



RAYAT SHIKSHAN SANSTHA'S

RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR

CURRICULAR ASPECTS

1.2.1 Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

Index

Sr. No.	Programme Code	Programme name	Year of implementation of CBCS / elective course system
1	3129	B.A.	2018-19
2	7801	B.Com.	2018-19
3	2324	B. Sc	2018-19
4	2325	B.C.S.	2018-19
5	2341	M.Sc.	2018-19
6	371	M.A.	2019-20
7	790	B.Com IT	2022-23
8	7829	M.Com. I.T.	2022-23



SHIVAJI UNIVERSITY, KOLHAPUR.



Accredited By NAAC with 'A' Grade
CHOICE BASED CREDIT SYSTEM

Syllabus For

B.Sc. Part – I

Physics

SEMESTER I AND II

(Syllabus to be implemented from June, 2018 onwards.)





SHIVAJI UNIVERISTY, KOLHAPUR-416 004. MAHARASHTRA
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 दुरध्वनी (ईपीएबीएक्स) २६०९००० (अभ्यास मंडळे विभाग— २६०९०९४)
 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३. e-mail: bos@unishivaji.ac.in

Ref./SU/BOS/ HUM/ 4750

Date:- 01/06/2018

The Principal
 All Affiliated Arts (B.A.) Colleges,
 Shivaji University,
 Kolhapur.

Subject: Regarding Guidelines, Rules, Regulation, Structure and Standard of Passing of B.A. Part –I ,II,III (Sem I & VI) Choice Based Credit System (CBCS) under the Faculty of Humanities.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that University authorities have accepted and granted approval to Guidelines, Rules, Regulation, Structure and Standard of Passing of B.A. Part- I,II, III (Sem. I & VI) Choice Based Credit System (CBCS) under the Faculty of Humanities.

This Guidelines, Rules, Regulation, Structure and Standard of Passing shall be implemented from academic year 2018-2019 (i.e. from June 2018 onwards). A soft copy containing Guidelines, Rules, Regulation, Structure and Standard of Passing 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,

Dy. Registrar

Encl: As above

Copy to;

- 1 Dean, Faculty of Humanities
- 2 Chairman, BOS & Ad-hoc Bords under Faculty of Humanities
- 3 Appointment Section
- 4 P.G. Admission Section
- 5 B.A. Section
- 6 Affiliation Section (U.G.)
- 7 Computer Centre
- 8 Eligibility Section
- 9 Distan Education

for information and necessary action.





Shivaji University, Kolhapur

Choice Based Credit System (CBCS)

Bachelor of Arts (B. A.) Program

Faculty of Humanities

(To be implemented from Academic Year 2018-19)



Shivaji University, Kolhapur
Regulations and Guidelines
Under Choice Based Credit System (CBCS)
Bachelor of Arts (B. A.) Program
Under the Faculty of Humanities
 (To be implemented from Academic Year 2018-19)

1. **Implementation of Regulations & guidelines** - The Regulations and guidelines shall be implemented as mentioned below -
B.A. Part – I, Sem I & II from Academic year 2018- 19
B.A. Part – II, Sem III & IV from Academic year 2019- 20
B.A. Part – III, Sem V & VI from Academic year 2020- 21
2. **Eligibility Criteria:** As per Ordinance – O. B. A. 1
3. **Pattern of CBCS** - The pattern of CBCS for Semester examinations shall be as mentioned below:
 - i. **B. A. Part – I, Sem I & II:-** 50 marks University Semester examination for each theory paper in each Semester.
 - ii. **B. A. Part – II, Sem III & IV:-** 50 marks University Semester examination for each theory / practical paper in each Semester except Environmental Studies.
 For Environmental Studies at Semester IV, 70 marks will be for theory paper and 30 marks for the project work.
 - iii. **B. A. Part – III, Sem V & VI :-** 40:10 pattern shall be applicable for each theory paper in each semester wherein 40 marks shall be for University Semester examination and 10 marks for internal assessment.
4. **Weightage:** There shall be 1900 marks for 3 years having 6 Semesters B. A. CBCS Program with 148 Credits.
 - a) **B. A. Part – I (Sem I & II) :**
 For B. A. Part I total 12 papers with 6 papers of each semester and total Credits shall be 48 with 24 Credits for each Semester.
 - I.** There shall be Ability Enhancement Compulsory Courses (subjects) (hereafter termed as AECC) with Paper 1 for Sem I and Paper 2 for Sem II each of 50 marks, as compulsory English course.



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)

(To be implemented from June 2022 onwards)

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



SHIVAJI UNIVERSITY, KOLHAPUR

BACHELOR OF COMMERCE (IT)

Course Structure under Choice Based Credit System (CBCS)

Title : The degree shall be titled as '**BACHELOR OF COMMERCE (INFORMATION TECHNOLOGY)**

under the faculty of commerce with effect from the academic year

B. Com. INFORMATION TECHNOLOGY Sem. I & II from Academic Year 2022-23

B. Com. INFORMATION TECHNOLOGY Sem. III & IV from Academic Year 2023-24

B. Com. INFORMATION TECHNOLOGY Sem. V & VI from Academic Year 2024-25

1) **Introduction:**

Bachelor of Commerce-IT (3years) program / degree is a specialized program in Commerce. It builds the student on studies in applied use of computers and to become competent in the current race and development of new computational era.

The duration of the study is of six semesters, which is completed in three years. The program is based on Choice-based credit system comprising 144 credit points and intake for one batch is not more than 80 students.

2) **Objective:**

Bachelor of Commerce-IT offers the prequalification for professionals heading for smart career in the IT field, which measures up to international standards. On completing this course one can do higher studies such as M.Com, MBA, MCA etc., in any UGC recognized universities or in any other reputed institution in India or abroad.

A) Program Educational Outcomes:

After completing the B Com (IT) program the students would be able to:

PEO1: Acquire the managerial professional attributes and be capable of decision making by applying the information Technology.

PEO2: Prepare student to design IT applications in business management.

Explore the entrepreneurial quality and start new business venture with innovative ideas

PEO3: Prepare students to undertake post-graduation in the area of Information Technology Commerce and management.





Shivaji University, Kolhapur

Choice Based Credit System (CBCS)

Bachelor of Commerce (B. Com.) Program

Faculty of Commerce and Management

(To be implemented from Academic Year 2018-19)



Shivaji University, Kolhapur
Under Choice Based Credit System (CBCS)
Bachelor of Commerce (B. Com.) Program
Under the Faculty of Commerce and Management
Regulations and Guidelines
(To be implemented from Academic Year 2018-19)

1. **Implementation of Revised guidelines and rules** - The revised guidelines and rules shall be implemented gradually as mentioned below -
 - B.Com. Sem I & II** from Academic year 2018- 19
 - B.Com. Sem III & IV** from Academic year 2019- 20
 - B.Com. Sem V & VI** from Academic year 2020- 21
2. **Eligibility Criteria:** As per Ordinance – O. B. Com. 1
3. **Pattern of CBCS** - The pattern for the purpose of Semester end examinations shall be as mentioned below:
 - i. **B. Com. Sem I & II** :- 50 marks University Semester end examination for each theory paper in each Semester.
 - ii. **B. Com. Sem III & IV**:- 50 marks University Semester end examination for each theory paper in each Semester except Environmental Studies. Only for Environmental Studies in Semester IV, 70 marks shall be for University examination for theory paper and 30 marks for project work.
 - iii. **B. Com. Sem V & VI** :- 40:10 pattern shall be applicable for each theory paper in each semester wherein 40 marks shall be for University Semester end examination and 10 marks for internal assessment.
4. **Weightage:** There shall be 1900 marks for 3 years B. Com. CBCS Program with 148 Credits. 4 Credits for each course with 24 credits for each Semester except for Sem IV 28 Credits.





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 फॅक्स : ००९१-०२३१-२६९१५३३ व २६९२३३३.e-mail:bos@unishivaji.ac.in

Ref./SU/BOS/Science/4749

Date:- 01/06/2018

The Principal
 All Affiliated Science (B.Sc.) Colleges,
 Shivaji University,
 Kolhapur.

Subject: Regarding Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Sc. Part –I, II, III (Sem I & VI) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

Sir/Madam,

With reference to the subject mentioned above, I am directed to inform you that University authorities have accepted and granted approval to Guidelines, Rules, Regulation, Structure and Standard of Passing of B.Sc. Part- I , II, III (Sem. I & VI) Choice Based Credit System (CBCS) under the Faculty of Science and Technology.

This Guidelines, Rules, Regulation, Structure and Standard of Passing shall be implemented from academic year 2018-2019 (i.e. from June 2018 onwards). A soft copy containing Guidelines, Rules, Regulation, Structure and Standard of Passing 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,

Dy. Registrar

Encl: As above

Copy to;

- 1 Dean, Faculty of Science and Technology
- 2 Chairman, BOS & Ad-hoc Bords under Faculty of Science and Technology
- 3 Appointment Section
- 4 P.G. Admission Section
- 5 B.Sc. Section
- 6 Affiliation Section (U.G.)
- 7 Computer Centre
- 8 Eligibility Section
- 9 Distan Education

for information and necessary action.



Shivaji University, Kolhapur

Choice Based Credit System (CBCS)

Bachelor of Science (B. Sc.) Program

Under Faculty of Science & Technology

(To be implemented from Academic Year 2018-19)

Shivaji University, Kolhapur
Choice Based Credit System (CBCS)
Bachelor of Science (B. Sc.) Program
Under the Faculty of Science & Technology
Regulations and Guidelines
 (To be implemented from Academic Year 2018-19)

1. **Implementation of Regulations & Guidelines:** The Regulations & guidelines shall be implemented gradually as mentioned below –
 - a) B.Sc. Part – I from Academic year 2018- 19
 - b) B.Sc. Part – II from Academic year 2019- 20
 - c) B.Sc. Part – III from Academic year 2020- 21
2. **Eligibility Criteria:** As per Ordinance – O. B. Sc. 1
3. **Duration and Pattern of program:** The total duration of B. Sc. Program will be of 3 years. The pattern of CBCS will be of semester type. There shall be 6 semesters each of 6 months duration.
4. **Weightage:** There shall be 2800 marks for 3 years B. Sc. CBCS Program with 140 Credits.
 - a) **B.Sc. Part – I (Sem I & II) :**
 For B. Sc. Part I total Credits shall be 52 with 26 Credits for each Semester, of these; there shall be 18 Credits for theory and 8 credits for practical per semester.
 - I. There shall be Ability Enhancement Compulsory Course (subject) (hereafter termed as AECC) with Paper A for Sem I and Paper B for Sem II each of 50 marks, as compulsory English course.
 - II. There shall be 4 Discipline Specific Core Courses (subjects) (hereafter termed as DSC) per semester.
 - III. There shall be 2 theory papers each of 50 marks for each DSC.
 - IV. There shall be 1 practical of 50 marks for each DSC.

b) B.Sc. Part –II (Sem III & IV) :

For B. Sc. Part II total Credits shall be 52 with 28 Credits for Sem III and 24 Credits for Sem IV. For Sem III there shall be 16 Credits for

SHIVAJI UNIVERSITY, KOLHAPUR



SYLLABUS

For

M.Sc. (Statistics) Part I

Choice Based Credit System
(CBCS) as per NEP-2020

To be implemented from
Academic Year 2022-23

M.Sc. Statistics Part I

Syllabus: w.e.f. academic year 2022-23

- A. Ordinance and Regulations: - (as applicable to degree/ programme)
- B. Shivaji University, Kolhapur, New/Revised Syllabus for Master of Science

1. Title of the Programme: **M. Sc. (Statistics)**
2. Faculty: Science and Technology
3. Year of Implementation: M.Sc. part-I: Academic year 2022-23
4. Preamble
5. Learning outcomes

- **Programme Outcomes**

Post Graduates of the M.Sc. Statistics programme will be able to:

- 1) Have sufficient knowledge of theoretical concepts in Statistics for (i) choosing and applying the most appropriate statistical methods/ techniques for collecting and analyzing data (ii) interpreting the results of analyses in relation to given real life situations.
- 2) Have deep understanding and ability to explain the inter-connections between various sub disciplines and apt use of these inter-connections in modelling real life problems.
- 3) Have ability to recognize the importance of statistical thinking and training, and to acquire the state-of-the-art developments in Statistics independently from available resources.
- 4) Develop expertise in data management and analysis using widely used statistical software.

- **Programme Specific Outcomes (POs)**

After completion of M.Sc. Statistics programme the student will be able to:

- 1) Develop stochastic models for studying, analyzing, interpreting and forecasting real life phenomenon in diverse disciplines.
- 2) Effectively use necessary statistical software and computing environment including R, MS-EXCEL among others.
- 3) Have the versatility to work effectively in a broad range of establishments (including R&D sectors, analytics, scientific laboratories, government, financial, health, educational) or to continue for higher education, and exhibit ethical and professional behaviour in team work.

6. Duration: 2 Years
7. Pattern: CBCS as per NEP-2020
8. Fee Structure: As per university guidelines
9. Eligibility criteria for Admission: B. Sc. with Statistics as principal subject
10. Medium of Instruction: English



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 दूरध्वनी विभाग ०२३१-२६०९०९३/९४



Ref./SU/BOS/Com & Mgmt./ 640

Date : 24/08/2023

To,

The Principal/Co-ordinator/Director
All Affiliated M. Com IT Colleges/Institutions,
Shivaji University, Kolhapur

Subject : Regarding Syllabi of M. Com. IT Part I (Sem I/II) Choice Based Credit System (CBCS) 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 **M. Com. IT (Information Technology) Part I (Sem I/II) Choice Based Credit System (CBCS)** under the Faculty of Commerce & Management as per National Education Policy, 2020

This syllabi shall be implemented from the academic year **2023-2024** 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, Board of Studies
3. Director, BOEE
4. Appointment Section
5. P. G. Admission Section
6. O. E. 1 Section
7. Affiliation Section (U.G./P.G.)
8. Computer Center/I.T.
9. Eligibility Section
10. Distance Education, SUK
11. P.G. Seminer Section

} for information

} for information and necessary action.

SHIVAJI UNIVERSITY KOLHAPUR



ESTD. 1962
NAAC A++ Grade

Faculty of Commerce and Management

Master of Commerce Information Technology

(M. Com. IT)

(Structure and Syllabus in accordance with National
Education Policy to be implemented from Academic
Year 2023-24)

Shivaji University, Kolhapur

Master of Commerce IT (M. Com. IT)

Syllabus, Structure, Rules and
Regulations (in accordance with
National Education Policy
to be implemented from Academic Year 2023-24)

1. INTRODUCTION:

The stream of commerce education has gained lot of importance in the recent past. Due to globalization trade and aids to trade has not remained in the limited horizon. The facets of trade need to be studied beyond geographical barriers and culture. Therefore, the time has come to think commerce education from the perspective of global education. The domains falling in commerce like accountancy, costing, taxation as well as business administration have importance in every walk of life for an entrepreneur. The whole commerce education itself is an interdisciplinary in nature. Therefore, recent trends in those subjects and their applications in the business world need to be correlated. While restructuring this curriculum as per the National Education Policy 2020, more focus is on practical applications of various concepts being taught under the faculty of commerce and management.

2. PROGRAMME OUTCOMES:

PROGRAMME OUTCOMES (POs)

Program Outcomes: Program outcomes are attributes of the graduates from the program that are indicative of the graduates' ability and competence to work as an IT professional upon graduation. Program Outcomes are statements that describe what students are expected to do now or do by the time of post-graduation. They must relate to knowledge and skills that the students acquire from the program. The achievement of all outcomes indicates that the student is well prepared to achieve the program educational objectives down the road. Master of Commerce IT program has following PO's.

PO1. Computational Knowledge: Understand and apply mathematical foundation, computing and domain knowledge for the conceptualization of computing models from defined problems.

PO2. Problem Analysis: Ability to identify, critically analyze and formulate complex computing problems using fundamentals of computer science and application domains.

PO3. Design / Development of Solutions: Ability to transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies

PO4. Conduct Investigations of Complex Computing Problems: Ability to devise and conduct experiments, interpret data and provide well informed conclusions.

PO5. Modern Tool Usage: Ability to select modern computing tools, skills and techniques necessary for innovative software solutions

PO6. Professional Ethics: Ability to apply and commit professional ethics and cyber regulations in a global economic environment.

PO7. Life-long Learning: Recognize the need for and develop the ability to engage in continuous learning as a Computing professional.

PO8. Project Management and Finance: Ability to understand, management and computing principles with computing knowledge to manage projects in multidisciplinary environments.

PO10. Societal & Environmental Concern: Ability to recognize economical, environmental, social, health, legal, ethical issues involved in the use of computer technology and other consequential responsibilities relevant to professional practice.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

- **PSO₁:** In depth understanding of core areas of Information Technology- programming, web designing, mobile computing, data analytics, research methods using IT
- **PSO₂:** Application of knowledge in problem solving, decision making
- **PSO₃:** Working in teams as well as taking initiative and leadership responsibilities
- **PSO₄:** To apply modern tools techniques and methods
- **PSO₅:** Applying inter personal communication skills
- **PSO₆:** Ability to identify role of IT in different functional areas of accounting, finance, taxation and administration.

3. DURATION:

The revised guidelines and rules shall be implemented gradually as mentioned below and the duration of the programme has been mentioned below:

Postgraduate Programme:			
Level 6.0	Postgraduate Diploma (One year or two semesters)	M. Com. IT Part-I	2023-24
Level 6.5	Master's Degree (Two years or four semesters)	M. Com. IT Part-II	2024-25
Level 6.5	Master's Degree (One year or two semesters after obtaining a four-year Bachelor's Degree (Honours/Research))	M. Com. IT Part-II	2026-27

(If the candidate wants to exit after a certain level, the Awards after completing specific level will be: Postgraduate Diploma in Commerce and M. Com. for Level- 6.0 and Level-6.5 respectively. Other provisions for multiple entry and exit as per the university's rules and regulations are applicable).

4. ELIGIBILITY FOR ADMISSION:

The candidate completed Three Years B. Com. IT Degree (or Level-5.5 of NEP framework) will be eligible for M. Com. Part-I (Level 6). The candidate completed Four Year B.Com. IT (Hon./Research) (Level-6) will be eligible for M. Com. IT Part-II (Level 6.5) directly. [The criteria for admission is as per the rules and regulations set from time to time by the university, government and other relevant statutory authorities.]

5. MEDIUM OF INSTRUCTION:

The medium of instruction shall be ENGLISH.

6. Pattern of M. Com. IT Programme:

Combination of internal assessment and semester-end examination for M. Com. IT will be 80:20 pattern shall be applicable for each theory paper in each semester wherein 80 marks shall be for University Semester-end examination and 20 marks for internal assessment except Lab Work, Project Work and Apprenticeship. In that case Lab Work will have 50 marks which will be assessed by internal subject teachers, Project Work will have 60 marks and Viva-voce will have 40 marks and for Apprenticeship total 150 marks will be their which will be assessed by internal guide and external mentor from industry or community engagement.

7. Weightage: There shall be Two Year M. Com. IT Programme with 160 Credits. The candidate wishes to attempt for Four Year B. Com. IT (Hon./Research) may opt for 4th year which will have 38 credits, hence, Four Year B. Com. IT Programme will require 198 credits. (Please refer the university regulations and structure of the programme for details).

9. Scheme of Examination:

All the rules of passing and other statues will be as per the regular M.Com course

The Question paper in each Semester for each theory course (paper) for M. Com. (all Semesters) shall be of 80 marks. Total marks for each course shall be based on continuous assessments and semester-end examination. Combination of internal assessment and semester-end examination for M. Com. will be as follows:

Total marks for each course	= 100
Internal Assessment	= 20
Semester-end Examination	= 80

Internal Assessment Process shall be as follows:

- (a)** The Internal Assessment (for 20 % Marks) shall be based on test, assignment, seminar, case study, field work, project work etc. This assessment process 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 Coordinator/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.

Shivaji University, Kolhapur
Syllabus of M.Com IT
Faculty of Commerce and Management
Syllabus in accordance with NEP2020
Introduced from Academic Year 2023-24

M.Com. Part-I (Information Technology)			
Semester-I			
DSC1: Web Technology using PHP			
Course Outcomes	Students of this course will be able to : 1: Apply the concept and usages web based programming techniques. 2: Demonstrate the development of web applications using PHP. 3: Design and implement user interactive dynamic web based applications. 4: Demonstrate data validation techniques through PHP.		
Marks:100	Total Hours of Teaching:60	University Exam :80	Internal : 20
Syllabus Contents:			
Unit 1:	Introducing PHP: History, General Language Feature PHP Basics: Embedding PHP code in Your Web Pages, Commenting Your Code, Outputting Data to the Browser, PHP supported Data Types, Identifiers, Variables, Constants, Expressions, String Interpolation, and Control Structures		15 Periods
Unit 2:	Functions: Invoking a Function, Creating a Function, Function Libraries Array: What is Array?, Creating an array, outputting an Array, Merging, slicing, splicing and Dissecting Arrays, Other useful Array Functions. Strings and Regular Expressions: Regular Expressions, Other String-Specific Functions, Alternatives for Regular Expression Functions Working with HTML Forms: PHP and Web Forms, Validating Form Data		15 Periods
Unit 3:	Object-Oriented PHP: The benefits of OOP, Key OOP Concepts, Constructor and Destructors, Static Class Members, The instance of Keyword, Helper Functions. Advanced OOP Features: Object Cloning, Inheritance, Interfaces, Abstract classes and Introducing namespaces.		15 Periods
Unit 4:	Session Handlers: What Is Session Handling, Configuration Directives, Working with Sessions, Practical Session-Handling Examples, Creating Custom Session Handlers Using PHP with MySQL: Installation Prerequisites, Using the MySQLi Extension, Interacting with the Database, Executing Database Transactions		15 Periods
	Reference Books: 1. Web Technologies, Black Book, dreamtech Press 2. HTML 5, Black Book, dreamtech Press 3. Learning PHP, MySQL, JavaScript, CSS and HTML 5, Robin Nixon, O'Reilly publication 4. Beginning PHP and MySQL: From Novice to Professional, Fourth Edition - W. Jason Gilmore 5. Professional PHP Programming, Jesus Caspagnetto, Etal. Wrox Publication.		

M.Com. Part-I (Information Technology)

Semester-I

**DSC4: Lab based on DSC1
(Choice Based Credit System)**

Course Outcomes:

Students who complete this course should be able to:

1. **Identify** components of PHP applicable to web based solutions.
2. **Implement** the different tools of PHP while developing web based applications for the business.

Marks:50	Total Hours of Teaching:30	University Exam :00	Internal : 50
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Programs Based on Web Technology using PHP.

This laboratory course should consist of 10 to 12 programming exercises with focus on covering the hands-on aspects covered in theory course.



Estd. 1962
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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 दूरध्वनी विभाग ०२३१-२६०९०९३/९४



Ref./SU/BOS/Com & Mgmt./ 567

Date : 27/07/2023

To,

The Principal/Co-ordinator/Director
All Affiliated M. Com IT Colleges/Institutions,
Shivaji University, Kolhapur

Subject : Regarding Syllabi of M. Com. IT Part II(Sem III/IV) Choice Based Credit System (CBCS) 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 **M. Com. IT (Information Technology) Part II (Sem III/IV) Choice Based Credit System (CBCS)** under the Faculty of Commerce & Management as per National Education Policy, 2020

This syllabi shall be implemented from the academic year **2023-2024** 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, Board of Studies

} for information

3. Director, BOEE
4. Appointment Section
5. P. G. Admission Section
6. O. E. 1 Section
7. Affiliation Section (U.G./P.G.)
8. Computer Center/I.T.
9. Eligibility Section
10. Distance Education, SUK
11. P.G. Seminar Section

} for information and necessary action.

SHIVAJI UNIVERSITY, KOLHAPUR



ESTD. 1962

NAAC A++ Grade

Faculty of Commerce and Management

Master of Commerce (M. Com.) Information Technology Part II

Under Choice Based Credit System (CBCS)

(Structure and Syllabus in accordance with **National Education Policy** to be implemented from Academic Year 2023-24)

Master of Commerce (M. Com.)

Under Choice Based Credit System (CBCS)

(Structure in accordance with **National Education Policy** to be implemented from
Academic Year 2022-23)

Structure of M. Com. Part-II (Information Technology) (Semester-III & IV)

(From Academic Year 2023-24)

Semester	Discipline Specific Course (DSC)	Discipline Specific Electives (DSE)	Field Work/ Internship/ Apprenticeship	Skill Enhancement Course (Multi-disciplinary)	Credits required
Level-9					
III	DSC4 (4) DSC5 (4)	DSE5(4) DSE6 (4)	--	SEC-3 (2)	18
IV	DSC6 (4) DSC7 (4)	DSE7 (4) DSE8 (4)	--	SEC-4 (2)	18
					36

Semester- III

Sr. No.	Course Type	Teaching Scheme						Examination Scheme					
		Theory			Practical			Semester end Exam.			Internal Assessment		
		No. of L	Hours	Credits	No. of P	Hours	Credits	Paper Hours	Max.	Min.	IA	Max.	Mio.
1	DSC-4	04	04	04	-	-	-	03	80	32	IA	20	08
2	DSC-5	04	04	04	-	-	-	03	80	32	IA	20	08
3	DSE-V	04	04	04	-	-	-	03	80	32	IA	20	08
4	DSE-VI	04	04	04	-	-	-	03	80	32	IA	20	08
5	SEC-III	02	02	02	-	-	-	02	50	20	-	-	-
	Total	18	18	18	-	-	-		370			80	

Semester- IV

Sr. No.	Course Type	Teaching Scheme						Examination Scheme					
		Theory			Practical			Semester end Exam.			Internal Assessment		
		No. of L	Hours	Credits	No. of P	Hours	Credits	Paper Hours	Max.	Min.	IA	Max.	Mio.
1	DSC-6	04	04	04	-	-	-	03	80	32	IA	20	08
2	DSC-7	04	04	04	-	-	-	03	80	32	IA	20	08
3	DSE-VII	04	04	04	-	-	-	03	80	32	IA	20	08
4	DSE-VIII	04	04	04	-	-	-	03	80	32	IA	20	08
5	SEC-IV	02	02	02	-	-	-	02	50	20	-	-	-
	Total	14	14	14	-	-	-		370			80	

DSC- Discipline Specific Course, DSE- Discipline Specific Elective,

SEC- Skill Enhancement Course

IA- Internal Assessment, L- Lecture, P- Practical

Note:

- 1) For each course of 4 credits, requirement of hours for a semester will be 60 hours.
- 2) Internal Assessment will include internal test (10 marks) and assignment (10 marks) for all DSC and DSE courses.

Semester-III		Semester-IV	
Course Code	Course (Subject)	Course Code	Course (Subject)
DSC-4	Management Accounting -I	DSC-6	Management Accounting -II
DSC-5	Business Finance –I	DSC-7	Business Finance –II
DSE-V	Advance Database Technology	DSE-VII	Data Analytics
DSE-VI	Emerging Trends in Web Technology	DSE-VIII	Mobile Applications
SEC-III	Skill Enhancement Course-3	SEC-IV	Skill Enhancement Course-4

M.Com. ((CBCS)) Part-II (Information Technology) (Semester-III)**CC-C1: Management Accounting Paper I****4 Credits**

60 hours Course	<u>Course Content</u>	Total 100Marks
Course Outcomes:	1. Understand the fundamentals of Management Accounting. 2. Explain the analysis and interpretation of financial statements. 3. Demonstrate the estimation of working capital requirements. 4. Practice to analyze the changes in financial position.	(Marks: 80 for Examination & 20 Internal Evaluation)
	Course Content	
Unit-I:	Introduction:	(10 hours)
Theory	Meaning of Management Accounting, Scope and Functions of Management Accounting, Role of Management Accountant in Decision Making, Management Accounting vs. Financial Accounting, Tools and Techniques of Management Accounting	
Practical	Group discussion can be conducted in the classroom on the contents of Unit-I	
Unit-II:	Analysis of Financial Statements:	(15 hours)
Theory	Meaning and Types of Financial Statements, Analysis of financial statements: Comparative Statement Analysis, Common-size Statement Analysis, Trend Analysis and Ratio Analysis- Classification of Ratios, Advantages and Limitations of Accounting ratios.	
Practical	Download financial statements of any company and analyse it with any technique of financial analysis. Also write interpretation.	
Unit-III:	Working Capital:	(15 hours)
Theory	Meaning, Significance and Determinants of Working Capital, Operating Cycle, Types of Working Capital, Estimation of Working Capital Requirements	
Practical	Exercise for Simulation of estimation of working capital can be arranged in the classroom.	
Unit-IV:	Funds flow Statement and Cash Flow Statement:	(20 hours)
Theory	a) Meaning of Fund and Funds Flow Statement, Identifying Flow of Funds, Preparation of Funds Flow Statement, b) Meaning of Cash Flow Statement, Utility of Cash Flow Statement and Preparation of Cash Flow Statement(AS-3) c) Difference between Funds Flow Statement and Cash Flow Statement	
Practical	a) Prepare fund flow statement on hypothetical data and try to interpret it. b) Download cash flow statement of any company and interpret it.	

(Note: The respective teacher will guide and help the students to do practical).

Reference Books:

1. Khan M.Y. and Jain P.K. Management accounting, Tata McGraw Hill, New Delhi
2. Charles T. Horngren, Introduction to management Accounting, Prentice Hall of India, New Delhi.
3. Horngren, Charles T. George Foster and Shrikant M. Daliar :
4. Cost Accounting : A Managerial Emphasis, Prentice Hall, Delhi
5. Pandey I. M.: Management Accounting, Vikas Publication, Delhi. ‘
6. Welsch Glenn A., Ronald W. Hilton and Paul N. Gordon :
7. Budgeting, Profit Planning and control, Prentice Hall, New Delhi.
8. Manmohan & Goyal : Principles of Management Accounting
9. Maheshwari: Principles of Management Accounting
10. Robert Anthony and Vijay Govindrajana - Management Control System

M.Com (CBCS) Part-II (Information Technology) (Semester-IV)

CC-C2: Management Accounting Paper-II(Management Control System)

60 hours Course	<u>Course Content</u>	4 Credits Total 100 Marks
Course Outcomes:	<ol style="list-style-type: none"> 1. Understand the fundamentals of Management Control System and Reporting. 2. Explain the marginal costing and cost-volume-profit analysis and practice decision making based thereon. 3. Simulate the budgetary control system and demonstrate the budgeting. 4. Practice to analyze the cost variances. 	(Marks: 80 for Examination & 20 Internal Evaluation)
Unit - I:	Management Control System:	(10 hours)
Theory	<ol style="list-style-type: none"> a) Meaning, Need, Importance and Scope of Management Control System, Management Control Process; b) Strategic Planning-Meaning, Difference between Strategic Planning and Management Control and c) Reporting to Management- Types of Reports and Characteristics of good report. 	
Practical	Group discussion can be conducted in the classroom on the contents of Unit-I.	
Unit - II:	Marginal Costing and CVP Analysis:	(15 hours)
Theory	Meaning and Application of Marginal Costing, Break-Even Analysis, Cost-Volume- Profit (CVP) Analysis, Decision Making through Marginal Costing- Make or Buy Decision, Shut Down or Continue Decision, CVP Analysis in Multi-product Decision, Alternative Course of Action.	
Practical	<ol style="list-style-type: none"> a) Exercise for Simulation of computing break-even point and margin of safety and interpret the situations. b) Draw break-even charts on graph paper considering hypothetical data and compare output of graphical method with algebraic method. 	Students
Unit - III:	Budgetary Control:	(20 hours)
Theory	Meaning of Budget and Budgetary Control, Objectives, Advantages and Limitations; Types of Budgets – Production, Sales, Cash, Master Budget, Fixed and Flexible Budget; Capital Expenditure Budgeting (Note: Problems will be asked on Cash Budget, Flexible Budget and Capital Budget only)	
Practical	Role Play can be arranged to know the working of budget committee works in budgetary control system or Visit any organization which has well established budgetary control system and discuss with budget officer regarding it.	
Unit - IV:	Standard Costing and Variance Analysis:	(15 hours)
Theory	<ol style="list-style-type: none"> a) Meaning of Standard Cost and Standard Costing, Setting a System of Standard Costing, Advantages and Limitations; b) Variance Analysis- Material Cost Variances, Labour Cost Variances and Overhead Variances 	
Practical	<ol style="list-style-type: none"> a) Compute variances on the basis of hypothetical data and interpret it. b) Analyse variances for such any organization which has well established budgetary control system and discuss with budget officer regarding it. 	

Shivaji University, Kolhapur

Syllabus of M.Com.

Faculty of Commerce and Management

Syllabus in accordance with NEP-2020

Introduced from academic year 2023-24

M.Com. Part-II (Semester-III)

SKILL ENHANCEMENT COURSE (SEC-3)

(Self Study Mode)

Title of the Paper : E-filing of Income Tax Return

30 Hours

2 Credits

	Course Content
Course Outcomes	After studying this course students shall be able To know the different income tax return To know the procedure of e filing tax return and payment of tax
Skills to be acquired	Acquire ability to apply such knowledge to e filling of income tax return
Unit-I	Return of Income
Theory	Permanent Account Number (PAN), different forms of income tax return , compulsory and voluntary filling of income tax return , fees and interest for default in filling return, return of loss, belated return , revised return, defective return, persons authorized to verify return of income
Unit-II	E payment of tax and E filling of income tax return
Theory	Online payment of taxes , steps of e payment of tax , Login of e filling portal procedure of online filling and verification of return

Books Recommended:

1. Singhanian V.K. & Monica singhanian : Students' guide to Income tax , Taxman publication
2. Manoharan T.N. Direct taxes : Snow white publication, New Delhi
3. The Institute of Chartered Accountants of India study material for CA Inter
4. Website : <https://eportal.incometax.gov.in>

Shivaji University, Kolhapur

Syllabus of M.Com.

Faculty of Commerce and Management

Syllabus in accordance with NEP-2020

Introduced from academic year 2023-24

M.Com. Part-II (Semester-IV)

SKILL ENHANCEMENT COURSE (SEC- 4)

(Self-Study Mode)

Title of the Paper : Research Ethics

30 Hours

2 Credits

	Course Content
Course Outcomes	1. Provide students with the fundamental knowledge of basic research ethics 2. Create awareness among students about misconduct of ethics in research
Skills to be acquired	Consent for original work, respect for confidentiality, distinguishing between right and wrong, avoiding misinterpretation of research data, promoting truth, minimising errors
Unit-I	Introduction to Research Ethics
Theory	Meaning, Definition, Principles of research ethics, Objectives, Advantages, Disadvantages, Responsibilities for Research ethics.
Unit-II	Publication Ethics
Theory	Publication Ethics meaning, Scientific Misconducts: Nature, fabrication and plagiarism Publication Misconduct: Introduction, Importance. Violation of publication ethics : Inappropriate authorship, multiple submission, overlapping publication, salami publication, inappropriate authorship, intended omission of negative results, data dredging Corrective measures taken by UGC to control misconduct in publication.

Books Recommended:

1. Bora Pransal , (2023). Research Methodology and Research Publication Ethics. Notion Press.
2. Datta Dilip, (2021) Good Practices and Ethics in research publication, Ane Books Pvt. Ltd.
3. Ray Partha (2022) A Guide to Research and publication Ethics, New Delhi Publisher.

(Note – Recent editions of the above books may be referred)