



**Maharashtra Academy of Engineering and  
Educational Research's**

**MIT Arts, Commerce and Science College, Alandi  
(D) – 412 105.**

**“Action Taken Report on Curriculum”**

# MIT Arts, Commerce & Science College

Affiliated to Savitribai Phule Pune University & Recognized by Government of Maharashtra  
(ID No. PU/PN/ASC/289/2007)

MAEER/MITACSC/2019/39

25th March 2019

To,

The Chairman

Board of Studies (Computer Science)  
Savitribai Phule Pune University,  
Ganeshkhind, Pune-411007

**Subject: - Suggestion for proposed syllabus to be implemented for the programme B.Sc (Computer Science) & M.Sc (Computer Science) under choice based credit system.**

Sir/Mam,

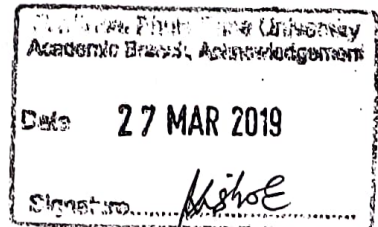
With reference to Email dated 20/03/2019 and above mentioned subject, kindly find the attachment consisting of syllabus related suggestions. This is the outcome of feedback from our alumni, industry, current students & faculty member of MIT Arts, Commerce & Science College, Alandi (D), Pune.

Kindly Consider the Same.

*Read*  
Mrs. Rashmi Y. Lad  
H.O.D Computer Science



*[Signature]*  
Dr. B.B. Waphare  
Principal



Encl:

- 1) B.Sc. Computer Science Suggestions
- 2) M.Sc. Computer Science Suggestions

Copy to: Dy. Register, Academic Section, Savitribai Phule Pune University, Pune.

## 1) B.Sc. Computer Science Suggestions: -

### F.Y. B.Sc. Computer Science

1. Object Oriented Concept using C++ can be Introduced to students instead of Programming in C; mostly all basic of program structure, Tokens, control flow & functions can be taught using C++ In Semester - I and OOP Concepts can be introduced in Semester - II.
2. Introduce HTML , CSS If possible

### SY.B.Sc. Computer Science

1. Based on Point 1 in FY.B.Sc., Data Structure & Algorithms can be taught using C++ in Semester - III

### TY.B.Sc. Computer Science

1. Include following Subjects in DSE - I
  - a. Core Java
  - b. Programming in C#
2. Include following Subjects in DSE - II
  - a. Advance Java
  - b. ASP DotNet
3. Include following Subjects in DSE - III
  - a. Python Programming
  - b. Android Programming

### Course : - F.Y.B.Sc. Computer Science

	Type of Course	Semester - I	Suggestion
Theory Paper - I	C	Problem Solving using Computer & C programming - I	Contents till functions in C should be covered
Theory Paper - II	GE	Database Management System -I	File Organization contents can be reduced / exempted
Practical Paper - I	C	Lab on Problem Solving using C	Contents till functions in C should be covered
Practical Paper -II	GE	Lab on DBMS	Labs on CRUD operations



	Type of Course	Semester - II	Suggestion
Theory Paper - I	C	Problem Solving using Computer & C programming - II	-
Theory Paper - II	GE	Database Management System -II	Exclude Transaction Management Concepts
Practical Paper - I	C	Lab on Problem Solving using C	-
Practical Paper -II	GE	Lab on DBMS	Lab on View,Cursor,triggers

**Course: - S.Y.B.Sc. Computer Science**

	Type of Course	Semester - III	Suggestion
Theory Paper - I	C	Data Structure & Algorithms	-
Theory Paper - II	GE	Software Engineering	Object Oriented Software Engineering Concepts to be included
Practical Paper - I	C	Lab on Data Structures	-
Practical Paper -II	GE	Project using SE	

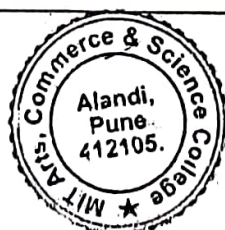
	Type of Course	Semester - IV	Suggestion
Theory Paper - I	C	Operating System	-
Theory Paper - II	GE	Networking	-
Practical Paper - I	C	Lab on Operating System	-
Practical Paper -II	GE	Lab on Networking	-



**Course: - T.Y.B.Sc. Computer Science**

	Type of Course	Semester - V	Suggestion
Theory Paper - I	GE	Digital Image Processing	-
Theory Paper - II	C	Theory of Computation	-
Theory Paper - III	C	Object Oriented Programming - I	-
Theory Paper - IV	GE	Web Technology - I	-
Theory Paper - V	GE	Advance Networking	-
Theory Paper - VI	DSE- I	Elective - I	-
Practical Paper - I	C	Lab on Object Oriented Programming	-
Practical Paper -II	GE	Lab on Web Technology	Include labs with HTML5, CSS , Ajax
Practical Paper - III	GE	Project based on Digital Image Processing	-

	Type of Course	Semester - VI	Suggestion
Theory Paper - I	GE	Data Analytics	Data Analytics using R / Python. Intro to big data, machine learning.
Theory Paper - II	GE	Compiler Construction	-
Theory Paper - III	GE	Object Oriented Programming - II	Include introduction to spring & hibernate
Theory Paper - IV	GE	Web Technology - II	Include Angular JS



Theory Paper - V	DSE - II	Elective - II	-
Theory Paper - VI	DSE- III	Elective - III	-
Practical Paper - I	GE	Lab on Data Analytics	Lab using Python / R
Practical Paper -II	GE	Lab on Advance Java	-
Practical Paper - III	GE	Lab on Web Technology - II	Include lab on Angular JS

R Lad  
**Mrs. Rashmi Y. Lad.**  
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 MIT ACSC Alandi (D)  
 Pune - 412105  
 hodbcs@mitacsc.ac.in

## 2) FY.M.Sc. Computer Science Suggestions:-

1. Group the DSE semester wise and include following subjects as these subject are not introduced to current year graduating students
  - a. C# and ASP DotNet
  - b. Data Mining and Warehousing
  - c. Business Intelligence
  - d. Full Stack Development (Bootstrap , Angular JS , Github etc ...)
  - e. Advance DataBases & Concepts (eg. NOSQL/ Hbase)
  - f. Big Data & Hadoop ( ETL )
  - g. Android Development
  - h. Hibernate , Struts & Spring

*Read*  
**Mrs. Rashmi Y. Lad.**

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**BBA and BBA IB Restructuring \_ Business Demography 106 and Principles of Finance 203**

2 messages

Tue, May 7, 2019 at 2:59 PM

Mangesh Bhople <mmbhople@mitacsc.ac.in>  
To: tanuja.devi@yahoo.co.in

Respected Madam,

Please find attached the files of syllabus for FYBBA Sem I to be implemented from AY. 2019-20.

I have highlighted the contents in green colour which I have thought to add in the syllabus and highlighted the contents in red colour which I think to delete from the existing syllabus and the spell or re-composition of statements / words in yellow colour.

Please do the needful.

Encl:

Edited files of :

1. Business Demography 106 and
2. Principles of Finance 203

—  
**Thanks & Regards,**

—  
**Mangesh M. Bhople,**  
**Asst. Professor, Dept. of BBA and BBA IB,**  
**MAEER's MIT, ACSC, Alandi (D), Pune**  
**E-mail: mmbhople@mitacsc.ac.in**  
**Contact No.: 91-9011870589**

2 attachments

 **Principles of Finance.docx**  
19K

 **Business Demography.docx**  
17K



Mangesh Bhople <mmbhople@mitacsc.ac.in>  
To: HOD BBA <hodbbba@mitacsc.ac.in>

Thu, Nov 14, 2019 at 3:24 PM

[Quoted text hidden]

**Thanks & Regards,**

—  
**Dr. Mangesh M. Bhople,**  
**Asst. Professor, Dept. of BBA**  
**MAEER's MIT, ACSC, Alandi (D), Pune**



13/2020

MIT Arts, Commerce and Science College, Alandi Mail - BBA and BBA IB Restructuring \_ Business Demography 106 and Principles of Fi..

**E-mail: mmbhople@mitacsc.ac.in**

**Contact No.: 91-9011870589**

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**2 attachments**



**Principles of Finance.docx**  
19K



**Business Demography.docx**  
17K



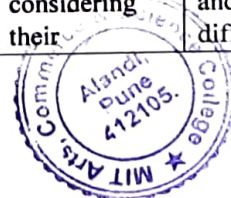
# Principles of Finance

Course Code – 203

Depth of Course- Reasonable working knowledge:

1. To cultivate right approach towards money , finance , and its role in business
2. To develop right understanding regarding various sources of finance and their role and utility in business
3. To develop basic skills as to concept of capital structure and concept of capital structure

Unit No.	Unit Title	Contents	Purpose	Skills to be develop	Expected Outcome	Innovative methods to be used	AV Applications	Project
1	<b>Unit 1 Basic concepts in finance</b>  MCQ on role and importance of finance and business  Discuss/debate on implications of finance on business success  Presentations on assessing financial need and financial needs in business	Definition - Nature and scope of finance function, Financial Management - Meaning - Approaches: - Traditional, Modern, Role of finance manager	To understand role and importance in business	Ability to understand implication of finance on business	To develop Competence to apply various concept in finance for decision making to	Presentation on how finance helps in org .business successfully  Presentation on identifying different needs of finance activities	Short films on Finance and business activities	Estimation on financial needs of small and tiny business needs  Assessing financial fusibility of a business venture
2	<b>Unit 2. Sources of Finance</b>  I Comparative analysis	External: - Shares, Debentures, Public Deposits,	To understand role and need of source of finance  How different	To learn about imp features and their applications considering their	To develop rational understanding regarding role and utility of different	Poster presentation on comparative analysis of sources of finance  Financial institution	Films on different institutions meeting different needs	Developing a suitable financial needs assessment chart



	<p>Of various sources of finance</p> <p>Selecting a right source of finance</p> <p>MCQ on various sources of finance</p>	<p>Borrowing from banks: - meaning, types, advantages and limitations of these sources,</p> <p>Internal: - Reserves and surplus, Bonus shares Retained earnings, Depreciation as internal source of finance</p>	<p>determinants of size and type of business</p> <p>Sources of business finance</p>	<p>requirements in business</p>	<p>sources of finance</p>	<p>who provide sources of finance</p>	<p>of finance</p>	<p>developing a checklist for developing source of fiancé</p>
<p>Unit 3</p> <p>Meaning criteria for determining capital structure. Factors affecting capital structure. Capitalization:- Meaning, over capitalization and under Capitalization - meaning, causes, consequences, remedy.</p>	<p>To Understand</p> <p>Analytical</p> <p>To understand importance of financial and financial ratios. To understand role of capital in business.</p> <p>Comparative</p> <p>Films on over and under capitalization.</p> <p>A report on</p>							





3.	<b>Unit 3. Financial Planning</b>  <b>MCQ on process of financial planning</b>  <b>Cases study on Financial planning of small, middle and large scale businesses</b>  <b>Designing on required financial plan</b>	<b>Meaning, objectives and process of financial planning.</b>  <b>Factors affecting financial planning, considerations / essentials for good financial plan.</b>  <b>Advantages and limitations financial planning</b>	<b>To Understand how to prepare good financial plan according to the need of the organization</b>	<b>Analytical ability to understand the requirements of financial planning as per the type and size of the company</b>	<b>To understand importance of rational and sound financial planning</b>  <b>To understand role of sources of finance in financial planning</b>	<b>Comparative analysis of financial structures of different companies</b>  <b>Determining need for appropriate financial planning</b>	<b>Films on a sound financial plans</b>	<b>A report on assessing capital needs of a business through financial planning</b>  <b>Evaluating a balance sheet</b>  <b>Whether the firm has proper financial plan</b>
4	<b>Recent Trends in business finance:-</b>  <b>I MCQ on Concepts ,applications on Capital, Leasing, Microfinance, Mutual Fund</b>  <b>II Presentations on utility of venture</b>	<b>Meaning and nature of</b>  <b>Venture Capital, Leasing, Microfinance, Mutual Fund</b>	<b>To understand new and emerging trends in business finance</b>	<b>Ability to understand about current issues related with new trends in business finance</b>	<b>To have right understanding how modern business is changing and what are the new trends in business finance</b>	<b>Presentation on emerging trends in business</b>  <b>Micro finance and mutual funds</b>  <b>Profile presentation on various mutual funds and venture capital financiers in</b>	<b>Films on contemporary trends in mutual fund in India</b>  <b>Films on venture capital and micro finance institutions in</b>	<b>A report on contribution of mutual funds in economy</b>  <b>Role of leasing industry in business finance</b>

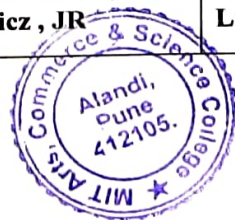




	capital and leasing in business					India	India	
	Profile of successful micro financing institutions							

Subject	Teaching Hours	Credit Points	Internal Evaluation	External Evaluation	Suggested Add on Course
Unit – I	10				Basic course in Financial markets
Unit – II	13				
Unit – III	09				
Unit – IV	13				
Unit – V					
Total –	45	3	40	60	

Sr. No.	Title of the Book	Author/s	Publication	Place
	Financial management – Theory and Practice	Prasanna Chandra	McGraw Hill Education	New Delhi
	Financial Management	I.M. Pandey	Vikas Publishing House Pvt. Ltd.	New Delhi
	Financial Management	Rajiv Srivastava , Anil Misra	Oxford – University Press	New Delhi
	Financial Management	P.V. Kulkarni , B.G. Satyaprasad	Himalaya Publishing House	Mumbai
	Fundamentals of Financial management	James C. Van Horne , John M. Wachowicz , JR	Prentice Hall of India Pvt. Lit.	New Delhi



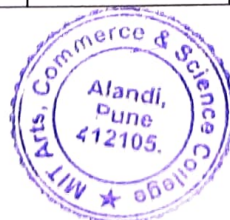
	<b>Financial management Comprehensive Text Book with Case Studies</b>	<b>Ravi M. Kishore</b>	<b>Taxmann's</b>	<b>New Delhi</b>
	<b>Financial management – recent Trends In Practical Application</b>	<b>Chandra HariharanIyer</b>	<b>International Book House Pvt. Ltd.</b>	<b>Mumbai</b>



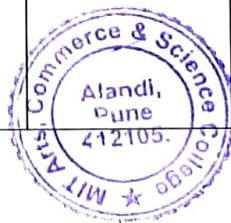
**Business Demography Code: 106****Depth of course: Reasonable working knowledge**

1. To give proper understanding regarding concept of demography in modern economic setup
2. To study how population and structure changes affecting quality of life and business
3. To develop clarity of concept regarding social economic process life urbanization and its impact on society

Unit No.	Unit Title	Contents	Purpose	Skills to be develop	Expected Outcome	Innovative methods to be used	AV Applications	Project
1	Concept of Demography Evaluation I MCQ on meaning concept and applications of demography II profile preparation on regional basis III Interpretation of data	Meaning, importance and need of demographic studies Study of demography as an essential discipline of socio-economic change Scope and components of Demography Factors affecting mortality , fertility rate Methods to calculate fertility and mortality rate	Growing importance of modern economics. And society	Develop Rational understanding of demography. Analysis and effects on society	Ability to understand the components of demography. Factors governing of a particular economics and government  Socio economic changes as a outcome of Demographic. Changes	Analysis of censes reports Examining the tends in population curve	Films on population explosion	Mapping of various components of Demography  Case study on impact on changes in demographic structure



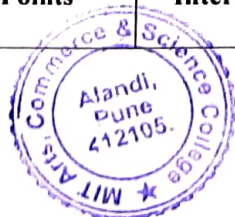
Unit No.	Unit Title	Contents	Purpose	Skills to be develop	Expected Outcome	Innovative methods to be used	AV Applications	Project
2	Distribution of population and population growth  Evaluation  MCQ on density of population various aspects of population  II Application based questions on measuring assessment of population of method  III analysis of particular aspect of censuses report	Density and <del>Distribution of population</del> Concept of over, under and <del>optimum</del> population  Method of assessment of population growth	To understand how population growth influences aspects on society	To develop understanding regarding growth process and social economic changes	Ability to examine how Demography changes and influences different aspects policy formulation and social development	Analysis of trends in variation population and its impact on budget ,economic planning and social development	A film on population explosion  A film on topography	A study of demographic changes in India  Difference provinces in India
3.	Population as resources  Presentation on HR and Development and growth  II Presentation on role of literacy on growth  III Interpretation of statistical data	Importance of human resource as development of the nation  Concept of literacy and its  Importance in modern society  Concept of sex ratio age and sex pyramid  Concept of working and dependent population,	To understand importance in modern and socio economic statues  To learn about literacy in economic development	Ability to examine implications of changes in population	To learn about implications of changes in population and structure of population on economy, society and basic natural resources	Designing of population pyramid  Developing charts of implications of changes in sex ratio of economy on society	Project on examining population change as a determinant  A film on relation on literary and development	





Unit No.	Unit Title	Contents	Purpose	Skills to be develop	Expected Outcome	Innovative methods to be used	AV Applications	Project
		<p>Concept of Human development Index</p> <p>Need to conserve and manage the local natural resources like water, land, trees and animals</p>	<p>To learn the role and effect of population in / on conservation of water, land, trees and animals</p>			<p>Preparing project/model on local available resources and feasible plan for its conservation</p>	<p>A film on relation on conservation of basic natural resources and sustainable development</p>	
4	<p>Urbanization and its implications</p> <p>GD on effects of urbanization on society</p> <p>II quiz on Urbanization on society</p> <p>III</p> <p>Poster o/exhibitions on urbanization of society</p>	<p>Concept of urbanization factors affecting urbanization. and rural population</p> <p>Features and importance</p> <p>Urbanization. Behavioral and demographic</p> <p>Structure and various factors responsible for urbanization</p>	<p>To understand the various determinants of urbanization and migration</p>	<p>Ability to understand how urbanization affects the resource allocation and resource planning</p>	<p>Equal and unequal Distribution of resources and factors of production and its impact on society</p>	<p>Prepare charts and Study of urbanization taken place from last two decades</p> <p>With its effects on business</p>	<p>Case studies on urbanization and sustainability and problems of over exploitation of recourses</p>	<p>Study of particular factor of production in district or state and their effects on various sectors</p>

Subject	Teaching Hours	Credit Points	Internal Evaluation	External Evaluation	Suggested Add on Course
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Unit – I	11				Basic course in Environmental awareness
Unit – II	12				
Unit – III	13				
Unit – IV	09				
Unit – V					
Total –	45	3	40	60	



**Savitribai Phule Pune University**

सावित्रीबाई फुले पुणे विद्यापीठ



**T. Y. B. Sc.**  
**(Computer Science)**

**CS-348 Laboratory Course II**  
**(Java Programming - II)**

(As per new syllabus w.e.f. academic year 2015-2016)

**Semester II**

**Name** \_\_\_\_\_ **Roll No.** \_\_\_\_\_

**College** \_\_\_\_\_ **Division** \_\_\_\_\_

**Academic Year** \_\_\_\_\_

**CO-ORDINATOR:**

**PROF. MS. POONAM PONDE**

NOWROSJEE WADIA COLLEGE, PUNE

**EDITED BY :**

**Ms. Poonam Ponde**

**INPUTS GIVEN BY :**

**Mr. Jeevan Tonde**

**Ms. Rasika Rahalkar**

**PREVIOUS EDITION AUTHORS:**

**Ms. Poonam Ponde**

**Mr. Jeevan Limaye**

**Mr. Sachin Bhoite**

**Ms. Kalpana Joshi**

## **ABOUT THE WORK BOOK**

- **OBJECTIVES OF THIS BOOK**

This lab-book is intended to be used by T.Y.B.Sc(Computer Science) students for Laboratory course – II (Java programming), Semester II.

The objectives of this book are

- a. Covers the complete scope of the syllabus.
- b. Bringing uniformity in the way course is conducted across different colleges.
- c. Continuous assessment of the students.
- d. Providing ready references for students while working in the lab.

- **How to use this book?**

This book is mandatory for the completion of the laboratory course. It is a Measure of the performance of the student in the laboratory for the entire Duration of the course.

- **Instructions to the students**

1. Students should carry this book during practical sessions.
2. Students should maintain a separate journal for the source code and outputs.
3. Student should read the topics mentioned in **Reading section** of this book before coming for the practical session.



4. Students should solve those exercises which are selected by Practical in-charge as a part of journal activity. However, students are free to solve additional exercises for more practice.
5. Each assignment will be assessed on a scale of 0 to 5 as indicated below.

i) Not done	0
ii) Incomplete	1
iii) Late Complete	2
iv) Needs improvement	3
v) Complete	4
vi) Well Done	5

- **Difficulty Levels**

**Self Activity :** Students should solve these exercises for practice only.

**SET A - Easy :** All exercises are compulsory.

**SET B - Medium :** At least one exercise is mandatory.

**SET C - Difficult :** Not Compulsory.

- **Instruction to the Instructors**

- 1) Choose appropriate problems to be solved by student by ticking box ☐
- 2) Make sure that students follow the instruction as given above.
- 3) After a student completes a specific set, the instructor has to verify the outputs and sign in the space provided after the activity.
- 4) Evaluate each assignment on a scale of 5 as specified above by ticking appropriate box.
- 5) The value should also be entered on assignment completion page of the respective Lab course.