

Syllabus

**Number of courses
that include
experiential learning
through project
work/field
work/internship
during the year
2020-2021**

1

Functional English

T.Y.B.A.

Paper VI

**Entrepreneurship
development, Project
Report & Oral
Communication in
English: advanced
(Practical Paper)**

**Paper VI Entrepreneurship development, Project Report & Oral Communication
in English: advanced (Practical Paper)**

OBJECTIVES

- Encouraging students to thrash out the possibility of self employment
- Providing them with basic sources of information regarding SSI
- Promoting the idea of self employment through field work, study reports and interviews
- Leading students to overall development of personality through key competency modules
- Initiating students into research through project report
- Furnishing basic information about ethics, business ethics, role of an individual in society so as to develop a value-base among students through Key Competency Modules
- Exposing students to work environment and work experience through visits and field work
- Creating a possibility of focused writing in the field of their interest

Term I

Lectures: 48 (Figures to the right indicate lectures allotted per topic)

Course Content

Unit I : Entrepreneurship Development

5

5

- Meaning and Concept of Entrepreneurship Development
- Factors affecting the growth of Entrepreneurship
- Benefits of Being an Entrepreneur
- Qualities of an Entrepreneur
- SWOT Analyses
- Functions of an Entrepreneur
- Unit II

4 +2 Practical

- Promotional steps for starting a Small Scale Industry
- Meaning, definition and types of SSI
- Role of the Government in promoting SSI
- Sources of Information: **Practical**
- District Industry Centre, MIDC, MS SSI Development Corporation, National Institute of E and Small Business Development (IESBUD), National E Development Board (NEDB), E D Institute of India (EDII), State Industrial Development Bank (SIDBI), MSEB, office of the Charity Commissioner

Unit II Service Industries: 4

- meaning, definition and scope,
- process of registration: small scale and service industries
- Similarities and difference between small scale and service industries

Unit III 15

Techno Economic Feasibility Assessment

- Primary Project Report
- Detailed Project Report
- Techno Economic Feasibility Report

Unit IV 3

- Personnel Management
- Meaning and Definition
- Recruitment and Selection
- Training

Unit V 7

- Legal Aspects
- Basic Knowledge of Income tax, sales tax, , VAT
- Factory Act and Payment of wages Act, shop act

Unit VI 8

Motivational Stories of Two Successful Entrepreneurs: Practical: Field work as well as reading biographies/ autobiographies.

Practical

Sr No	Title of the Practical	Objective	Mode
1	1Experiences of Entrepreneur	Identification of Entrepreneurial Qualities	Interview
2	2Pitfalls of Entrepreneurship	Problems faced by an Entrepreneur	Interview
3	Preparation of a project report	Understanding Techno Economic Feasibility Assessment	Project work
4	Modern Management Techniques	TechniqueTo study/survey the development of an Industry	Visit

Key Competency Modules

- Managing Professional Challenges
- General and professional Ethics

Term II A

I. Voice Culture, Voice Modulation: breath- control, sharpness, and volume of voice, pitch variation, pronunciation and intonation 2

The above will be tested in the external practical exam for 5 marks from the overall performance.

II. Preparing News Bulletin for Radio/TV containing international, national, regional, local and sports news 12

This bulletin will be prepared by students themselves and will not be downloaded. Students will work on it for the term and keep it ready before final practical exam for reading. A copy of the same will be submitted to the dept beforehand. (The students may be encouraged to transcribe their script phonemically)

III. Speech of about 5 to 7 minutes on a given topic. 12

Students will be encouraged to hear public speeches and write analysis of the same in their journal from the point of view of language, organization of thought, expressions of ideas and emotions, informativeness, use of illustrations, quotations, body language, effectiveness etc. They may be given a list of topics for practice as well as to write the outline plan of the speech they will make.

IV. Talking in a group- a 'free-talk' activity to test spontaneity, naturalness, vocabulary, initiation, cooperation, consistency in expressing opinion etc 12

B Project Report or exercises in creative performance in any one area of language-use studied in FE Syllabi 10

Suggestions for Teaching

- 1) *Extensive use of newspapers, radio and TV in the classroom is necessary*
- 2) *Teacher, with the help of the Head and Coordinator will plan the field and other activities beforehand and will prepare academic calendar*
- 3) *Students will be encouraged to spend more time with the department for fruitful activity*
- 4) *Guest lectures may be arranged from time to time*
- 5) *There will be insistence on students attending public speeches/ internet may be used for the same in absence of public functions*
- 6) *For project students must be able to use all the 4 language skills*
- 7) *As an option to project they may be encouraged to do exercise in any one area of language use studied in SY/TYFE syllabi; for example a student interested in newspaper may write articles, features, news of different types, letters to editors to show his/her proficiency in using language comfortably in that particular area. He may be encouraged to write several different headlines for the same news to show his creativity or a student interested in trying his/her language skills in the field of advertising may write copy of ads of different types (eg. Domestic, cosmetics, health drinks, social cause) for different media. The respective dept/college may give a certificate for such a student showing proficiency of language skills required for a particular vocation*

Evaluation Pattern

Internal Assessment 20

Annual Exam 80

Internal Assessment (Term Work)

total Marks 20

A) Practicals based on Units III & IV (Speech and talking in a group) of term II
20 marks

Participation in visits/activities

20 marks

Total to be reduced to

20 marks

B)Term End Examination

60 marks

Total to be reduced to

20 marks

Total of A and B to be reduced to

20marks

Pattern for Term End Examination:

5 questions of 12 mark each covering the entire portion.

Annual Examination (Practical)

80 marks

Pattern for the Annual Question paper

A:

Q1 Reading news for TV Radio – the students will present the News bulletin they have prepared as term work

10

Q2 Interaction with the examiner: regarding reports prepared on ED practical

20

B:

Viva on Project Report

50

Books recommended

- An Introduction to Academic writing Davis, Lloyd & Mackry, Susan
- Entrepreneurship Development: G.R. Basotia & K K Sharma.
- Strengthen Your English : Bhaskaran M (Oxford University Press)
- One Step Ahead Writing Reports : Selly John

2

Economics

S.Y.B.A.

Skill Enhancement

Course (SEC-1A)

Basic Concept of

Research

Methodology

SKILL DEVELOPMENT ACTIVITIES

(Any Three of the following)

(IMPORTANT NOTES - At the end of the course three point/ activities each should be selected for each semester (III & IV semester) from the different points given in the appendix.

The important questions and issue in your area should be considered and the issue / activities related to the subject should be given to the student accordingly . Such as Agriculture Sector ,farmers ,Cooperative Sector ,Small Scale Industries etc.)

1. Prepare a chart showing the steps of research.
2. Prepare a chart showing the sampling technique
3. Prepare Charts showing sources of primary data.
4. Prepare a chart showing sources of secondary data.
5. Construct a questionnaire to measure student's attitude towards the purchase of two wheelers / readymade garments etc.
6. Collect the data related to any schemes of your locality and present in front of the students.
7. Construct a questionnaire for collection of primary data on any Social issue.

Savitribai Phule Pune University
Skill Enhancement Course (SEC):

SYBA (Economics)
Basic Concept of Research Methodology

Credits: 02

Periods: 45

Marks: 50

	<p>Course outline:</p> <p>The course will be given in the form of lectures and practical work .Lectures will focus on research, especially with regard to sampling methods, data collection and data preparation. The course will focus on the practical implementation of diverse sample techniques. Students are expected to collect and classify the data.</p> <p>Aims and objectives of course:</p> <ul style="list-style-type: none">• To develop the understanding of the basic concept of research.• To develop the understanding of the basic framework of sampling and data collection..• To develop the understanding of various sampling methods and techniques.• To identify various sources of information for data collection.• To develop the understanding of the conducting survey on various issues. <p>Learning outcomes of course :</p> <p>On completion of the course, the student shall be able to</p> <ul style="list-style-type: none">• Demonstrate his/her understanding of sampling methods and the ability to use collection of data• Identify the appropriate sample techniques for different kinds of research questions• Identify the appropriate source of data in relation to the collection of research data.• Able to classify and present the collected data in the form of graph, bar diagram, chart etc	
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Semester III
Skill Enhancement Course (SEC): I

SYBA (Economics) - SEC -2A
Basic Concept of Research Methodology

Unit	Name and Contents	Number of Lectures
Unit 1	Introduction Of Research	10
1.1	Meaning and Definition of Research	
1.2	Types Of Research i)Basic or Pure or Fundamental Research ii)Applied Research iii)Action Research	
1.3	Importance Of Economics Research	
Unit 2	Research Design	10
2.1	Meaning of Research Design	
2.2	Need of Research Design	
2.3	Types of Research Design i)Exploratory Design ii)Descriptive Design iii)Experimental Design	
2.4	Concepts of Hypothesis and Importance	
Unit 3	Data Collection	10
3.1	Meanings and Definition of Data Collection	
3.2	Primary Data	
3.3	Secondary Data Sources	
SKILL DEVELOPMENT ACTIVITIES	SKILL DEVELOPMENT ACTIVITIES Continuous Assessment - (C. A.): To compete any Three Skill Development Activities from the prescribed syllabus, each activity for 05 marks	15
SEMESTER- IV SEC -2B - Skill Enhancement Course (SEC)-II		
Unit 1	Data Analysis	8
1.1	Meaning and Definition of Data Analysis	
1.2	Nature And Importance	
1.3	1.3.1 Graphs	
	1.3.2 Tabulations	

3

History

T.Y.B.A.

Introduction to

History

Level: S3

SAVITRIBAI PHULE PUNE UNIVERSITY

T.Y.B.A. HISTORY SYLLABUS

From 2015 -2016

INTRODUCTION TO HISTORY

LEVEL: S3

INTRODUCTION TO HISTORY

OBJECTIVES

- 1. To orient students about how history is studied, written and understood.**
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- 3. To understand the meaning of Evolution of Historiography.**
- 4. To study the Various Views of Historiography.**
- 5. To study the approaches to Historiography.**
- 6. To study the types of Indian Historiography.**
- 7. To describe importance of inter-disciplinary research.**
- 8. To introduce students to the basics of research.**
- 9. To acquaint the student with the recent research in History.**
- 10. Learn how to use sources in their presentation.**

FIRST TERM

1. Conceptual Study (08)

1.1 History

1.2 Heuristic

1.3 Archives

1.4 Oral History

1.5 Cronical

1.6 Sanad / Farman

1.7 Marxism

1.8 New Marxism

1.9 Modernism

1.10 Post - Modernism

1.11 Structuralism

1.12 Post – Structuralism

2. NATURE AND SCOPE OF HISTORY (10)

2.1 Meaning and Definition

2.2 Nature and Scope of History

2.3 Importance

3. SOURCES OF HISTORICAL RESEARCH

(10)

3.1 Primary and Secondary

3.2 Written and Un- written

3.3 Importance of Sources

4. HISTORICAL RESEARCH

(10)

4.1 Selection of Research Problem

4.2 Historical Methods

4.3 External Criticism

4.4 Internal Criticism

4.5 Interpretation

5. MAJOR ARCHIVES IN MAHARASHTRA: BRIEF STUDY

(10)

5.1 Mumbai Archives

5.2 Pune Archives

5.3 Bharat Itihas Sanshodhak Mandal, Pune

5.4 Nagpur Archives

5.5 Kolhapur Archives

5.6 V.K.Rajwade Itihas Sanshodhak Mandal, Dhule

5.7 Deccan College

SECOND TERM

6. HISTORY AND SOCIAL SCIENCE (10)

6.1 History and Geography

6.2 History and Political Science

6.3 History and Economics

6.4 History and Sociology

7. SCHOOL OF HISTORIOGRAPHY (10)

7.1 Imperialist

7.2 Nationalist

7.3 Marxist

7.4 Subaltern

7.5 Local History

8. HISTORIANS OF MAHARASHTRA (10)

8.1 V. K. Rajwade

8.2 G. S. Sardesai

8.3 T. S. Shejwalkar

8.4 G. H. Khare

8.5 J. Sarkar

9. INDIAN HISTORIANS

(10)

9.1 R. C. Mujumdar

9.2 K. A. Nilkanth Shastri

9.3 D. D. Kosambi

9.4 Romila Thapar

10. HISTORICAL STUDY TOUR OR PROJECT WORK

PROJECT WORK & EVALUATION SCHEME

1. Term end examination of 60 marks shall be held at the end of the first term.
2. Candidate shall submit a report of minimum 3000 words i.e. 10 to 15 pages to the department by end of the February.
3. A viva-voce should be conducted before theory examination and the results should be sent to the University as immediately
4. The result should be prepared as follows:
 - a) 60 marks of term end examination converted in to 20 marks
 - b) 50 marks Annual examination for 2 hours conducted by University of Pune Equal weightage for all topics
 - c) 30 Marks exam should be conducted by the department 20 marks for Project work & 10 marks Viva-voce exam.

BOOKS FOR STUDY

ENGLISH

1. Avneri S., Social and Political Thought of Karl Marx, Cambridge, 1968.
2. Barnes H.E., History of Historical Writing, Dover, New York, 1963.

3. Cannadinen David (Ed.), What is History Now?, Palgrave Macmillan, Basingstoke, 2002.
4. Carr E.H., What is History, Penguin Books, Harmondsworth, 1971.
5. Chitnis K.N., Research Methodology in History
6. Collingwood, R.G., The Idea Of History, Oxford University Press, New York, 1976.
7. Elton G.R., Practice of History, Blackwell, London, 2001.
8. E. Shridharan, A Textbook of Historiography 500 BC to AD 2000, Orient BlackSwan, New Delhi.
9. Grewal J.S., History and Historians of Medieval India, Guru Nanak University, Amritsar, 2000.
10. Langlois Ch, V. And Ch. Seignobos, Introduction to the study of History, Barnes and noble Inc. and Frank Cass and co., New York, 1966.
11. Mujumdar R.C., Historiography in Modern India, 1970.
12. Sarkar Sumit, Writing Social History, OUP, Delhi, 1998.
13. Sen S.P.(Ed.), Historians and Historiography in Modern India, Culcutta, 1973.
14. Shiekh Ali, History : Its Theory and Method, Macmillan Publication, Madras, 1972.
15. Tikekar S.R., On Historiography, Mumbai, 1964.
16. Wilkinson and Bhandarkar, Research Methdology in Social Sciences, Himalaya, New Delhi, 2002.

4

Geography

S.Y.B.A.

Practical Geography

Cartographic

Techniques,

Surveying and

Excursion/Village/

Project Report

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From 2015 -2016

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LEVEL: S3

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5

Geography

T.Y.B.A.

**Practical Geography
Techniques of Spatial
Analysis (S-4)**

Savitribai Phule Pune University, Pune

T.Y.B.A

Gg. 301: Techniques of Spatial Analysis (S-4)

Effective from-June-2015

Workload: Six periods per week per batch (12 students for per Batch)

(Examination for the course will be conducted at the end of academic year).

Objectives:

1. To Introduce the Students with SOI Toposheets and to acquire the Knowledge of Toposheet Reading/Interpretation.
2. To familiarize the students with the weather instruments and their applications in Geographical phenomena.
3. To acquaint the students with IMD weather maps and to gain the knowledge of weather map Reading / interpretation.
4. To train the students in elementary statistics as an essential part of geography.
5. To awareness about GIS among the students.

Section - I

Unit No.	Topic	Learning Points	Periods
1	Toposheets	a. Introduction to Survey of India (SOI) toposheets, Marginal Information, Grid reference, Conventional signs and symbols b. Types of toposheet/Indexing of toposheets i. 1: 1000000/Million sheet ii. 1:250000/Degree sheet/Quarter inch sheet iii. 1:100000/Half inch sheet iv. 1:50000/One inch sheet v. 1:25000 vi. 1: 5000	15
2.	Methods of Relief Representation	1. Methods of Relief Representation a. Qualitative :- Hachures, Hill shading, Layer Tint b. Quantitative:- Contours, Form lines, Bench Marks, Spot Heights, Triangulation Mark, Relative Height (r) 2. Representation of Relief features by Contours a. Concave Slope, Convex Slope, Steep Slope, Gentle Slope, Terraced / Uniform b. Conical Hill, Spur, Plateau, Ridge, Saddle, Pass, Cliff & Waterfall 3. Profile a. Drawing and Description of Cross Profile of any Region from toposheet b. Drawing and Description of Longitudinal Profile of a Road or a River	15
3.	Toposheet Reading, Interpretation & data generation	1. Reading of at least three SOI toposheets one each for Plain, Plateau and Mountainous/hilly Region 2. One day field Excursion for Orientation of toposheet, Observation and Identification of Geographical Features and Preparation of a Brief Report	15

4.	Application of Remote Sensing Techniques in Geography	1. Introduction of Aerial Photographs & Satellite Image 2. Stereoscopic View of Aerial Photographs & Satellite Image and Identification of Geographical features 3. Use of Computer open source software for visualization of Aerial Photographs & Satellite Image	15
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Section - II

5.	Weather Maps & Reading	a. Introduction to Weather Maps b. Symbols in Daily Weather Report used by India Meteorological Department (IMD) c. Isobaric pattern Cyclones, Anti cyclones, V shaped Cyclones, V Shaped Anti Cyclones , Col a. Reading of Weather Map of Three Seasons i. Summer ii. Monsoon iii. Winter b. One day visit to nearby weather station of IMD	12
6.	Geographical Data & Measures of Central Tendency	a. Spatial and Temporal data b. Discrete and Continuous series c. Grouped and Ungrouped data d. Meaning and description of central tendencies- Mean, Mode, Median e. Calculation of Mean, Mode, Median for ungrouped and grouped data (two examples each)	12
7.	Measures of dispersion	a. Variance and Standard deviation for ungrouped and grouped data (two examples each)	06
8.	Correlation & Regression Testing of Hypothesis,	a. Correlation and regression i. Concept of bivariate correlation and regression ii. Meaning of coefficient of correlation iii. Calculation of Pearson's Product-Moment iv. Correlation Coefficient (Two examples) v. Calculation of Spearman Rank order vi. Coefficient (Two examples) b. Parametric and Non-parametric tests i. Chi-square test (One-sample case only) ii. Student's t-test (Comparison of sample means)	10
9	Field Excursion/ Village Survey Report	a. One short tour of two days duration and preparation of tour report OR One long tour of more than five days duration anywhere in the country and preparation of tour report OR Village survey and preparation of report	20

Suggested Reading:

1. Aher A.B., Chodhari A. P. & Bharambe S.N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015
2. David Unwin, Introductory Spatial Analysis, Methuen, London, 1981.
3. Gregory, S. Statistical Methods and the Geographer, Longman, London, 1978.
4. Hammond R and P.S. McCullagh Quantitative Techniques in Geography: An Introduction, Clarendon Press, Oxford, 1974.
5. John P.Cole and Cuchlaine A. M. King, Quantitative Geography, John Wiley, London, 1968.
6. Johnston R. J., Multivariate Statistical Analysis in Geography, Longman, London. 1973.
7. Koutsoyiannis, Theory of Econometrics, Mcmillan, London, 1973.
8. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.

9. Aronoff S. Geographic Information Systems: A Management Perspective, DDL Publication Ottawa. 1989.
10. Burrough P.A . Principles of Geographic information Systems for Land Resource Assessment Oxford University Press, New York.1986.
11. Fraser Taylor D.R. Geographic information Systems. Pergamon Press, Oxford.1991.
12. Maquire D. J. M.F. Goodchild and D. W. Rhind (eds.). Geographic information Systems:Principles and Application. Taylor & Francis, Washington. 1991.
13. Mark S Monmonier . Computer-assisted Cartography. Prentice-Hall, Englewood Cliff, New Jersey, 1982.
14. Peuquet D.J. and D.F. Marble, Introductory Reading in Geographic Information Systems. Taylor & Francis, Washington.1990.
15. Star J and J. Estes. Geographic Information Systems: An Introduction. Prentice- Hall, Englewood Cliff, New Jersey, 1994.
16. Peter Haggett, Andrew D. Cliff, & Allan Frey, Location Methods Vol. I and II, Edward Arnold, London, 1977.
17. Misra, R.P. and Ramesh, A. Fundamentals of Cartography, McMillan Co., New Delhi,1986.
18. Pal, S.K. Statistics for Geoscientists — Techniques and Applications, Concept, New Delhi,1998.
19. Robinson, A.H. et al.: Elements of Cartography, John Wiley & Sons, U.S.A.,1995.
20. Sarkar A.:K Practical Geography: A Systematic Approach, Oriental Longman, Calcutta, 1997.
21. Singh, R.L. and Dutt, P.K.: Elements of Practical Geography, Kalyani Publishers, New Delhi,1979
22. Choudhar A. H., Choudhari J. V. Practical Geography, K. S. Publication, Pune (2013).

6

Geography

B.A. to B.A.

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Section - II

5.	Weather Maps & Reading	a. Introduction to Weather Maps b. Symbols in Daily Weather Report used by India Meteorological Department (IMD) c. Isobaric pattern Cyclones, Anti cyclones, V shaped Cyclones, V Shaped Anti Cyclones , Col a. Reading of Weather Map of Three Seasons i. Summer ii. Monsoon iii. Winter b. One day visit to nearby weather station of IMD	12
6.	Geographical Data & Measures of Central Tendency	a. Spatial and Temporal data b. Discrete and Continuous series c. Grouped and Ungrouped data d. Meaning and description of central tendencies- Mean, Mode, Median e. Calculation of Mean, Mode, Median for ungrouped and grouped data (two examples each)	12
7.	Measures of dispersion	a. Variance and Standard deviation for ungrouped and grouped data (two examples each)	06
8.	Correlation & Regression Testing of Hypothesis,	a. Correlation and regression i. Concept of bivariate correlation and regression ii. Meaning of coefficient of correlation iii. Calculation of Pearson's Product-Moment iv. Correlation Coefficient (Two examples) v. Calculation of Spearman Rank order vi. Coefficient (Two examples) b. Parametric and Non-parametric tests i. Chi-square test (One-sample case only) ii. Student's t-test (Comparison of sample means)	10
9	Field Excursion/ Village Survey Report	a. One short tour of two days duration and preparation of tour report OR One long tour of more than five days duration anywhere in the country and preparation of tour report OR Village survey and preparation of report	20

Suggested Reading:

1. Aher A.B., Chodhari A. P. & Bharambe S.N. Techniques of Spatial Analysis Prashant Publication Jalgaon 2015
2. David Unwin, Introductory Spatial Analysis, Methuen, London, 1981.
3. Gregory, S. Statistical Methods and the Geographer, Longman, London, 1978.
4. Hammond R and P.S. McCullagh Quantitative Techniques in Geography: An Introduction, Clarendon Press, Oxford, 1974.
5. John P.Cole and Cuchlaine A. M. King, Quantitative Geography, John Wiley, London, 1968.
6. Johnston R. J., Multivariate Statistical Analysis in Geography, Longman, London. 1973.
7. Koutsoyiannis, Theory of Econometrics, Mcmillan, London, 1973.
8. Maurice Yeats, An Introduction to Quantitative Analysis in Human Geography, McGraw Hill, New York, 1974.

9. Aronoff S. Geographic Information Systems: A Management Perspective, DDL Publication Ottawa. 1989.
10. Burrough P.A . Principles of Geographic information Systems for Land Resource Assessment Oxford University Press, New York.1986.
11. Fraser Taylor D.R. Geographic information Systems. Pergamon Press, Oxford.1991.
12. Maquire D. J. M.F. Goodchild and D. W. Rhind (eds.). Geographic information Systems:Principles and Application. Taylor & Francis, Washington. 1991.
13. Mark S Monmonier . Computer-assisted Cartography. Prentice-Hall, Englewood Cliff, New Jersey, 1982.
14. Peuquet D.J. and D.F. Marble, Introductory Reading in Geographic Information Systems. Taylor & Francis, Washington.1990.
15. Star J and J. Estes. Geographic Information Systems: An Introduction. Prentice- Hall, Englewood Cliff, New Jersey, 1994.
16. Peter Haggett, Andrew D. Cliff, & Allan Frey, Location Methods Vol. I and II, Edward Arnold, London, 1977.
17. Misra, R.P. and Ramesh, A. Fundamentals of Cartography, McMillan Co., New Delhi,1986.
18. Pal, S.K. Statistics for Geoscientists — Techniques and Applications, Concept, New Delhi,1998.
19. Robinson, A.H. et al.: Elements of Cartography, John Wiley & Sons, U.S.A.,1995.
20. Sarkar A.:K Practical Geography: A Systematic Approach, Oriental Longman, Calcutta, 1997.
21. Singh, R.L. and Dutt, P.K.: Elements of Practical Geography, Kalyani Publishers, New Delhi,1979
22. Choudhar A. H., Choudhari J. V. Practical Geography, K. S. Publication, Pune (2013).

7

Physics

T.Y.B.Sc.

**PH-349 Laboratory
Course III (Project)**

SavitribaiPhule Pune University

Proposed structure of T. Y. B. Sc. (Physics) revised syllabus

To be implemented from 2014-2015

Sem III	Sem IV
PH-331: Mathematical Methods in Physics II	PH-341 Classical Electrodynamics
PH-332: Solid State Physics	PH-342: Quantum Mechanics
PH-333: Classical Mechanics	PH-343: Thermodynamics and Statistical Physics
PH-334: Atomic and Molecular Physics	PH-344: Nuclear Physics
PH-335: Computational Physics	PH-345: Electronics/Advanced Electronics
PH-336 Elective I : (Select any One)	PH-346 Elective II : (Select any One)
A: Astronomy and Astrophysics	G: Medical Electronics
B: Elements of Materials Science	H: Physics of Nanomaterials
C: Motion Picture Physics	I: Microcontrollers
D: Biophysics	J: Electro Acoustics and Entertainment Electronics
E: Renewable Energy Sources	K: Lasers
F: Applied Optics	L: Radiation Physics
PH-347: Laboratory Course I PH-348: Laboratory Course II PH-349: Laboratory Course III (Project)	

T. Y. B. Sc. Physics
PH348 Laboratory Course III
Project

It is expected that

1. The student does work equivalent to about twenty laboratory experiments through out both the semesters in the third year.
2. One bears in mind that the project work is a practical course and it is intended to develop a set of skills pertaining to the laboratory work apart from the cognition of students. Therefore, the guides should not permit projects that involve no contribution on part of student.
3. The project must have a clear and strong link with the principles of basic physics and/or their applications.
4. The theme chosen should be such that it promotes better understanding of physics concepts and brings out the creativity in the students.
5. The evaluation of the project work must give due credit to the amount of the project work actually done by a student, skills shown by the student, understanding of the physics concepts involved and the presentation of the final report at the time of viva voce.
6. The viva voce should be conducted at least for thirty minutes per student. Extra care must be taken in the evaluation of projects done in a pair or group. Delegation of the work done by individuals must be sought from the students in such cases.
7. Any ready-made material used in the report (such as downloaded pages from the web) must be clearly referred to and acknowledged.

Time schedule for project work:

- (1) Allotment of Internal guide by 30th July
- (2) Submission of synopsis by 14th August
- (3) Project work revision – every week
- (4) First draft by 15th February
- (5) Final report submission by 5th March.

Any non-adherence to this norm should attract a penalty by way of deduction in the marks awarded to a student. It is recommended that the College will provide consumables/contingencies for every project, to the tune of Rs. 500/- each. It is also recommended that a teacher will look after 4 projects at one time.

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T.Y.B.B.A.

606 A- Finance

Special Paper IV

Finance Special Paper IV

Subject Name -: Cases in Finance/ Project

Course Code -: 606 A

The student shall write a project report on the topics selected under the guidance of a faculty and submit one hard binding copy and one soft copy of the same to the Principal of the college before 31st March. Soft copy should be conserved at college level. The project shall be assessed both internally (20 marks) and externally (30 marks). For external evaluation there will be a viva voce. Such viva-voce shall be conducted by a panel of two referees appointed by the University.

Total Lectures: 24 Project + 24 Cases in Finance = 48

Topics for Project:

1. Projected financial statements to be submitted to the bank for loan proposal.
2. Analysis & interpretations of financial statement with the help of Techniques like Ratio analysis, Fund flow Analysis, Cash flow Analysis.
3. Project related Insurance sector.
4. Working Capital Management.

The students can select any other topic related to finance, for their project in consultation with their respective teacher. At least ten cases covering the following aspects should be studied.

- A. Capital Budgeting
- B. Working Capital
- C. Cost of Capital

Total Lectures: 24 Project + 24 Cases in Marketing = 48

NOTE: Scheme of marking for this paper will be as follows:

Project work	30
Viva voce (conducted by internal as well as external to be appointed by University)	20
Theory Paper on cases in finance	50

	Total 100 marks

Project report should be evaluated by both internal and external examiner. Each examiner will allot marks out of 50 i.e. project work 30 marks and viva voce 20 marks. The total marks given by both internal and external examiner will be out of 100 and will be converted into marks out of 50.

Sample Case No 1:

Jay Industries Ltd. is considering purchasing a new machine. Two alternative models are under consideration. The comparative data of the two machines are as follows:

Particulars	Machine X	Machine Y
Cost of Machine	3,00,000	5,00,000
Estimated Life	10 years	10 years
Estimated Saving is Scrap p.a.	20,000	30,000
Additional Cost of Supervision p.a.	24,000	32,000
Additional Cost of Maintenance p.a.	14,000	22,000
Cost of Indirect Material p.a.	12,000	16,000
Additional Savings in Wages p.a	1,80,000	2,40,000

Rate of Taxation: 50% of the Profits. Assume Targeted Cost of Capital @ 10%. As a Finance Executive advice Management regarding which machine may be a profitable investment by calculating Annual Cash Flow, Payback Period, NPV and PL. Total PV @ 10% for 10 years = 6.144

Sample Case No 2:

The following information is related to Parekh Industries Pvt. Ltd., Pune. Budgeted Sales (78,000 units) Rs. 46.80 lakhs. 25% Sales are Cash Sales

Analysis of Selling Price

Raw Material	60% of Selling Price
Direct Labour	6.00 per unit
Variable Overheads	1.00 per unit
Fixed Overheads	5 Lakhs
	(Including Rs. 1, 10,000 as depreciation)

It is estimated that:

- (a) Holding Period of:
 - Raw Materials – 3 weeks
 - Work-in-Process – 1 week
 - Finished Goods – 2 week
- (b) Suppliers will give 4 weeks credit.
- (c) Customers are allowed 4 weeks credit.
- (d) Wages are paid after 4 weeks.
- (e) Lag in payment of overheads will be 2 weeks.
- (f) Cash in Hand Rs. 50,000.

Prepare a statement showing working capital requirement for a year using cash cost approach. Year = 52 weeks

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T.Y.B.B.A.

606 B- Marketing

Special Paper IV

Marketing Special Paper IV

Subject Name :- Cases in Marketing / Project

Course Code :- 606 B

Objectives:

To understand of application of theory into practice

The student shall write a project report on the topics selected under the guidance of a faculty and submit one hard binding copy and one soft copy of the same to the Principal of the college before 31st March. Soft copy should be conserved at college level. The project shall be assessed both internally (20 marks) and externally (30 marks). For external evaluation there will be a viva voce. Such viva-voce shall be conducted by a panel of two referees appointed by the University.

Total Lectures: 24 Project + 24 Cases in Marketing = 48

CASES STUDIES :- (50 Marks)

1. Introduction to Case Studies:-

Case – Meaning – Objectives of Case Studies –
Characteristics & Importance of Case Studies –
Guidelines for Case Studies & Cases Discussion.

2. Topics for Case Studies:-

- Advertising & Sales Promotions
- Consumer Behavior
- Buyer Behavior
- Industrial Marketing
- Service Marketing
- Brand Marketing
- Retail Marketing
- Rural Marketing
- Sales and Distribution Management
- International Marketing
- Marketing Research
- New & Existing Products
- E-Commerce / On-line Marketing

Sample Case No-1

Computer Consumables Ltd. (CCL) is a small scale company with a product portfolio consisting of printer Ribbons, Cartridges and Ink Jet refill packs. The company's turnover in its first year (i.e. year ending March 2014) is Rs. 2-5 crores. It has a marketing department consisting of one G.M. (Mktg.), one Sales Manager, one Dispatch Assistant and Five Sales Engineers covering Maharashtra and Gujarat. Next year's sales turnover target is Rs. 5 Crore. The G.M. (Mktg.) has proposed addition of two

Product/Brand Executives and twenty Sales Engineers. The Managing Director is not convinced of the utility of product/brand executives to his company. He also has hesitation about the return on investment (ROI) of additional Rs. 25 lakh towards salary of additional staff in marketing department.

- 1) Identify and allot new territories for Sales Engineers and the Sales Targets.
- 2) Develop an advertising plan for CCL.

Sample Case No-2

For unless the consumer walked into a retailer and specially asked for Frooti, the retailer might choose to push any other product, including those on which the retailer margins were higher or those that were then undertaking a major promotional activity. Indeed, the sales of Frooti had been falling over the years. Besides just competition from products in other categories, its market shares in the 'tetra pack' category was also gradually falling, as new players had entered the segment and were using the same packaging technique. Clearly, something needed to be done. Frooti had acquired an 'old boy' image, as a 'kids-only' product, perhaps due its 'tetra pack' packaging as opposed to the glass and PET bottles used by other beverage manufacturers. Consumers typically consumed the product using a straw, something seen as 'for kids'.

- (1) How could the brand re-position itself in the market? In particular, it needed to drop the perception of being only for kids.
- (2) What should Frooti have done when its market share was falling consistently?

Sample Case No -3

Jack and Jill of Goa, are two partners, engaged in the business of manufacturing and selling sports equipments under the brand name 'J2'. They cater to the needs of indoor and outdoor sports and recreation activities.

Recently they have acquired an imported sewing machine, which can stitch cotton as well as synthetic fabrics. The machine is being used to stitch anoraks, track-suits, tents, tent-covers, etc. The machine is so versatile, that it can stitch jackets, jerkins, rajais and quilts, which are so commonly used in central and northern states, in winter. Inspired by this impressive range of products, that they can create, Jack and Jill wish to chalk-out an elaborate marketing action-plan. Extend your advice for the following:

- (1) Analyze this case with suitable title.
- (2) Suggest Market Segmentation for their new non-sports products.

Reference Books:

1. Sales Management handbook – Forsyth Patrick
2. Sales Management – Richard R Still Edward W. Cundiff
3. Retail Management – Gibson Vedamani
4. Channel Management & Retail Management – Minal Dhotre
5. Advertising and Promotions – Belch & Belch
6. Marketing Management – Rajan Saxena
7. Principles of Marketing 9th Edition – Philip Kotler and Garry Armstrong

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T.Y.B.B.A.

606 C- Human

Resource

Management

Special Paper IV

Human Resource Management Special Paper IV

Subject Name :- Cases in Human Resource Management / Project

Course Code :- 606 C

Objectives:

To understand of application of theory into practice

Unit 1. Introduction to Case Studies:-

Case – Meaning – Objectives of Case Studies –Characteristics & Importance of Case Studies – Cases Discussion

Guidelines for Analyzing Case Studies on the following points

- Facts of the case
- Analysis
- Solution
- Action points
- Conclusion

Unit 2. Topics for Case studies:-

1. Recruitment and Selection
2. Training & Development
3. Working conditions
4. Salary and Wage Administration -Pay scales and Grades
5. Performance Management System
6. Grievance Handling
7. Settlement of Industrial disputes-Industrial Relations
8. Transfer- Promotion-Demotion
9. Labor Welfare
10. Retrenchment- Layoffs
11. VRS

Sample Case 1:

Sidhdheshwar Textile Ltd. is employing about 600 employees. During the last 6 to 7 years, the company is earning good profits. Due to general recessionary trends and other adverse factors, its profits are reduced beyond expectation. The internal unions of workers 'Solapur Majadur Sangh' and staff members (two separate unions) are insisting for 20% bonus, while the company is ready to give 15% bonus. Several rounds of negotiations were proved fruitless. Surprisingly, one day just before Diwali staff union decided to accept 15% bonus. The news was not welcomed by the Solapur Majadur Sangh. Some office-bearers of the Solapur Majadur Sangh charged the company to adopt 'divide and rule' policy. The company representatives refused to have done unfair labour practice. When the allegations were again made, company suspended six office-

bearers of Solapur Majadur Sangh, pending enquiry. The workers declared strike as a protest. The indefinite strike of workers deprived the other union's members 15% bonus, which was acceptable to them.

Questions:

- (a) Comment on the Industrial relations of the company in the context of bonus policy.*
- (b) What crucial role should the Personnel Manager play to ensure peace and harmony?*
- (c) Is the action of suspending union office-bearers correct? Examine pros and cons.*

Sample Case 2:

Mr. Patole is a Branch Manager of 'Janata Co-operative Bank Ltd.' at one of its village branches. His staff includes two clerks and one attender. Very often, Mr. Patole was left alone in the Bank after 5 p.m. to tally accounts, daybooks and complete all other formalities. On 30 December, Mr. Patole was working till past 2 a.m. tallying the accounts, since hardly one day was left for closing the accounts for the year. On this fateful night, the Branch Manager was attacked by a band of robbers, who looted the bank after brutally wounding Mr. Patole right hand, which had to be amputated, later. After his recovery, the Branch Manager applied for compensation. The Bank Management was of the opinion that Mr. Patole violated the job specifications by working beyond the stipulated hours of work. He, in its view, was not entitled to any compensation as the accident occurred during non employment hours. They also called for an explanation as to why the amount lost cannot be recovered from his salary and the provident fund.

Questions:

- (a) Analyze the case with suitable title.*
- (b) How do you justify the bank's stand in this case?*
- (c) What modifications do you suggest in job description to overcome such incidents in future?*

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Geography

M.A./M.Sc.

Sem. III & IV

Renewable Energy

Title: Renewable Energy

Eligibility: Bachelor's degree in any Faculty

Objectives: To create awareness of Environment quality

To develop skills in handling equipment's related to solar energy and Biogas

To create manpower in renewable energy

Course Structure: The course is equivalent to 4 credits . The course can be run in any of the four semesters.

Syllabus:

1. Basic concept of solar energy and its applications (1 credit)

Sun as Source of Energy, Availability of Solar Energy, Nature of Solar Energy, Solar Energy & Environment. Various Methods of using solar energy –Photothermal, Photovoltaic, Photosynthesis, Present & Future Scope of Solar energy.

Wind Energy: Basic concept and component of wind energy conversion, types of wind machines, Application of wind machine, Hybrid wind energy systems wind + diesel power, wind + conventional grid, wind + Photovoltaic system etc.

2. Assembly and maintenance (1 credit)

Solar charging, Solar air heating and cooling system, Thermal pad, Solar water Heaters, Solar cookers, Solar drying , Solar photovoltaic system, solar energy pumps.

3. Biogas (1 credit)

Importance of biogas technology, Different Types of Biogas Plants. Aerobic and anaerobic bioconversion processes, various substrates used to produce Biogas (cow dung, human and other agricultural waste, municipal waste etc.) Individual and community biogas operated engines and their use. Removal of CO₂ and H₂O, Application of Biogas in domestic, industry and vehicles. Bio-hydrogen production. Isolation of methane from Biogas and packing and its utilization, Introduction to gasifiers

4. Case study: Bio-gas Production from Kitchen waste (1 credit)

Case Study: Performance of Gasifier.

References

1. Biomass Renewable Energy – D.O.hall and R.P. Overeide
(John Wiley and Sons, New york, 1987)

2. Biomass for energy in the developing countries – D.O.Hall, G.W.barnard and P.A.Moss (Pergamon Press Ltd. 1982)

3. Thermo chemical processing of Biomass, Bridgwater A V.
4. Biomass as Fuel – L.P.White (Academic press 1981)
5. Biomass Gasification Principles and Technology, Energy technology review No. 67, T.B. Read (Noyes Data Corp. , 1981)

Methodology: Lectures supplemented with case studies that may include visits.

Assessment: Final assessment by written and group discussion. Skill based assessment will be as per the case study.

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M.Com.

Part-II

Special Elective

Subject – Group A

Advanced Accounting

& Taxation

Code-404

SPECIAL ELECTIVE SUBJECT - GROUP A (ADVANCED ACCOUNTING & TAXATION)
Subject: PROJECT WORK / CASE STUDIES Course Code: 404 Total Credits: 04

Project Work in Accounting and Taxation

A student can select any topic relating to principles practices and procedures of accounting auditing taxation and management accounting. Any topic from the syllabus of the papers studied at M Com. Part One or Part Two under special paper Accountancy & Taxation can be of a use. Pick up any unit studied and try to connect it to commercial word around e.g. in taxation a student has studied taxation of a company, then he can select a topic Tax Planning of a particular company or a study of taxation of an educational institute. On this line following areas have been listed out for project work in Accountancy.

Area of Project Work in Accounting:-

Following is the list of topics for project work in Accounting.

1. Financial statement Analysis of –
 - a. A Limited Company for 5 years
 - b. Five Companies of five different industries
 - c. Five companies of one industry e.g. Automobile, Engineering, Textile
 - d. Five banks from Private sector/Co-op. sector
2. Study of Working Capital Management of a large Company.
3. Study of Budgetary Control System of four Companies
4. Study of Management Information System of four Companies.
5. Procedure of preparation of Consolidated Balance Sheet by Holding Company having two / three subsidiaries companies.
6. Valuation of Shares of 10 unlisted Companies.
7. A study of Amalgamation/Merger of procedure of two Companies (Accounting procedure)
8. A comparative study of Accounting System of Hotel industry – Five Star, Three stars, large Hotel and small Hotel.
9. Comparative study of Accounting of Hospitals from Private sector, Trust and Small Hospital.
10. Study of Accounting for Grants to school, college, and institute.
11. Application of Inflation Accounting to a large Company's Balance Sheet.

12. Human Resource Accounting for Software, Marketing, Consulting Company
13. Preparation of Value Added Statements of a Company and its comparison with Conventional Accounting Statement.
14. Preparation of Economic Value Added Statement of a Company and its comparison with Conventional Accounting Statement.
15. A study of Application of Accounting Standards of five Companies.
16. Audit planning of five firms of Auditors.
17. A study internal Audit system of four companies.
18. Tax planning of 10 assesses
19. Tax Planning regarding purchase of House Property.
20. Tax planning of Partnership Firm/ Limited Company.
21. Taxation of Public Trust
22. A study of Perquisites and its impact on Taxable Income Employees from 10 different companies.
23. A study of ten Export Oriented Units from Taxation point of view.
24. Financial viability of five Co-operative Sugar Factories.
25. Comparative Study of Taxable Income of Individuals and HUFF
26. Problem of units paying Service Tax
27. Accounting for Tour and Travel business.
28. Comparative Study of Housing Loan Schemes of Banks and Financial Institutions.
29. Comparative Study of Fees Structure of Non-grant and Grant in Aid Educational Institutions.
30. A survey of 20 shareholders regarding utility of Published Annual Accounts of Company.
31. Study of Investment Pattern of 20 Individuals from Taxation point of view.
32. Preparation of Project Report for Small Scale Industry, Hotel, Xeroxing business, Computer Institute, Hospital, Transport Business, Petrol Pump
33. Ascertainment of Cost of Capital from Annual Accounts of five Companies.
34. A financial viability study of Sick Industrial Companies.
35. A study of Tax Audit Report of Non-Corporate and Corporate Assessess.
36. A study of Secretarial Audit Report of five companies.

37. A study of Cost Audit Report of two companies.
38. A study of Government system Audit of Commercial Undertaking / Local bodies.
39. Commentary on Public Accounts Committee of Central Government.
40. A comparative study of different Accounts Software e.g. Tally, SAP, ERP, Local Software etc.
41. Consolidation procedure of different units of an Educational Society.
42. A study of Significant Accounting Policies of different Companies from different Industries.
43. A study of Qualified Audit Reports of different Companies.
44. Comparative study of Advances of Credit Co-op. Societies and Urban Co-op Banks.
45. Preparation of Project Report of Agro based industries, Poultry Farming, Dairy business, Nursery, Horticulture farm.
46. A study of Vehicle Loan schemes of different Banks.
47. Excise Accounting at manufacturing unit.
48. A comparative study of NPA of Urban Co-op Banks
49. A study of Corporate Responsibility Statements of Annual Accounts of 10 Companies
50. A study of Cash Flow Statement from Annual Accounts of 10 Companies.
51. Accounting of Leasing and Finance Companies.
52. A study of Accounting of Electricity Company, (Tata Power, Ahmedabad Electricity Power Co. Ltd.)
53. An exemption under Income Tax Act, availed by 10 different assesses.
54. A comparative financial analysis of running of Luxury buses by private operators and State Transport Corporation.
55. Financial Analysis of Produce Exchanges at Taluka Level.
56. Comparative study of Annual Report of 3 Co-op Banks.
57. Comparative study of Annual Report of 3 Limited companies.
58. Various Accounting Policies followed by Financial Institutions.
59. Impact of IRAC Norms of financial position of any co-operative bank over last 3 years.
60. Audit classification of a Credit Co-op. Society for last 2 years.
61. Determination of Taxable Income of a Charitable Hospital as per Section 11, 12, 12A & 35 of I.T. ACT. Act. 1961.

- 62. Accounting Standards, their application by the limited company to its annual accounts.
- 63. Comparative study of effect of Depreciation Allowance on Book Profit & taxable profits of a limited company for 3 years including carried forward and set-off.
- 64. Analysis of any three recent cases decided by High Court.
- 65. Study of fraud cases detected by application of S.A.P.
- 66. Comparative study of Financial Statements of Educational Institutions for 2 years.
- 67. A study on E filing of Tax Returns- Income Tax, GST etc.
- 68. A study of Computerized Accounting system in any business unit.



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M.Com.

Part-II

Special Elective

Subject – Group G

Advanced Banking &

Finance

Code-415

SPECIAL ELECTIVE SUBJECT - Group G (Advanced Banking & Finance)

Subject: Recent Advances in Banking and Finance

Course Code: 415

Total Credits: 04

Objectives:

1. To enable students understand new developments in banking industry.
2. To keep the students abreast with the innovative practices introduced by RBI in day to day banking in India.
3. To enable the students to understand the various modern services offered by banks.
4. To give exposure of financial services offered by various agencies and financial adviser to students.

Skills to be developed:

1. To make aware about recent development in banking.
2. To expose them to technological changes brought in Indian banks.
3. Students shall learn and acquire the knowledge of latest development in Indian money market.
4. Students will acquire skills about recent development in Indian capital market.

Unit No.	Topic	Periods	Teaching Method	Course Outcome
1	Recent Developments in Banking: 1.1 Financial inclusion: Concept, Benefits, RBI guidelines, Economic Growth and financial inclusion, constraints. 1.2 Regulation with respect to management of NPAs and Maintenance of Capital adequacy norms. Bad assets management (Bad banks or companies). 1.3 Basel Norms: III and IV. 1.4 Micro Finance Institutions: role, prospectus and containers. 1.5 Customer service management: Customer education and Customer Relationship Management. Customers meet, Provisions of Consumer Protection Act. 1.6 The Banking Ombudsman Scheme, 2006 Concept of CAMELS rating in banks.	12	Lecture, PPT, Group Discussion, Library Work, Assignment, Use of internet	Students may understand the importance of Financial inclusion, progress till date of it, and also overview the role of micro financial institutions, customer management.

2	Technological Developments in Banks: Delivery channels 2.1 Core Banking, 2.2 Tele banking, 2.3 Mobile banking, 2.4 ATMs, 2.5 Internet Banking. 2.6 Electronic Funds Transfer: (BCS credit-debit, SWIFT, RTGS, and NEFT)	12	Lecture, PPT, Group Discussion, Library Work, Assignment	Students will be exposed to recent technological development in banking, and various electronic funds transfer.
3	Recent Developments in Money Market: 3.1 Role and functions: Call/ Notice / Term policy, Treasury Bills, Commercial paper and Certificate of Deposits. 3.2 Collateralized borrowing and lending obligations. (CBLD) 3.3 Money Market Mutual Fund. (Repos) Repurchase obligations (Market Repo & Repo with RBI) 3.4 Money market derivative and 3.5 Money market debt funds	12	Lecture, PPT, Group Discussion, Library Work, Assignment, Use of internet	Students shall learn recent development in money market and inclusion of modern debt instruments.
4	Recent Developments in Capital Market: 4.1 Recent reforms in the capital market with reference to primary market : Book building, Reverse book building mechanism (75%-100%), Green Shoe option, Online IPOs., Grading & IPO's 4.2 Secondary Market : organization, Regulation and functions of stock exchanges, listing and trading of securities, the BSE, the NSE, OTCEI, and the interconnected stock exchanges of India. The working of these stock exchanges using network. 4.3 Changing trends in foreign institutional investments (FII) Introduction of Depositories and Custodian Demat service, Options and futures trading in equity derivatives market, regulation by SEBI.	12	Lecture, PPT, Group Discussion, Library Work, Assignment, Use of internet	Students will understand the Recent developments took place in Indian Capital Market.
Total		48		

Recommended Books:

1. Financial Institution and Markets - a Global Perspective - Hazel J. Johnson

2. Foreign Exchange; International Finance-Risk Management-A.V. Rajwade
3. Financial Markets and Institutions- L.M. Bhole
4. International Financial Management-Eun/Resnick
5. International Financial Management, Markets, Institutions-James C. Baker-
6. Reserve Bank of India Bulletin
7. Annual Reports of IMF, World Bank, ADB.
8. Preeti Singh: Investment Management, Himalaya Publishing House, New Delhi.
9. Indian Economy (Latest Edition): Rudder Dutta, Gaurav Dutta, and Sundram, Himalaya Publishing House, New Delhi.
