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.

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.

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

SAVITRIBAI PHULE PUNE UNIVERSITY
Proposed Draft of
T.Y. B. Sc. COMPUTER SCIENCE SYLLABUS
TO BE IMPLEMENTED FROM ACADEMIC YEAR 2015-16
TITLE OF PAPER :Lab Course III – Programming in PHP & Project
Code No. : CS-349

Aim:
To understand the process of designing and implementing Web applications, using PHP.

Objective :-
1. Implement Simple PHP programs to solve simple problems

Syllabus

Sr. No	Topic	Lectures
PHP		
1	String manipulation	8 Lectures
2	Arrays	8 Lectures
3	Inheritance	8 Lectures
4	File Handling	8 Lectures
5	Form designing	8 Lectures
6	Database Connectivity	8 Lectures
7	Sessions and cookies	8 Lectures
8	Java script with AJAX	8 Lectures
Networking		
1	Setting a LAN Environment	4 Lectures
2	Configuring the Server	4 Lectures
3	Use of Service Primitives	4 Lectures
4	Use of Networking Tools	12 Lectures
Project		
1	Choose Project topic and Prepare problem description	
2	Study of Existing System	
3	Identifying users and functionalities of proposed system	
4	Preparing the Design of the proposed system- Data Design Screen and Report Designs	
5	Implementation	

Examination

Internal Marks: Project (20) Continuous Evaluation.

External Marks: One programs (30) (large program on PHP + small program PHP), networking(10)
– Internal, Lab book(10), Project(30) -20 Marks External + 10 Marks Internal for Project Demo
   before Final Practical Exam

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 Assesses.

36. A study of Secretarial Audit Report of five companies.

Syllabus for M.Sc. (Computer Science)
in affiliated colleges to University of Pune

(To be implemented from Academic year 2014-2015)

Credit Based System

Year/ Semester	Subject	Paper	Title of Paper	Hours/ Week	Credit	% of Assessment		
						IA	UE	Total
II Year Sem-III	Core	CS-301	Software Metrics & Project Management	4	5	50	50	100
	Core	CS-302	Mobile Computing	4	5	50	50	100
	Core	CS-303	Soft Computing	4	5	50	50	100
	Elective	CS-304	Project	4	5	50	50	100
	Elective	CS-305	Web Services	4	5	50	50	100
	Elective	CS-306	Database and System Administration	4	5	50	50	100
	Elective	CS-307	Functional Programming	4	5	50	50	100
	Elective	CS-308	Business Intelligence	4	5	50	50	100

Minimum Credit : 25, Maximum Credit : 35 Core Subject is compulsory, From elective courses student can select two course for minimum credit and four for maximum credit. IA :- Internal Assessment, UE :- University Examination

Year/ Semester	Subject	Paper	Title of Paper	Hours/ Week	Credit	% of Assessment		
						IA	UE	Total
II Year Sem-IV	Core	CS-401	Industrial Training /Institutional project	-	15	50	50	100
	Elective	CS-402	Parallel Computing	4	5	50	50	100
	Elective	CS-403	Embedded System	4	5	50	50	100
	Elective	CS-404	Software Quality Assurance	4	5	50	50	100
	Elective	CS-405	Modeling and Simulation	4	5	50	50	100

Core Subject is compulsory. If student had completed 85 credit within three semesters then no need to select any elective course otherwise student should select appropriate number of elective courses to minimum complete 100 credits.

IA :- Internal Assessment, UE :- University Examination

(ELECTIVE) CS 304: Project

➢ The Project can be platform, Language and technology independent.
➢ Project will be evaluated by project guide.
➢ Assessment will be done weekly in the respective batch.
➢ Evaluation will be on the basis of weekly progress of project work, progress report, oral, results and documentation and demonstration.
➢ You should fill your status of the project work on the progress report and get the Signature of project guide regularly. Progress report should sharply focus how much time you have spent on specific task. (The format of progress report is given as follow.)
➢ You should keep all signed progress report.
➢ Project will not be accepted if progress report is not submitted and all responsibility remains with student.
➢ Students should prepare design document using SE/UML techniques depends on your project.

About project Report: -
➢ The report should be typed on A4 size, executive bond paper for the final submission. The report should be in the good quality Rexene bound. We suggest, using one-and-half spaced printing, Times New Roman 12 font sizes for the normal text, 14-16 font sizes for headings & page titles.
➢ Number of copies:
For one project you should prepare 2 copies of the project report. One for yourself, one for college (**College copy can be in CD**).

Evaluation for internal 50 Marks

Description	Marks
UML Diagrams	10 M
Technology And Design Based First Demo	15 M
Project Technology Based 2 assignments	10 M
Second Demo	15M

Evaluation for external 50 Marks

Description	Marks
Demo	15 M
Report	15 M
Presentation	15 M
Viva	05M

(CORE) CS 401: Full Time Industrial Training/ Industrial Project

Period – Minimum 4 months

1. There will be a teacher coordinator for a group of students. A teacher coordinator will take care of joining letters from students along with other necessary submission listed below.

2. A student will have to submit 2 reports during the period of ITP to the Department of the college.

3. After the completion of the ITP, a student will have to submit a synopsis along with the project completion certificate from the respective industry/research institute /educational institute.

4. A student will submit one hard copy (Student Copy) and a soft copy's (preferably 2 CDs) of the work carried out towards ITP.

5. The project will be graded by the experts (One internal examiner, one external examiner(academic expert) and one industrial expert) as follows:

O – 75 and above	**C**– 50 and above	**F**- A student will have to carry out project once again for a complete semester
A – 65 and above	**D**– 45 and above	
B – 55 and above	**E**– 40 and above	

Important Note: A student can complete ITP with a research project of a teacher / an expert funded by the University of Pune/ a funding agency.

Evaluation for internal 50 Marks will be done according to Progress Report written by Teacher Coordinator

Evaluation for external 50 Marks will be done by Industrial Expert, Academic Expert and One Internal Examiner.