| e from the acade | | e] | | | |
|---|--|--|--|--|--|
| SEMESTI | | | | | |
| | 21X - 111 | (Effective from the academic year 2017 -2018) SEMESTER - III | | | |
| | IA Marks | 40 | 40 | | |
| 04 | Exam Marks | 60 | | | |
| 50 | | | | | |
| | | 0.5 | | | |
| CREDIT | S – 04 | | | | |
| | | | Teaching Hours | | |
| quation, Clock R cation and Addres Modes, Assembl | ate, Performance Measu ses, Memory Operations y Language, Basic In | rement. Machine , Instructions and put and Output | 10Hours | | |
| | | | | | |
| Devices, Control | lling Device Requests, E | xceptions, Direct | 10 Hours | | |
| | | | | | |
| apping Functions | | | 10 Hours | | |
| | | | | | |
| Multiplication o | of Positive Numbers, | Signed Operand | 10 Hours | | |
| | | | | | |
| red Control, M ter Systems: Bas for embedded ap | ficro programmed Consic Concepts of pipelini | trol. Pipelining, ng, Examples of | 10 Hours | | |
| ourse, students wi | ill be able to: | | <u> </u> | | |
| | | | | | |
| - | | _ | ory. | | |
| | Operational Coquation, Clock Reation and Address Modes, Assemble routines, Additional Control of the Control of | Operational Concepts, Bus Structures, quation, Clock Rate, Performance Measuration and Addresses, Memory Operations Modes, Assembly Language, Basic Instructions, Encoder Operations, Additional Instructions, Encoder Operations, Controlling Device Requests, Ess, Standard I/O Interfaces – PCI Bus, SCS Ess, Standard I/O Interfaces – | Operational Concepts, Bus Structures, Performance — quation, Clock Rate, Performance Measurement. Machine ration and Addresses, Memory Operations, Instructions and Modes, Assembly Language, Basic Input and Output routines, Additional Instructions, Encoding of Machine Provided Provi | | |

- Illustrate hardwired control and micro programmed control. pipelining, embedded and other computing systems.
- Build simple arithmetic and logical units.

Question paper pattern:

The question paper will have ten questions.

There will be 2 questions from each module.

Each question will have questions covering all the topics under a module.

The students will have to answer 5 full questions, selecting one full question from each module.

Text Books:

1. Carl Hamacher, Zvonko Vranesic, Safwat Zaky: Computer Organization, 5th Edition, Tata McGraw Hill, 2002. (Listed topics only from Chapters 1, 2, 4, 5, 6, 7, 8, 9 and 12)

Reference Books:

1. William Stallings: Computer Organization & Architecture, 9th Edition, Pearson, 2015.