAJI UNIVERSITY, KOLHAPUR



Established: 1962

A⁺⁺ Accredited by NAAC (2021) With CGPA 3.52

New Syllabus For
Value Education Course (VEC)
All Bachelor Degree Programmes

Part - I (Semester - II)

STRUCTURE AND SYLLABUS IN ACCORDANCE WITH
NATIONAL EDUCATION POLICY - 2020

HAVING CHOICE BASED CREDIT SYSTEM

WITH MULTIPLE ENTRY AND MULTIPLE EXIT OPTIONS

(TO BE IMPLEMENTED FROM ACADEMIC YEAR 2024-25 ONWARDS)

Course Category: Value Education Course

Course Name: Welcoming Diversity for Building Society: Democracy, Constitution and Election

Course Number: VEC- 01

Course Code: BAU0325VEL216B01

Course Credits: 2

Course Outcome:

1. Students will be able to explain the institution of democracy and election
2. Students will appreciate diversity and begin associating with people of diverse backgrounds
3. Students will be able to demonstrate the values enshrined in the Indian Constitution
4. Students will grow in taking responsibility as Indian and global citizens

Module	Module content	Credits	Hours
1	a. Introduction and Course Mind-map b. Meaning of Democracy and democratic values c. Universal Values in the Preamble of the Indian Constitution d. Our Commonalities e. Our Constitutional Values Binding Us Together as One People f. Our True Identity Binds Us Together g. Our Two-Fold Purpose h. Shaping Together Our Common Future Based on Unity in Diversity i. Accept, Appreciate and Gratitude j. Will Power k. Truth and Investigation of Truth l. Introspection and Visualization	1	15
2	a. Salient Features of the Indian Constitution b. Fundamental rights of the citizens c. Duties of the citizens d. Diversity in India e. Tolerance f. Beauty and Harmony in Diversity g. Communal Harmony h. Election Commission i. Electoral process	1	15

References and Further Readings:

- 1) Avashthi and Maheshwari (2019) Public Administration. Laxmi Narayan Agrawal Publication, Agra.
- 2) Basu, D. D., & others (2015). Introduction to Indian Constitution. Gurgaon: Lexis Nexis.
- 3) Laxmikanth, M., (2021). Indian Polity. New Delhi: McGraw Hill Education.
- 4) Online Audio and Videos on the different topics on Bahai Academy, Pachagani
- 5) पाटील, बी. बी., (२०१९) भारतीय शासन आणि राजकारण, फडके प्रकाशन कोल्हापूर .
- 6) जाधव, तुकाराम आणि शिरपूरकर महेश, (२०२१) भारतीय संविधान आणि भारतीय राजकारण, दि युनिक अकादमी प्रकाशन पुणे.
- 7) भणगे रविंद्र, (२०१२) भारतातील स्थानिक स्वराज्य संस्था, प्रशांत प्रकाशन, जळगाव.
- 8) पाटील व्ही. बी., (२०१२) पंचायत राज व्यवस्था, प्रशांत प्रकाशन, जळगाव.
- 9) पाटील, बी. बी., (२०१९) भारतीय शासन आणि राजकारण, फडके प्रकाशन, कोल्हापूर.
- 10) भोगले शांताराम, (१९९०), भारतीय स्थानिक शासन. विद्या प्रकाशन, नागपूर.
- 11) जैन अशोक, (१९९२) महाराष्ट्रातील शासन आणि राजकारण, सेठ पब्लिकेशन, मुंबई.
- 12) शिरसीकर व. म., (२००१) आधुनिक महाराष्ट्राचे राजकारण, कॉन्टिनेंटल प्रकाशन, पुणे.
- 13) माहेश्वरी एस आर, (२०१०), भारत में स्थानिक शासन, लक्ष्मीनारायण अग्रवाल प्रकाशन, आग्रा.
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ACTIVITIES AND EXERCISES SUGGESTED FOR INTERNAL ASSESSMENT:

- Home Assignment / Unit Test.
 - Visit nearby Gram Panchayat / Municipal Council/ Municipal Corporation etc.
 - Take interview of Political Leaders such as MLA, MP, ZP members etc.
 - Visit nearby print and electronic media offices and have a discussion
 - Any other exercise/activity approved by concerned teacher.
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