



SILVER OAK UNIVERSITY

College of Technology

Bachelor of Technology

Information Technology

Course Name: Major Project

Course Code:1010103495

Semester: 8th

Prerequisite: Project- I

Objective:

To upgrade student's practical skills so they can apply theoretical knowledge to generate ideas, formulate problems, analyze and solve real world problems by using the latest machines/technology/software / hardware/tools.

Teaching Scheme:

Teaching Scheme				
L	T	P	Contact Hours	Credit
-	-	20	20	10

**A Student will either

(a) Undertake a sizeable project, along with 3 other students (a group of max 4 students only) or individually that can be completed in minimum 12 weeks, involving survey of literature, development of new techniques and/or implementation of systems, writing of reports etc. under the guidance of one or more faculty members from the department. Project has to be carried out on some suitable topic related to respective branch.

OR

(a) Undergo online internship that can be completed in 12 weeks, under the guidance of faculty members from the department who will be maintaining their regularity of attending online internship.

OR

(a) Undergo offline internship/on the job training at company/organization/industry that can be completed in 12 weeks, under guidance of external industry mentor and internal faculty mentor.

The duration of project or internship will be twelve weeks. It has to be completed during the ongoing 8th Semester. The student will work on a project or internship which may be

assigned to him/her by company/industry mentor in coordination with institute mentor. The outcome of the project or internship/industrial training should be presented in the form of a report. The certificate of completion issued by concerned Industry is mandatory in case of internship and the same is required to be attached in the report.

Course of action for Project:

Group of Students should plan and organize their Project Work meticulously and get approval from the internal faculty guide of the respective department.

The following guidelines should be adhered to:

1. Students must carry out project work.
2. Students must opt for sufficient literature survey before project selection and continuously opt for guidance from guide, on how to formulate problem, analyze and find solution and present the solution.
3. A student should submit a brief proposal about the work to be carried out to a department committee formed by the head of department within 2 weeks, after selecting appropriate title and formulation of proper abstract.
4. Project must be started only after approval from the Internal faculty guide and Head of the Department.
5. Project Work can be small fabrication / experimental results/ simulations/ software development/ application development / Design & Analysis of System(s), real world case studies etc. depending on the branch of the student.
6. Project Work should be purely internal in nature (branch specific as internal faculty can provide guidance as and when required.). Inter-departmental projects will be approved only after discussion & permission of concerned head of the departments.
7. Internal guide(s) should be assigned to each team.
8. A Concise Project report should be submitted after completion of Project Work.
9. The number of records to be submitted is limited to team size + one (Departmental copy). 10) Hard binding of reports is mandatory and as per guidance of internal guide provided by the department.
10. Submission of work will be in terms of preparing reports and presentations.

Course of action for Internship:

1. The duration of internship will be a minimum 12 weeks.
2. Each student will be assigned a faculty as a mentor from the college.
3. Each student acquiring an internship (on the job training) will have an Industry personnel/industry expert as a point of contact for students and faculty. Industry personnel as a co-mentor will guide students on attaining required skills through proper on the job training.
4. Students at the start of internship will first get NOC from TPO cell and submit that NOC in industry and start internship. On completion of internship, students will acquire internship completion certificate on letter head of industry, one copy of which has to be submitted to TPO cell.
5. Students under guidance of Faculty (Mentor) and industry expert/personnel (Co-mentor) will complete his/her internship and prepare reports and deliver presentations.
6. Online internships will be permitted to students. Record of students appearing for online internships has to be maintained by the department.
7. A student should submit a brief proposal about the work to be carried out in the Internship to a department committee formed by the head of department within 2 weeks, after starting the internship.
8. Submission of work will be in terms of preparing reports and presentations. 11) Students should produce a successful internship completion certificate acquired from industry to department and Training and Placement Cell.

General Guidelines for Internship

Step 1: Request Letter/ Email from the Student should go to industry to allot various slots of minimum 12 weeks, well before the commencement of 8th Semester. Students request letter/profile/ interest areas may be submitted to industries for their willingness for providing the internship.

Step 2: Industry will confirm the internship slots and seat allocated for internships via Confirmation Letter/ Email to Student/Institute. Students arranging the internship themselves, will inform T& P Cell, SOU and will ask for NOC from T&P Cell, SOU.

Step 3: Students, after joining the Training at the concerned Industry / Organization, have to submit the No Objection Certificate to the Organization/Industry (Email in case of Online Internship).

Step 4: Students will undergo Internship at the concerned Industry / Organization under mentorship of Industry Mentor & Faculty mentor of Institute. In between Faculty Member(s) has to evaluate(s) the performance of students by visiting the Industry/Organization and Evaluation Report of the students' needs to be submit in department office with the consent of Industry persons/ Trainers.

Step 5: Students will submit a Training Report after completion of internship.

Step 6: Training Certificate to be obtained from industry and submit a copy to T&P Cell and Department each.

Step 7: List of students who have completed their internship successfully will be issued by the Training and Placement Cell to the Respective Department.

Course Outcomes:

CO	CO statement
CO-1	Plan And Estimate a Project/Internship duration.
CO-2	Generate ideas for project/internship work.
CO-3	Formulate problem/task statement for project/internship work.
CO-4	Design and analyze problems.
CO-5	Carry out calculations, solutions, iterations, experimental trials, implementation of coding or software work.
CO-6	Demonstrate results via worthy conclusions in the form of project report & power point presentations.

CO-PO-PSO Matrix:

Co. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO-1	3	1	1	1	1							1	1	2
CO-2	3	3	2	2	1							1	3	1
CO-3	3	2	2	2	1							1	3	3
CO-4	3	3	3	2	3							1	1	2
CO-5	3	2	2	3	3							1	1	3
CO-6	2	1	3	3	3			1		1		1	1	2