

MAR AUGUSTHINOSE COLLEGE RAMAPURAM



DEPARTMENT OF ELECTRONICS

*Scheme and Syllabus of
Value Added Course
2019*

MAVAC008

COMPUTER ASSEMBLING

BOARD OF STUDIES (BoS)

Chairperson :- Mrs. Siji Jacob (Asst. prof. Department of Electronics)

Members:-

1. Mr. Kishore (Asst. prof. Department of Electronics)
2. Mrs. Regina Sebastian (Asst. prof. Department of Electronics)
3. Mrs. Jomy Joseph (Asst. prof. Department of Electronics)
4. Mr. Jijo Sebastian (Asst. prof. Department of Electronics)

INTRODUCTION

The Value-Added Courses aims to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of students

AIM OF THE PROGRAMME

Understanding various aspects of the subject and acquiring methodological knowledge of them. Application of this knowledge in a suitable manner in required fields.

ELIGIBILITY FOR ADMISSIONS

All UG and PG students from various departments of the college. The number of intakes to the course is limited. The course can be offered only if there are at least 5 students opting for it.

MEDIUM OF INSTRUCTION: English.

DURATION OF THE COURSE

The duration of value-added course is 30 hours (including the hours of final examination) of which 15hrs theory and 15hrs for laboratory/demonstration/experimental activities and the course can have a maximum of three hours a day.

The value-added courses will be offered beyond the usual class hours and days of the college.

The value-added course will be a blend of theory classes / experimental learning / project-based learning / assignments / activity-based learning.

COURSE OBJECTIVES

The main objectives of the program are;

1. To bring an awareness about Computer assembling.
2. To bridge the skill gaps and make them ready for industry

3. To provide an opportunity to develop inter-disciplinary skill
4. With basic understanding of Computer assembling and practical knowledge making them able to configure a computer by themselves
5. The department provides value added courses for all staff members, villagers and students from all streams of courses.

COURSE OUTCOMES (Cos)

- CO1.Prepare students to get awareness about Computer assembling.
- CO2.To create and troubleshoot small computer assembling.
- CO3,To make them aware of using computer safely.

EVALUATION

1. The value-added courses shall be evaluated through an examination at the end of the course.
2. The duration of examination is two hours.
3. The total marks of the examination shall be 100

Components of Evaluation	Marks
Attendance	10
Assignment / Seminar	10
Project & Viva	30 (20+10)
External Examination	50
Total	100

Pattern of questions Paper

Sl. No.	Pattern	Marks	Choice of questions	Total marks
1	Short Answer/problem type	2	5/7	10
2	Short essay/problem	5	4/6	20
3	Essay/problem	10	2/4	20
Total				50

4. A committee consisting of the Head of the Department, the course coordinator and a senior faculty member nominated by the Head of the department shall monitor the evaluation process.

5. The list of students along with the marks and the grades earned may be forwarded to the Principal/Chief Superintendent of Examinations.
6. The Dept. course coordinator is responsible for maintaining and processing the record with regard to the course, assessment marks and results.
7. Certificates will be issued to those students with 75% attendance, timely submission of assignment and project and a minimum of 40% marks in the qualifying examination.

Grading Pattern

Grades are given **on a 7-point scale** based on the total percentage of marks, (*ISA+ESA*) as given below: -

Percentage of Marks	Grade
95 and above	S Outstanding
85 to below 95	A⁺ Excellent
75 to below 85	A Very Good
65 to below 75	B⁺ Good
55 to below 65	B Above Average
45 to below 55	C Satisfactory
35 to below 45	D Pass
below 35	F Failure
Absent	Ab

SYLLABUS

MAVAC008 Computer Assembling Total hours of instruction: 30 Hours

Unit 1. (5 Hours)

Knowing computer: What is Computer, Basic Applications of Computer; Components of Computer System, Central Processing Unit (CPU), VDU, Keyboard and Mouse, Other input/output Devices, Computer Memory, Concepts of Hardware and Software; Concept of Computing, Hard Disk, Data and Information; Connecting keyboard, mouse, monitor and printer to CPU and checking power supply.

Unit 2. (5 Hours)

Operating Computer using GUI Based Operating System: What is an Operating System; Basics of Popular Operating Systems; The User Interface, Using Mouse; Using right Button

of the Mouse and Moving Icons on the screen, Use of Common Icons, Status Bar, Using Menu and Menu-selection, Running an Application, Viewing of File, Folders and Directories, Creating and Renaming of files and folders, Opening and closing of different Windows; using help; Creating Short cuts, Basics of O.S Setup and installation; Driver installation and Common utilities.

Unit 3. (5 Hours)

Understanding MS-Office Word Processing: Word Processing Basics; Opening and Closing of documents; Text creation and Manipulation; Formatting of text; Table handling; Spell check, language setting and thesaurus; Printing of word document.

Unit 4 (5 Hours)

Making Small Presentation: Basics of presentation software; Creating Presentation; Preparation and Presentation of Slides; Slide Show; Taking printouts of presentation/handouts. Making Of an Excel Files: Brief idea about excel sheet preparation and create equations in excel files for easy calculations

Unit 5 (10 Hours)

Inside the PC: Opening the PC and identification. Study of different blocks, Assembling and disassembling.

DEMONSTRATIONS/PRACTICALS (20 Hrs)

1. Demonstration of PC Components.
2. Demonstration of OS Installations.
3. Demonstration of MS-office Installation and working with it.
4. Demonstration about presentation software
5. Training on PC Assembling and dissembling.

Assignment and Project

REFERENCES

1. Upgrading and Repairing PCs, Scot Mueller
2. All About Printers/Keyboards/Mouse, ManaharLotia, BPB Publishers
3. . All About Motherboards – Manahar Lotia, BPB Publishers
4. The Indispensable PC Hardware Book, 3rd Edition, Addison Wesley
5. Troubleshooting, Maintenance and Repairing PCs, Stephen Bigelow