



1.1.1 The Institution ensures effective curriculum delivery through a well-planned and documented process.

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1.1.1 The Institution ensures effective curriculum delivery through a well-planned and documented process.

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2023-2024

Step I- Receipt of programme wise curriculum & Academic Calendar for the session from university

University Academic Calendar for First Year



RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
(University of Technology of Madhya Pradesh)
ACADEMIC CALENDAR FOR THE YEAR 2023 - 2024
FOR ALL DEGREE PROGRAMMES AND POST GRADUATE PROGRAMMES
(EXCEPT PHARMACY)

(Revised)

| S.No. | Particular | Ist Semester Schedule | IInd & IVth Semester Schedule |
|-------|--|---|--|
| 01. | Duration of Semester | July - December 2023 | January - June 2024 |
| 02. | Commencement of Classes | 04 th September 2023 | 26 th February 2024 |
| 03. | Student Induction Program (SIP) 21 Days Undergraduate | 04 th September 2023 | --- |
| 04. | I Sessional Exam/Mid/Sem. | 16 th - 21 st October 2023 | 01 st - 06 th April 2024 |
| 05. | Dussehra Holiday | 22 nd - 25 th Oct. 2023 | --- |
| 07. | Diwali Vacation | 11 th - 15 th Nov. 2023 | --- |
| 05. | II Sessional Exam/Mid/Sem. | 28 th Nov. - 04 th Dec. 2023 | 08 th - 16 th May 2024 |
| 06. | Submission of Examination Form i. Without late fee ii. With Late Fee | 01 st - 16 th December. 2023 18 th - 23 rd December 2023 | 20 th - 30 th June 2024 01 st - 08 th July 2024 |
| 07. | Last date of Teaching | 16 th December 2023 | 27 th June 2024 |
| 08. | Submission of internal marks to University | Upto 23 rd December 2023 | Upto 06 th July 2024 |
| 09. | End Semester Examination (Theory & Practical) | 26 th Dec. 2023 - 25 th Jan. 2024 | 09 th - 31 st July 2024 |
| 10. | Internship/End Sem. Break | --- | --- |
| 11. | Date of Result Declaration | End of February 2024 | End of August 2024 |

Note:

- During Mid Semester Examination, classes in the remaining periods will be conducted as per schedule.
- Depending upon monthly progress of syllabus extra classes would be organized by department during official holidays.
- III Mid Semester examination is optional. Students intending to appear in the III Mid Semester exam will contact their respective HODs for the examination.
- In case of late admission of lateral admission students, the institutions are advised to conduct extra classes to complete the syllabus within stipulated time.
- Winter vacation applicable for students only.

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University Academic Calendar



14/07/2023
RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
(University of Technology of Madhya Pradesh)
ACADEMIC CALENDAR FOR THE YEAR 2023 - 2024 [REVISED]
FOR ALL DEGREE PROGRAMMES AND POST GRADUATE PROGRAMMES

| 5. No. | Particular | III & V Semester Schedule | II Semester (Except B.Pharm & M.Pharm) & IV Semester Schedule |
|--------|---|--|--|
| 01. | Duration of Semester | July - December 2023 | January - June 2024 |
| 02. | Commencement of Classes | 01 st August 2023 | 19 th February 2024 |
| 03. | I Sessional Exam/Mid/Sem. | 15 th - 22 nd Sep. 2023 | 01 st - 06 th April 2024 |
| 04. | II Sessional Exam/Mid/Sem. | 26 th Oct. - 01 st Nov. 2023 | 01 st - 07 th May 2024 |
| 05. | Dussehra Holiday | 22 nd - 25 th Oct. 2023 | --- |
| 06. | Submission of Examination Form i. Without late fee ii. With Late Fee | 01 st - 17 th Nov. 2023 18 th - 27 th Nov. 2023 | 06 th - 23 rd May 2024 24 th - 29 th May 2024 |
| 07. | Diwali Vacation | 11 th - 15 th Nov. 2023 | --- |
| 08. | Last date of Teaching | 18 th November 2023 | 30 th May 2024 |
| 09. | Submission of Mid Semester & Sessional Marks to University | 16 th - 26 th Nov. 2023 | 22 nd - 31 st May 2024 |
| 10. | End Semester Examination (Theory & Practical) | 28 th Nov. - 27 th Dec. 2023 | 03 rd June - 05 th July 2024 |
| 11. | Submission of Practical marks to University | On the date of Practical Examination | On the date of Practical Examination |
| 12. | End Semester Break/ Internship | --- | 06 th - 20 th July 2024 |
| 13. | Winter ^e Vacation for teachers | 23 rd - 31 st December 2023 | 06 th - 20 th July 2024 |
| 14. | Declaration of Result | In the Month of January 2024 | In the Month of August 2024 |

Note:

- During Mid Semester Examination, classes in the remaining periods will be conducted as per schedule.
- Depending upon monthly progress of syllabus extra classes would be organized by department during official holidays.
- III Mid Semester examination is optional. Students intending to appear in the III Mid Semester exam will contact their respective HODs for the examination.
- In case of late admission of lateral admission students, the institutions are advised to conduct extra classes to complete the syllabus within stipulated time.
- Winter vacation applicable for students only.

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2023-2024

University Academic Calendar



RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
(University of Technology of Madhya Pradesh)
ACADEMIC CALENDAR FOR THE YEAR 2023 - 2024
FOR DEGREE PROGRAMMES AND POST GRADUATE PROGRAMMES

| S.No. | Particular | VII & IX Semester Schedule | VI, VIII & X Semester Schedule |
|-------|---|--|--|
| 01. | Duration of Semester | July - December 2023 | January-June 2024 |
| 02. | Commencement of Classes | 03 rd July 2023 | 05 th January 2024 |
| 03. | I Sessional Exany/Mid/Sem. | 21 st to 26 th August 2023 | 12 th - 17 th February 2024 |
| 04. | II Sessional Exam/Mid/Sem. | 16 th to 21 st October 2023 | 18 th to 23 rd March 2024 |
| 05. | Dussehra Holiday | 22 nd to 25 th October 2023 | --- |
| 06. | Submission of Examination Form i. Without late fee ii. With Late Fee | 25 th Oct. - 13 th Nov. 2023 | 01 st - 19 th April 2024 |
| | | 13 th - 19 th November 2023 | 20 th - 26 th April 2024 |
| 07. | Diwali Vacation | 11 th - 15 th November 2023 | --- |
| 08. | Last date of Teaching | 10 th November 2023 | 19 th April 2024 |
| 09. | Submission of Mid Semester & Sessional Marks to University | 13 th to 20 th November 2023 | 20 th - 27 th April 2024 |
| 10. | End Semester Examination (Theory & Practical) | 20 th Nov. - 22 nd Dec. 2023 | 30 th April - 31 st May 2024 |
| 11. | Submission of Practical marks to University | On the date of Practical Examination | On the date of Practical Examination |
| 12. | End Semester Break/ Internship | --- | 01 st - 30 th June 2024 |
| 13. | Winter/Summer Vacation for Teachers | 23 rd to 31 st December 2023 | 01 st - 30 th June 2024 |
| 14. | Declaration of result of final Year | In the Month of January 2024 | In the Month of June 2024 |

Note:

- During Mid Semester Examination, classes in the remaining periods will be conducted as per schedule.
- Depending upon monthly progress of syllabus extra classes would be organized by department during official holidays.
- III Mid Semester examination is optional. Students intending to appear in the III Mid Semester exam will contact their respective HODs for the examination.
- Winter vacation applicable for students only.

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Branch- Common to All Discipline

| | | | |
|-------|------------------------------------|----------|-----------|
| ES301 | Energy & Environmental Engineering | 3L-1T-0P | 4 Credits |
|-------|------------------------------------|----------|-----------|

The objective of this Course is to provide *an introduction to energy systems and renewable energy resources, with a scientific examination of the energy field and an emphasis on alternative energy sources and their technology and application.*

Module 1: Introduction to Energy Science:

Introduction to energy systems and resources; Introduction to Energy, sustainability & the environment; Overview of energy systems, sources, transformations, efficiency, and storage; Fossil fuels (coal, oil, oil-bearing shale and sands, coal gasification) - past, present & future, Remedies & alternatives for fossil fuels - biomass, wind, solar, nuclear, wave, tidal and hydrogen; Sustainability and environmental trade-offs of different energy systems; possibilities for energy storage or regeneration (Ex. Pumped storage hydro power projects, superconductor-based energy storages, high efficiency batteries)

Module2: Ecosystems

- Concept of an ecosystem; Structure and function of an ecosystem; Producers, consumers and decomposers; Energy flow in the ecosystem; Ecological succession; Food chains, food webs and ecological pyramids; Introduction, types, characteristic features, structure and function of the following ecosystem (a.)Forest ecosystem (b) Grassland ecosystem (c) Desert ecosystem (d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

Module 3: Biodiversity and its conservation

- Introduction – Definition: genetic, species and ecosystem diversity; Bio-geographical classification of India; Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values; Biodiversity at global, National and local levels; India as a mega-diversity nation; Hot-spots of biodiversity; Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts; Endangered and endemic species of India; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.

Module 4: Environmental Pollution

- Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards; Solid waste Management: Causes, effects and control measures of urban and industrial wastes; Role of an individual in prevention of pollution; Pollution case studies; Disaster management: floods, earthquake, cyclone and landslides.



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Module 5: Social Issues and the Environment

- From Unsustainable to Sustainable development; Urban problems related to energy; Water conservation, rain water harvesting, watershed management; Resettlement and rehabilitation of people; its problems and concerns. Case Studies

Environmental ethics: Issues and possible solutions. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case Studies Wasteland reclamation; Consumerism and waste products; Environment Protection Act; Air (Prevention and Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act; Issues involved in enforcement of environmental legislation; Public awareness.

Module 6: Field work

- Visit to a local area to document environmental assets- river/forest/grassland/hill/mountain
- Visit to a local polluted site-Urban/Rural/Industrial/Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes, etc.

REFERENCE

1. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc.
2. Clark R.S., Marine Pollution, Clarendon Press Oxford (TB).
3. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumabai,
4. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
5. Trivedi R.K., Handbook of Environmental Laws, Rules Guidelines, Compliances and Standards', Vol I and II, Enviro Media (R)
6. Boyle, Godfrey, Bob Everett, and Janet Ramage (Eds.) (2004), Energy Systems and Sustainability: Power for a Sustainable Future. Oxford University Press.
7. Schaeffer, John (2007), Real Goods Solar Living Sourcebook: The Complete Guide to Renewable Energy Technologies and Sustainable Living, Gaian



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New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, III-Semester

CS302 Discrete Structure

Objective-This course introduces the applications of discrete mathematics in the field of computer science. It covers sets, logic, proving techniques, combinatorics, functions, relations, Graph theory and algebraic structures. These basic concepts of sets, logic functions and graph theory are applied to Boolean Algebra and logic networks while the advanced concepts of functions and algebraic structures are applied to finite state machines and coding theory.

Course Contents

Set Theory, Relation, Function, Theorem Proving Techniques : Set Theory: Definition of sets, countable and uncountable sets, Venn Diagrams, proofs of some general identities on sets Relation: Definition, types of relation, composition of relations, Pictorial representation of relation, Equivalence relation, Partial ordering relation, Job-Scheduling problem Function: Definition, type of functions, one to one, into and onto function, inverse function, composition of functions, recursively defined functions, pigeonhole principle. Theorem proving Techniques: Mathematical induction, Proof by contradiction.

Algebraic Structures: Definition, Properties, types: Semi Groups, Monoid, Groups, Abelian group, properties of groups, Subgroup, cyclic groups, Cosets, factor group, Permutation groups, Normal subgroup, Homomorphism and isomorphism of Groups, example and standard results, Rings and Fields: definition and standard results.

Propositional Logic: Proposition, First order logic, Basic logical operation, truth tables, tautologies, Contradictions, Algebra of Proposition, logical implications, logical equivalence, predicates, Normal Forms, Universal and existential quantifiers. Introduction to finite state machine Finite state machines as models of physical system equivalence machines, Finite state machines as language recognizers

Graph Theory: Introduction and basic terminology of graphs, Planer graphs, Multigraphs and weighted graphs, Isomorphic graphs, Paths, Cycles and connectivity, Shortest path in weighted graph, Introduction to Eulerian paths and circuits, Hamiltonian paths and circuits, Graph coloring, chromatic number, Isomorphism and Homomorphism of graphs.

Posets, Hasse Diagram and Lattices: Introduction, ordered set, Hasse diagram of partially, ordered set,



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Computer Science and Engineering, III-Semester

CS302 Discrete Structure

Objective-This course introduces the applications of discrete mathematics in the field of computer science. It covers sets, logic, proving techniques, combinatorics, functions, relations, Graph theory and algebraic structures. These basic concepts of sets, logic functions and graph theory are applied to Boolean Algebra and logic networks while the advanced concepts of functions and algebraic structures are applied to finite state machines and coding theory.

Course Contents

Set Theory, Relation, Function, Theorem Proving Techniques : Set Theory: Definition of sets, countable and uncountable sets, Venn Diagrams, proofs of some general identities on sets Relation: Definition, types of relation, composition of relations, Pictorial representation of relation, Equivalence relation, Partial ordering relation, Job-Scheduling problem Function: Definition, type of functions, one to one, into and onto function, inverse function, composition of functions, recursively defined functions, pigeonhole principle. Theorem proving Techniques: Mathematical induction, Proof by contradiction.

Algebraic Structures: Definition, Properties, types: Semi Groups, Monoid, Groups, Abelian group, properties of groups, Subgroup, cyclic groups, Cosets, factor group, Permutation groups, Normal subgroup, Homomorphism and isomorphism of Groups, example and standard results, Rings and Fields: definition and standard results.

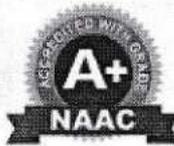
Propositional Logic: Proposition, First order logic, Basic logical operation, truth tables, tautologies, Contradictions, Algebra of Proposition, logical implications, logical equivalence, predicates, Normal Forms, Universal and existential quantifiers. Introduction to finite state machine Finite state machines as models of physical system equivalence machines, Finite state machines as language recognizers

Graph Theory: Introduction and basic terminology of graphs, Planer graphs, Multigraphs and weighted graphs, Isomorphic graphs, Paths, Cycles and connectivity, Shortest path in weighted graph, Introduction to Eulerian paths and circuits, Hamiltonian paths and circuits, Graph coloring, chromatic number, Isomorphism and Homomorphism of graphs.

Posets, Hasse Diagram and Lattices: Introduction, ordered set, Hasse diagram of partially, ordered set,


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New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, III-Semester

CS303 Data Structure

1. Review of C programming language. Introduction to Data Structure: Concepts of Data and Information, Classification of Data structures, Abstract Data Types, Implementation aspects: Memory representation. Data structures operations and its cost estimation. Introduction to linear data structures- Arrays, Linked List: Representation of linked list in memory, different implementation of linked list. Circular linked list, doubly linked list, etc. Application of linked list: polynomial manipulation using linked list, etc.
2. Stacks: Stacks as ADT, Different implementation of stack, multiple stacks. Application of Stack: Conversion of infix to postfix notation using stack, evaluation of postfix expression, Recursion. Queues: Queues as ADT, Different implementation of queue, Circular queue, Concept of Dqueue and Priority Queue, Queue simulation, Application of queues.
3. Tree: Definitions - Height, depth, order, degree etc. Binary Search Tree - Operations, Traversal, Search. AVL Tree, Heap, Applications and comparison of various types of tree; Introduction to forest, multi-way Tree, B tree, B+ tree, B* tree and red-black tree.
4. Graphs: Introduction, Classification of graph: Directed and Undirected graphs, etc, Representation, Graph Traversal: Depth First Search (DFS), Breadth First Search (BFS), Graph algorithm: Minimum Spanning Tree (MST)- Kruskal, Prim's algorithms. Dijkstra's shortest path algorithm; Comparison between different graph algorithms. Application of graphs.
5. Sorting: Introduction, Sort methods like: Bubble Sort, Quick sort. Selection sort, Heap sort, Insertion sort, Shell sort, Merge sort and Radix sort; comparison of various sorting techniques. Searching: Basic Search Techniques: Sequential search, Binary search, Comparison of search methods. Hashing & Indexing. Case Study: Application of various data structures in operating system, DBMS etc.

Text Books

1. AM Tanenbaum, Y Langsam & MJ Augstein, "Data structure using C and C++", Prentice Hall India.
2. Robert Kruse, Bruce Leung, "Data structures & Program Design in C", Pearson Education.

Reference Books

1. Aho, Hopcroft, Ullman, "Data Structures and Algorithms", Pearson Education.
2. N. Wirth, "Algorithms + Data Structure = Programs", Prentice Hall.
3. Jean - Paul Trembly, Paul Sorenson, "An Introduction to Structure with application", TMH.
4. Richard, Gilberg Behrouz, Forouzan, "Data structure - A Pseudocode Approach with C", Thomson press.




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isomorphic ordered set, well ordered set, properties of Lattices, bounded and complemented lattices.

Combinatorics: Introduction, Permutation and combination, Binomial Theorem, Multinomial Coefficients Recurrence Relation and Generating Function: Introduction to Recurrence Relation and Recursive algorithms, Linear recurrence relations with constant coefficients, Homogeneous solutions, Particular solutions, Total solutions, Generating functions, Solution by method of generating functions.

Outcome:-After this completion student will be familiar with relational algebra, Functions and graph theory.

References:

1. C.L.Liu, "Elements of Discrete Mathematics" Tata Mc Graw-Hill Edition.
2. Trembley, J.P & Manohar; "Discrete Mathematical Structure with Application CS", McGraw Hill.
3. Kenneth H. Rosen, "Discrete Mathematics and its applications", McGraw Hill.
4. Bisht, "Discrete Mathematics", Oxford University Press
5. Biswal, "Discrete Mathematics & Graph Theory", PHI




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New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, III-Semester

CS303 Data Structure

1. Review of C programming language. Introduction to Data Structure: Concepts of Data and Information, Classification of Data structures, Abstract Data Types, Implementation aspects: Memory representation. Data structures operations and its cost estimation. Introduction to linear data structures- Arrays, Linked List: Representation of linked list in memory, different implementation of linked list. Circular linked list, doubly linked list, etc. Application of linked list: polynomial manipulation using linked list, etc.
2. Stacks: Stacks as ADT, Different implementation of stack, multiple stacks. Application of Stack: Conversion of infix to postfix notation using stack, evaluation of postfix expression, Recursion. Queues: Queues as ADT, Different implementation of queue, Circular queue, Concept of Dqueue and Priority Queue, Queue simulation, Application of queues.
3. Tree: Definitions - Height, depth, order, degree etc. Binary Search Tree - Operations, Traversal, Search. AVL Tree, Heap, Applications and comparison of various types of tree; Introduction to forest, multi-way Tree, B tree, B+ tree, B* tree and red-black tree.
4. Graphs: Introduction, Classification of graph: Directed and Undirected graphs, etc, Representation, Graph Traversal: Depth First Search (DFS), Breadth First Search (BFS), Graph algorithm: Minimum Spanning Tree (MST)- Kruskal, Prim's algorithms. Dijkstra's shortest path algorithm; Comparison between different graph algorithms. Application of graphs.
5. Sorting: Introduction, Sort methods like: Bubble Sort, Quick sort. Selection sort, Heap sort, Insertion sort, Shell sort, Merge sort and Radix sort; comparison of various sorting techniques. Searching: Basic Search Techniques: Sequential search, Binary search, Comparison of search methods. Hashing & Indexing. Case Study: Application of various data structures in operating system, DBMS etc.

Text Books

1. AM Tanenbaum, Y Langsam & MJ Augustein, "Data structure using C and C++", Prentice Hall India.
2. Robert Kruse, Bruce Leung, "Data structures & Program Design in C", Pearson Education.

Reference Books

1. Aho, Hopcroft, Ullman, "Data Structures and Algorithms", Pearson Education.
2. N. Wirth, "Algorithms + Data Structure = Programs", Prentice Hall.
3. Jean - Paul Tremblay, Paul Sorenson, "An Introduction to Structure with application", TMH.
4. Richard, Gilberg Behrouz, Forouzan, "Data structure - A Pseudocode Approach with C", Thomson press.



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New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, III-Semester

CS304 Digital Systems

Unit 1: Review of number systems and number base conversions. Binary codes, Boolean algebra, Boolean functions, Logic gates. Simplification of Boolean functions, Karnaugh map methods, SOP-POS simplification, NAND-NOR implementation.

Unit 2: Combinational Logic: Half adder, Half subtractor, Full adder, Full subtractor, look-ahead carry generator, BCD adder, Series and parallel addition, Multiplexer – demultiplexer, encoder- decoder, arithmetic circuits, ALU

Unit 3: Sequential logic: flip flops, D,T, S-R, J-K Master- Slave, racing condition, Edge & Level triggered circuits, Shift registers, Asynchronous and synchronous counters, their types and state diagrams. Semiconductor memories, Introduction to digital ICs 2716, 2732 etc. & their address decoding. Modern trends in semiconductor memories such as DRAM, FLASH RAM etc. Designing with ROM and PLA.

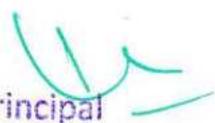
Unit 4: Introduction to A/D & D/A convertors & their types, sample and hold circuits, Voltage to Frequency & Frequency to Voltage conversion. Multivibrators :Bistable, Monostable, Astable, Schmitt trigger, IC 555 & Its applications. TTL, PMOS, CMOS and NMOS logic. Interfacing between TTL to MOS.

Unit 5: Introduction to Digital Communication: Nyquist sampling theorem, time division multiplexing, PCM, quantization error, introduction to BPSK & BFSK modulation schemes. Shannon's theorem for channel capacity.

References:

1. Morris Mano, Digital Circuits & Logic Design, PHI
2. Gothman, Digital Electronics, PHI
3. Tocci, Digital Electronics, PHI
4. Mavino & Leach, Digital Principles & Applications, PHI
5. Taub and schilling, Digital Integrated electronics.
6. Simon Haykin, Introduction to Analog & Digital Communication, Wiley.
7. Lathi B.P., Modern analog & digital communication , Oxford University.




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List of Experiments:

1. To study and verify the truth tables of various Logic gates
2. To verify the properties of NAND and NOR gates as Universal Building Blocks.
3. Simplification and implementation of a Boolean function
4. Implementation of basic Boolean arithmetic logic circuits such as Half-adder, Half-subtractor, Full adder and Full subtractor
5. Conversion from Binary to Gray and Gray to Binary code
6. To construct a binary multiplier using combinational logic and to verify with the truth table
7. To verify 2-bit Magnitude comparator for all possible conditions
8. Generation of various logical functions using 8-to-1 multiplexer
9. Construction of a 4-bit ripple counter and study of its operation
10. Operation of IC-555 Timer as Monostable, Astable and Bistable multivibrators
11. To characterize binary ladder type digital to analog (D/A) and analog to digital (A/D) converter
12. Comparison of various Logic families
13. Design and implementation of various types of flip-flops using JK flip-flop
14. To study natural sampling of continuous time waveforms using different sampling rates
15. To study Pulse-Code modulation with Time-division multiplexing (PCM-TDM)
16. To study generation and detection of BPSK and QPSK waveforms



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RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, VI-Semester

CS601 Machine Learning

COURSE OUTCOMES:

After Completing the course student should be able to:

1. Apply knowledge of computing and mathematics to machine learning problems, models and algorithms;
2. Analyze a problem and identify the computing requirements appropriate for its solution;
3. Design, implement, and evaluate an algorithm to meet desired needs; and
4. Apply mathematical foundations, algorithmic principles, and computer science theory to the modeling and design of computer-based systems in a way that demonstrates comprehension of the trade-offs involved in design choices.

COURSE CONTENTS:

THEORY:

Unit –I

Introduction to machine learning, scope and limitations, regression, probability, statistics and linear algebra for machine learning, convex optimization, data visualization, hypothesis function and testing, data distributions, data preprocessing, data augmentation, normalizing data sets, machine learning models, supervised and unsupervised learning.

Unit –II

Linearity vs non linearity, activation functions like sigmoid, ReLU, etc., weights and bias, loss function, gradient descent, multilayer network, backpropagation, weight initialization, training, testing, unstable gradient problem, auto encoders, batch normalization, dropout, L1 and L2 regularization, momentum, tuning hyper parameters,

Unit –III

Convolutional neural network, flattening, subsampling, padding, stride, convolution layer, pooling layer, loss layer, dance layer 1x1 convolution, inception network, input channels, transfer learning, one shot learning, dimension reductions, implementation of CNN like tensor flow, keras etc.




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Unit –IV

Recurrent neural network, Long short-term memory, gated recurrent unit, translation, beam search and width, Bleu score, attention model, Reinforcement Learning, RL-framework, MDP, Bellman equations, Value Iteration and Policy Iteration, Actor-critic model, Q-learning, SARSA

Unit –V

Support Vector Machines, Bayesian learning, application of machine learning in computer vision, speech processing, natural language processing etc, Case Study: ImageNet Competition

TEXT BOOKS RECOMMENDED:

1. Christopher M. Bishop, "Pattern Recognition and Machine Learning", Springer-Verlag New York Inc., 2nd Edition, 2011.
2. Tom M. Mitchell, "Machine Learning", McGraw Hill Education, First edition, 2017.
3. Ian Goodfellow and Yoshua Bengio and Aaron Courville, "Deep Learning", MIT Press, 2016

REFERENCE BOOKS:

1. Aurelien Geon, "Hands-On Machine Learning with Scikit-Learn and Tensorflow: Concepts, Tools, and Techniques to Build Intelligent Systems", Shroff/O'Reilly; First edition (2017).
2. Francois Chollet, "Deep Learning with Python", Manning Publications, 1 edition (10 January 2018).
3. Andreas Muller, "Introduction to Machine Learning with Python: A Guide for Data Scientists", Shroff/O'Reilly; First edition (2016).
4. Russell, S. and Norvig, N. "Artificial Intelligence: A Modern Approach", Prentice Hall Series in Artificial Intelligence. 2003.

PRACTICAL:

Different problems to be framed to enable students to understand the concept learnt and get hands-on on various tools and software related to the subject. Such assignments are to be framed for ten to twelve lab sessions.




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Course Outcomes: After completion of the course students will be able to

1. Characterize and appreciate computer networks from the view point of components and from the view point of services
2. Display good understanding of the flow of a protocol in general and a network protocol in particular
3. Model a problem or situation in terms of layering concept and map it to the TCI/IP stack
4. Select the most suitable Application Layer protocol (such as HTTP, FTP, SMTP, DNS, Bit torrent) as per the requirements of the network application and work with available tools to demonstrate the working of these protocols.
5. Design a Reliable Data Transfer Protocol and incrementally develop solutions for the requirements of Transport Layer
6. Describe the essential principles of Network Layers and use IP addressing to create subnets for any specific requirements

Unit -I

Computer Network: Definitions, goals, components, Architecture, Classifications & Types. Layered Architecture: Protocol hierarchy, Design Issues, Interfaces and Services, Connection Oriented & Connectionless Services, Service primitives, Design issues & its functionality. ISO-OSI Reference Model: Principle, Model, Descriptions of various layers and its comparison with TCP/IP. Principles of physical layer: Media, Bandwidth, Data rate and Modulations

Unit-II

Data Link Layer: Need, Services Provided, Framing, Flow Control, Error control. Data Link Layer Protocol: Elementary & Sliding Window protocol: 1-bit, Go-Back-N, Selective Repeat, Hybrid ARQ. Protocol verification: Finite State Machine Models & Petri net models. ARP/RARP/GARP

Unit-III

MAC Sub layer: MAC Addressing, Binary Exponential Back-off (BEB) Algorithm, Distributed Random Access Schemes/Contention Schemes: for Data Services (ALOHA and Slotted-ALOHA), for Local-Area Networks (CSMA, CSMA/CD, CSMA/CA), Collision Free Protocols: Basic Bit Map, BRAP, Binary Count Down, MLMA Limited Contention Protocols: Adaptive Tree Walk, Performance Measuring Metrics. IEEE Standards 802 series & their variant.

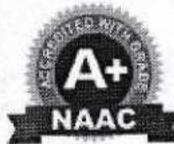
Unit-IV

Network Layer: Need, Services Provided, Design issues, Routing algorithms: Least Cost Routing algorithm, Dijkstra's algorithm, Bellman-ford algorithm, Hierarchical Routing, Broadcast Routing, Multicast Routing. IP Addresses, Header format, Packet forwarding, Fragmentation and reassembly, ICMP, Comparative study of IPv4 & IPv6




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Unit-V

Transport Layer: Design Issues, UDP: Header Format, Per-Segment Checksum, Carrying Unicast/Multicast Real-Time Traffic, TCP: Connection Management, Reliability of Data Transfers, TCP Flow Control, TCP Congestion Control, TCP Header Format, TCP Timer Management. Application Layer: WWW and HTTP, FTP, SSH, Email (SMTP, MIME, IMAP), DNS, Network Management (SNMP).

References:

1. Andrew S. Tanenbaum, David J. Wetherall, "Computer Networks" Pearson Education.
2. Douglas E Comer, "Internetworking WithTcp/Ip Principles, Protocols, And Architecture - Volume I" 6th Edition, Pearson Education
3. Dimitri Bertsekas, Robert Gallager, "Data Networks", PHI Publication, Second Edition.
4. Kaveh Pahlavan, Prashant Krishnamurthy, "Networking Fundamentals", Wiley Publication.
5. Uyles Black, "Computer Networks", PHI Publication, Second Edition.
6. Ying-Dar Lin, Ren-Hung Hwang, Fred Baker, "Computer Networks: An Open Source Approach", McGraw Hill.

List of Experiments:

1. Study of Different Type of LAN & Network Equipments.
2. Study and Verification of standard Network topologies i.e. Star, Bus, Ring etc.
3. LAN installations and Configurations.
4. Write a program to implement various types of error correcting techniques.
5. Write a program to Implement various types of framing methods.
6. Study of Tool Command Language (TCL).
7. Study and Installation of Standard Network Simulator: N.S-2, N.S3, OpNet, QualNet etc .
8. Study & Installation of ONE (Opportunistic Network Environment) Simulator for High Mobility Networks .
9. Configure 802.11 WLAN.
10. Implement & Simulate various types of routing algorithm.
11. Study & Simulation of MAC Protocols like Aloha, CSMA, CSMA/CD and CSMA/CA using Standard Network Simulators.
12. Study of Application layer protocols-DNS, HTTP, HTTPS, FTP and TelNet.




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New Scheme Based On AICTE Flexible Curricula

Computer Science and Engineering, III-Semester

CS305 Object Oriented Programming & Methodology

1. Introduction to Object Oriented Thinking & Object Oriented Programming: Comparison with Procedural Programming, features of Object oriented paradigm Merits and demerits of OO methodology; Object model; Elements of OOPS, IO processing.
2. Encapsulation and Data Abstraction- Concept of Objects: State, Behavior & Identity of an object; Classes: identifying classes and candidates for Classes Attributes and Services, Access modifiers, Static members of a Class, Instances, Message passing, and Construction and destruction of Objects.
3. Relationships – Inheritance: purpose and its types, 'is a' relationship; Association, Aggregation. Concept of interfaces and Abstract classes.
4. Polymorphism: Introduction, Method Overriding & Overloading, static and run time Polymorphism.
5. Strings, Exceptional handling, Introduction of Multi-threading and Data collections. Case study like: ATM, Library management system.

Text Books

1. Timothy Budd, "An Introduction to Object-Oriented Programming", Addison-Wesley Publication, 3rd Edition.
2. Cay S. Horstmann and Gary Cornell, "Core Java: Volume I, Fundamentals", Prentice Hall publication.

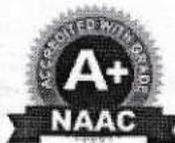
Reference Books

1. G. Booch, "Object Oriented Analysis & Design", Addison Wesley.
2. James Martin, "Principles of Object Oriented Analysis and Design", Prentice Hall/PTR.
3. Peter Coad and Edward Yourdon, "Object Oriented Design", Prentice Hall/PTR.
4. Herbert Schildt, "Java 2: The Complete Reference", McGraw-Hill Osborne Media, 7th Edition.



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Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024

The Institute adheres to academic calendar provided by the, University for Conduction of continuous internal evaluation system. The Institute academic calendar includes the dates of commencement and completion of syllabus, schedules of internal exams etc.

Students Grievance Redressal Committee.

Indore Institute of Science & Technology

IIST/June-23/10
Academic Year 2023-24
Date: 09/06/2023

Student's Grievance Redressal Cell

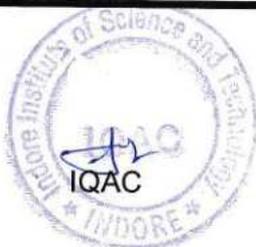
The Student's Grievance Redressal Cell has been constituted at IIST. The Student's Grievance Redressal Cell as per AICTE F.No.-1-101/PGRC/AICTE/Regulation/2019/9530-9537 (Clause No. 37-3/Legal/2012 of the AICTE) to ensure transparency and prevent unfair practices and to provide a mechanism to innocent students for redressal of their grievances: The following are the members of the Student's Grievance Redressal Cell as mention below:

| Sr. No. | Name | Designation | Email ID | Contact No. |
|---------|--|-------------|---|-------------|
| 1. | Dr. Keshav Patidar (Principal) | Chairman | keshav.patidar@indoreinstitute.com | 9926510687 |
| 2. | Mr. Puneet S. Duggal (Vice Principal-1 & C.AO-1) | Co-Chairman | puneet.duggal@indoreinstitute.com | 9893186681 |
| 3. | Dr. Richa Gupta (Vice Principal-2 & HOD-AEME) | Member | richa.gupta@indoreinstitute.com | 9755647074 |
| 4. | Dr. Nazarata Kaushal (Dean & Course Director-1 First Year) | Member | nazarata.kaushal@indoreinstitute.com | 9826075667 |
| 5. | Dr. Parimicta Chanchani (Associate Prof. - ESH) | Member | parimicta.chanchani@indoreinstitute.com | 9981161212 |
| 6. | Dr. Niraj Soni (HOD-CE) | Member | niraj.soni@indoreinstitute.com | 9977025413 |
| 7. | Mr. Abhay Sahasrabudhhe (CAO-2) | Member | abhay.sahasrabudhhe@indoreinstitute.com | 7471130010 |
| 8. | Mr. Gajendra Dubey (Registrar) | Member | gd@indoreinstitute.com | 9165160604 |
| 9. | Mr. Rajesh Tiwari (Chief Counselor) | Member | tiwari@indoreinstitute.com | 9926439911 |
| 10. | Mr. Ayush Kushwah (Student) | Member | ayush.kushwahem2020@indoreinstitute.com | 6268796654 |

(Dr. Keshav Patidar)
Principal, IIST, Indore

CC to:

1. All Students,
2. All Faculty and Staff,
3. Dean/HODs,
4. Registrar Office,
5. Admin Dept.,
6. DG Office,
7. Office record.



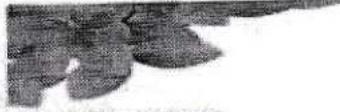
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Institute Industry Committee



Indore Institute of Science & Technology

IIST/June-23/07

Academic Year 2023-24

Date: 09/06/2023

Institute-Industry Cell

This is to inform all of you that the Institute has constituted Institute-Industry Cell for the academic year 2023-24 as mentioned below:

| Sr. No. | Name | Designation | Email ID | Contact No. |
|---------|------------------------|---|---|-------------|
| 1. | Mr. Rohit Inani | Director Corporate Relation | corporate.relations@indoreinstitute.com | 9827063083 |
| 2. | Mr. Abhay Sahasrabudde | CAO-2 | abhay.sahasrabudde@indoreinstitute.com | 7471130010 |
| 3. | Mr. Biplob Dey | Joint Director Corporate Relation & Placement | biplob.dey@indoreinstitute.com | 8878339258 |
| 4. | Mr. Kundan Bhavsar | Training and Placement Officer | kundan.bhavsar@indoreinstitute.com | 9229223023 |
| 5. | Mr. Anshul Pandey | Assistant Professor, Civil | anshul.pandey@indoreinstitute.com | 7415500483 |
| 6. | Dr. Mukesh Patidar | Assistant Professor, ECE | mukesh.patidar@indoreinstitute.com | 9770435369 |
| 7. | Ms. Farhin Khan | Assistant Professor, CM | farhin.khan@indoreinstitute.com | 9907955884 |
| 8. | Mr. Akashdeep Gupta | Assistant Professor, ME | akashdeep.gupta@indoreinstitute.com | 9098595222 |
| 9. | Mr. Nakesh Verma | Assistant Professor, CSE | nakesh.verma@indoreinstitute.com | 8824375922 |

(Dr. Keshav Patidar)
Principal, IIST, Indore

- CC to:
1. All Students,
 2. All Faculty and Staff,
 3. Dean/HoDs,
 4. TPO Office,
 5. Registrar Office,
 6. Admin Dept.,
 7. DG Office,
 8. Office record.



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Committee for SC / ST



IIST/June-23/04

Academic Year 2023-24

Date: 09/06/2023

Committee for SC/ST

This to inform all of you that as per AICTE, New Delhi the Institute has constituted 'Committee for SC/ST' for the academic year 2023-24 as mentioned below:

| Sr. No. | Name | Designation | Email ID | Contact No. |
|---------|---|-------------|--|-------------|
| 1. | Dr. Keshav Patidar | Chairman | keshav.patidar@indoreinstitute.com | 9926330687 |
| 2. | Dr. Dharamendra V. Singh | Co-Chairman | dharamendrav.singh@indoreinstitute.com | 9827215156 |
| 3. | Dr. Sathish Penchala | Member | sathish.penchala@indoreinstitute.com | 9361263763 |
| 4. | Mr. Pankaj Malviya | Member | pankaj.malviya@indoreinstitute.com | 9826674572 |
| 5. | Mr. Gajendra Dubey | Member | gd@indoreinstitute.com | 9165360604 |
| 6. | Mr. Manish Nimoriya | Member | manish.nimoriya@indoreinstitute.com | 9522444456 |
| 7. | Mr. Anil Verma | Member | anil.verma@indoreinstitute.com | 9826081720 |
| 8. | Ms. Uma Kadam | Member | uma.kadam@indoreinstitute.com | 8889574131 |
| 9. | One Member from DTE (As nominated by the DTE, Bhopal) | | | |
| 10. | One Member from University (As nominated by the RGPV, Bhopal) | | | |

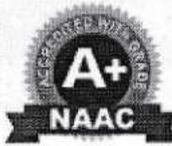
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CC to:

1. All Students,
2. All Faculty and Staff,
3. Dean/HoDs,
4. Registrar Office,
5. Admin Dept.,
6. DG Office,
7. Office record.



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Anti Ragging Committee

IIST/Sept-23/01 Academic Year 2023-24 Date: 05/09/2023 Revised

Anti-Ragging Committee

As per the notification of AICTE, New Delhi dated 01/03/2009, subject: Prevention and prohibition of Ragging in technical Institutes, the Institute has constituted Anti-Ragging Committee for the academic year 2023-24 as mentioned below:

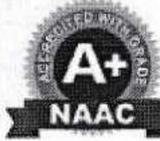
| Sr. No. | Name | Designation | Email-ID | Mobile No. |
|---------|---|-------------------|---|------------|
| 1. | Dr. Keshav Putidar (Principal) | Head of Committee | keshav.putidar@indoreinstitute.com | 9926530687 |
| 2. | Mr. Puneet S. Duggal (Vice Principal-I & CAO-1) | Member | puneet.duggal@indoreinstitute.com | 9893186681 |
| 3. | Dr. Richa Gupta (HOD-CSE) | Member | richa.gupta@indoreinstitute.com | 9755647074 |
| 4. | Dr. Niraj Soni (HOD-CE) | Member | niraj.soni@indoreinstitute.com | 9977025413 |
| 5. | Dr. Namrata Kaushal (Dean & Course Director-I First Year) | Member | namrata.kaushal@indoreinstitute.com | 9826075667 |
| 6. | Mr. Ankit Jain (HOD-ECE) | Member | ankit.jain@indoreinstitute.com | 9827596927 |
| 7. | Dr. Sathish Penchala (HOD-CSE-IT) | Member | sathish.penchala@indoreinstitute.com | 9561261763 |
| 8. | Dr. Margi Patel (HOD-IT) | Member | margi.patel@indoreinstitute.com | 9713362915 |
| 9. | Dr. Shiveta Agrawal (HOD-CS-Data Science) | Member | shiveta.agrawal@indoreinstitute.com | 9300392334 |
| 10. | Ms. Reetu Gupta (HOD-AI/ML) | Member | reetu.gupta@indoreinstitute.com | 7999126589 |
| 11. | Mr. Lokesh Aarangaulkar (HOD-ME) | Member | lokesh.aarangaulkar@indoreinstitute.com | 9713234164 |
| 12. | Mr. Abhay Sahasrabudhhe (CAO-2) | Member | abhay.sahasrabudhhe@indoreinstitute.com | 7471130010 |
| 13. | Mr. Gajendra Dabey (Registrar) | Member | gd@indoreinstitute.com | 9165308604 |
| 14. | Mr. Nishant Bansal (Admin Officer) | Member | nishant.bansal@indoreinstitute.com | 9826471177 |
| 15. | Dr. Sukhdev Bambariya (Dean-Physical Education) | Member | sukhdev.bambariya@indoreinstitute.com | 8959363633 |
| 16. | Mr. Rohit Dwivedi (Warden-Boys Hostel) | Member | rohit.dwivedi@indoreinstitute.com | 7974596699 |
| 17. | Ms. Kirti Chaubey (Warden-Girls Hostel) | Member | kirti.chaubey@indoreinstitute.com | 9454814820 |
| 18. | Mr. Rameswar Bamniya (Thana Ina, Indore) | Member | tiraindore@gmail.com | 9893171097 |
| 19. | Mr. Nirajjan Varma (Media Center, Indore) | Member | mediacenter.pr@gmail.com | 9425057478 |
| 20. | Ms. Deepika Choudhary (NGO-AMPS) | Member | deepadubey652@gmail.com | 9826802082 |
| 21. | Mr. Tarachand (Parent) | Member | tarachand9031@gmail.com | 9469591363 |
| 22. | Mr. Ganapati Chihate (Parent) | Member | ganpatichihate123@gmail.com | 9669492626 |
| 24. | Mr. Adarsh Sharma (Senior Student) | Member | adarsh.sharmac2021@indoreinstitute.com | 7974915302 |
| 25. | Mr. Ayush kale (Junior Student) | Member | ayush37777@gmail.com | 9825055099 |

(Dr. Keshav Putidar)
Principal, IIST, Indore

CC to: 1. All Students, 2. All Faculty and Staff, 3. Dean/HODs, 4. Registrar Office, 5. All Notice Boards, 6. IQAC, 7. DG Office, 8. Office record.



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Internal Complaints Committee

 **Indore Institute of
Science & Technology**

IIST/June-23/09 Academic Year 2023-24 Date: 09/06/2023

Internal Complaint Committee
(Anti-Sexual harassment)

The Internal Complaint Committee (Anti-Sexual harassment) has been constituted at IIST. The Internal Complaint Committee for prevention of sexual harassment of women at workplace, as per AICTE Regulation, 2016 to deal with the sexual harassment complaints of women at workplace. The following are the members of the internal complaint committee as mention below:

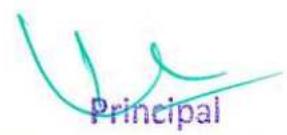
| Sr. No. | Name | Designation | Email ID | Contact No. |
|---------|--|-------------------|--|-------------|
| 1. | Dr. Richa Gupta (Vice Principal-2 & HOD-ASME) | Presiding Officer | richa.gupta@indoreinstitute.com | 9755647074 |
| 2. | Dr. Namrata Kaushal (Dean & Course Director-1 First Year) | Member | namrata.kaushal@indoreinstitute.com | 9826075667 |
| 3. | Dr. Parimoota Chanchani (Associate Prof. - ESH) | Member | parimoota.chanchani@indoreinstitute.com | 9981161212 |
| 4. | Mr. Abhay Sahasrabudde (CAO-2) | Member | abhay.sahasrabudde@indoreinstitute.com | 7471130010 |
| 5. | Mr. Gajendra Dubey (Registrar) | Member | gd@indoreinstitute.com | 9165360604 |
| 6. | Mr. Akshay Chilhate (Student) | Member | akshay.chilhates2021@indoreinstitute.com | 9826756948 |
| 7. | Ms. Yukta Kukreja (Student) | Member | yukta.kukreja2021@indoreinstitute.com | 8817902600 |
| 8. | Ms. Ruchita Jawle (Student) | Member | ruchita.jawlecc2020@indoreinstitute.com | 6263532634 |
| 9. | Ms. Deepika Choudhary (NGO-AMPS) | Member | deepichobey652@gmail.com | 9826802082 |


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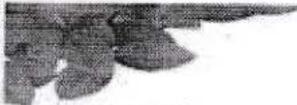
1. All Students,
2. All Faculty and Staff,
3. Deans/HoDs,
4. Registrar Office,
5. Admin Dept.,
6. DG Office,
7. Office record.




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Women Grievance Redressal Committee




**Indore Institute of
Science & Technology**

IIST/June-23/03 Academic Year 2023-24 Date: 09/06/2023

The Women's' Grievance Redressal Cell

The Women's Grievance Redressal Cell for settling issues apart from sexual harassment at workplace: The following are the members of the Women's Grievance Redressal Cell:

| Sr. No. | Name | Designation | Email ID | Contact No. |
|---------|-------------------------|-------------|---|-------------|
| 1. | Dr. Namrata Kaushal | Chairman | namrata.kaushal@indoreinstitute.com | 9826075667 |
| 2. | Dr. Parimeeta Chanchani | Co-Chairman | parimeeta.chanchani@indoreinstitute.com | 9981161212 |
| 3. | Dr. Richa Gupta | Member | richa.gupta@indoreinstitute.com | 9755647074 |
| 4. | Dr. Margi Patel | Member | margi.patel@indoreinstitute.com | 9713362915 |
| 5. | Dr. Neena Thacker | Member | neena.thacker@indoreinstitute.com | 9826914202 |

The Cell is required to work in the direction of providing help to any female complaining of discrimination, either gender discrimination or otherwise, any kind of abuse, loneliness, peer pressure, groupism, home sickness, insecurity and/or inferiority complex in terms of physical appearance, hostel issues, harassment from room-mates, adjusting and adopting to the new environment, etc.


 (Dr. Keshav Patidar)
 Principal, IIST, Indore

CC to:

1. All Faculty and Staff,
2. Deans/HoDs,
3. Registrar Office,
4. Admin Dept.,
5. DG Office,
6. Office record.

Campus: Indore
Office: Indore
Phone: +91 (0) 731 252 2222, 252 2222 (Ext. 1001), 252 2222 (Ext. 1002), 252 2222 (Ext. 1003), 252 2222 (Ext. 1004), 252 2222 (Ext. 1005), 252 2222 (Ext. 1006), 252 2222 (Ext. 1007), 252 2222 (Ext. 1008), 252 2222 (Ext. 1009), 252 2222 (Ext. 1010)
Fax: +91 (0) 731 252 2222, 252 2222 (Ext. 1011), 252 2222 (Ext. 1012), 252 2222 (Ext. 1013), 252 2222 (Ext. 1014), 252 2222 (Ext. 1015), 252 2222 (Ext. 1016), 252 2222 (Ext. 1017), 252 2222 (Ext. 1018), 252 2222 (Ext. 1019), 252 2222 (Ext. 1020)



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Step III - Study of University Syllabus and raise the requirement for updation and also collect subject choice from faculty

Sample Subject Choice Form Filled by ECE Faculty

Indore Institute of Science & Technology, Indore
Department of Electronics & Communication Engineering
SUBJECT ALLOTMENT OPTION FORM
Academic Year: 2023-24 (Odd Semester)

| | | | |
|------------------|--------------------|-----------------|-----------------------------|
| Faculty Name | DEVENDRA S MANDLOJ | Experience : | 14 YEAR |
| Qualification | ME | Specialization: | ELECTRONICS & COMMUNICATION |
| Area of Interest | WIRELESS COMM | | |

Note: 1) Put the number against your choice as your Priority
2) Select at least 2 subjects per semester.

| VII Semester (EC) | | III Semester (CS) | |
|---|---|-------------------|----------------------------------|
| EC-701 | VLSI Design | (6) | CS-304 Digital System |
| EC-702 | Departmental Elective | | |
| EC-702 A | Microwave Engineering | | |
| (4) EC-702 B | Information Theory and Coding | | |
| EC-702 C | Nano Electronics | | |
| EC-703 | Open Elective | (5) | IT-305 Digital Circuits & System |
| (3) EC-703A | Cellular Mobile Communication | | |
| EC-703B | Internet of Things | | |
| EC-703C | Probability Theory and Stochastic Processor | | |
| EC-704 | Microwave Lab | | |
| EC-705 | IOT Lab | | |
| IV Semester (EC) | | II Semester (EE) | |
| EC-501 | Microprocessor & Its Application | | BT-301 Mathematics III |
| (1) EC-502 | Digital Communication | (2) | EC-302 EMI & 306 EMILAB |
| EC-503 | Departmental Elective | (2) | EC-303 Digital System Design |
| EC-503 A | CNTL | | EC-304 Electronic Devices |
| (4) EC-503 B | Mobile Communication | | EC305 Network Analysis |
| EC-503 C | Advanced Control System | | |
| EC-504 | Open Elective | | |
| EC-504 A | EMT | | |
| EC-504 B | CSO | | |
| EC-504 C | Process Control Instrumentation | | |
| I Semester | | | |
| BT-104 Basic Electrical and Electronics Engineering | | | |

Signature: *[Signature]* Date: 26/6/23

Subject Allotted:

| Sr.No. | Subject Name | Subject Type | Class | Branch | Load/Week |
|--------|--------------|--------------|-------|--------|-----------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

Faculty Signature: *[Signature]*



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Indore Institute of Science & Technology, Indore
 Department of Electronics & Communication Engineering
SUBJECT ALLOTMENT OPTION FORM
 Academic Year: 2023-24 (Odd Semester)

| | | | |
|------------------|------------------------|----------------|---------------|
| Faculty Name | SHRAVANI KUMAR NARAYAN | Experience | 10 Year |
| Qualification | M.TECH | Specialization | DIGITAL COMM. |
| Area of Interest | COMMUNICATION | | |

Note: 1) Put the number against your choice as your Priority
 2) Select at least 2 subjects per semester.

| VII Semester (EC) | | III Semester (CS) |
|-------------------|--|----------------------------------|
| EC-701 | VLSI Design | CS-301 Digital System |
| EC-702 | Departmental Elective | |
| 2 EC-702 A | Microwave Engineering | |
| EC-702 B | Information Theory and Coding | |
| EC-702 C | Nano Electronics | |
| III Semester (IT) | | |
| EC-703 | Open Elective | IT-305 Digital Circuits & System |
| EC-703A | Cellular Mobile Communication | |
| 6 EC-703B | Internet of Things | |
| EC-703C | Probability Theory and Stochastic Processor | |
| EC-704 | Microwave Lab | |
| EC-705 | IOT Lab | |
| V Semester (EC) | | III Semester (EC) |
| EC-501 | Microprocessor & its Application | BT-301 Mathematics III |
| 5 EC-502 | Digital Communication | EC-302 EMI |
| EC-503 | Departmental Elective | 1 EC-303 Digital System Design |
| 3 EC-503 A | CNTL | EC-304 Electronic Devices |
| EC-503 B | Mobile Communication | EC-305 Network Analysis |
| EC-503 C | Advanced Control System | |
| EC-504 | Open Elective | |
| 4 EC-504 A | EMT | |
| EC-504 B | CSO | |
| EC-504 C | Process Control Instrumentation | |
| I Semester | | |
| BT-104 | Basic Electrical and Electronics Engineering | |

Signature: _____ Date: _____

Subject Allotted:

| Sr No. | Subject Name | Subject Type | Class | Branch | Load/Week |
|--------|--------------|--------------|-------|--------|-----------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |

Faculty Signature: _____



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Sample Subject Choice Form Filled by CSE Faculty



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

SUBJECT ALLOTMENT OPTION FORM

Academic Year:

Faculty Name: Vivek Raghav
Qualification: B.E. M.E. MCA

Experience: 18
Specialization: Machine Learning

Area of Interest
Subject taught in July to Dec: DSM BCE Data Analytical Lab
Subject taught in July to Dec: DBMS
Subject taught in July to Dec:

Note: 1) Write numbers according to your priority and select at least 2 subjects per semester.

| VII Semester (As per Old Syllabus & Scheme) | | | IV Semester | |
|---|-----------|--|----------------------|-----------------------------------|
| 1 | CS-801 | IOT | CS-402 | Analysis Design of Algorithm |
| 2 | CS-802 DE | BlockChain/ CC/ High Performance Computing/ OOSE | CS-403 | Software Engineering |
| 3 | CS-803 OE | Image Processing/ Game Theory/ IOT/ MIE | CS-404 | Comp. Organization & Architecture |
| 4 | CS-804 | D/ O/ E Lab | CS-405 | Operating Systems |
| | CS-805 | Major Project-II | CS-406 | Programming Practices ✓ ① |
| | | | CS-408 | Cyber Security (MOOC) |
| VI Semester | | | III Semester | |
| 1 | CS-601 | Machine Learning ① | BT-2005 | Basic Computer Engineering ② |
| 2 | CS-602 | Computer Networks | | |
| 3 | CS-603 DE | ACA/ CG&V/ Compiler Design | Other Department | |
| 4 | CS-604 OE | Knowledge Management / Project Management / Rural Tech & Community Development | CM-406 | Computer Programming-II |
| 5 | CS-605 | Data Analytics Lab | ME-606 | RDBMS |
| 6 | CS-606 | Skill Development Lab | | |
| 7 | CS-608 | Minor Project II | | |
| IIE (CS III Semester) | | | IIE (CS IV Semester) | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

Signature: [Handwritten Signature]

Date:

Subject Allotted:

| Sr.No | Subject Name | Subject Type | Chs | Branch | Reqd./Yes |
|-------|------------------|--------------|-----|--------|-----------|
| 1 | SDL | PR | CS1 | CSE | 4 |
| 2 | Machine Learning | TH+PR | CS3 | CSE | 7 |
| 3 | | | | | |

Faculty Signature: [Handwritten Signature]

HOD Signature: [Handwritten Signature]

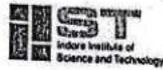


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Indore Institute of Science & Technology

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f) 2023-2024



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING SUBJECT ALLOTMENT OPTION FORM Academic Year:

Faculty Name: Megha Butkar
Qualification: M.Tech
Area of Interest:

Experience: 7 yrs.
Specialization: OOPM

Subject taught in July to Dec
Subject taught in July to Dec
Subject taught in July to Dec

Note: 1) Write numbers according to your priority and select at least 2 subjects per semester.

| VIII Semester (As per Old Syllabus & Scheme) | | | IV Semester | |
|--|-----------|--|---------------------|-----------------------------------|
| 1 | CS-801 | IOT | CS-402 | Analysis Design of Algorithm ✓ |
| 2 | CS-802 DE | BlockChain/ CC/ High Performance Computing/ OOSE | CS-403 | Software Engineering ✓ |
| 3 | CS-803 OE | Image Processing/ Game Theory/ IOT/ MIE | CS-404 | Comp. Organization & Architecture |
| 4 | CS-804 | D/ O/ E Lab | CS-405 | Operating Systems |
| | CS-805 | Major Project-II | CS-406 | Programming Practices |
| | | | CS-408 | Cyber Security (MOOC) |
| VI Semester | | | II Semester | |
| 1 | CS-601 | Machine Learning | BT-2005 | Basic Computer Engineering |
| 2 | CS-602 | Computer Networks | | |
| 3 | CS-603 DE | ACA/ CG&V/Compiler Design | | |
| 4 | CS-604 OE | Knowledge Management / Project Management / Rural Tech & Community Development | CM-406 | Computer Programming-II |
| 5 | CS-605 | Data Analytics Lab | ME-606 | RDBMS |
| 6 | CS-606 | Skill Development Lab | | |
| 7 | CS-608 | Minor Project II | | |
| M.E. CS II Semester | | | M.E. CS IV Semester | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |

Signature:

Date:

Subject Allotted:

| Sr.No | Subject Name | Subject Type | Class | Branch | Term/Year |
|-------|-------------------|--------------|-------|--------|-----------|
| 1 | Software Enginay | Th+Pr | CS1 | CSE | 7 |
| 2 | Project mgmt | Th | CS1 | CSE | 3 |
| 3 | CS-406 | | | | |

Faculty Signature:

HOD Signature:



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Sample Subject Choice Form Filled by ME Faculty



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
DEPARTMENT OF MECHANICAL ENGINEERING
SUBJECT ALLOTMENT OPTION FORM
Academic Year: 2023-2024

| | | | |
|-------------------------------|----------------|-----------------|------------------|
| Faculty Name | D. D. V. S. | Experience : | 16 year |
| Qualification | M.E. | Specialization: | Thermal & Design |
| Area of Interest | Thermodynamics | | |
| Subject taught in July to Dec | IIMT | | |
| Subject taught in July to Dec | Minor project | | |
| Subject taught in July to Dec | | | |

Note: 1) Write numbers according to your priority and select at least 2 subjects per semester.

| VII Semester | | | | VIII Semester | | | |
|----------------|-----------|--|----------------|------------------------------------|--|--|--|
| 1 | ME801 | Refrigeration & Air Conditioning | HS401 | Energy & Environmental Engineering | | | |
| 2 | ME802 (A) | Automobile Engineering | ME402 | Instrumentation and Control | | | |
| 3 | ME803(C) | Entrepreneurship and Management Concepts | ME403 | Theory of Machines | | | |
| 4 | ME804 | Simulation and Modeling | ME404 | Fluid Mechanics | | | |
| 5 | | | ME405 | Manufacturing Technology | | | |
| VI Semester | | | | VII Semester | | | |
| 1 | ME601 | Thermal Engineering and Gas Dynamics | BT303 | Basic Mechanical Engineering | | | |
| 2 | ME602 | Machine Component Design | BT 105 | Engineering Graphics | | | |
| 3 | ME603 (A) | Turbo Machinery | BT 106 | Manufacturing Practices | | | |
| 4 | ME604(C) | Renewable Energy Technology | | | | | |
| 5 | ME605 | CAD Lab | | | | | |
| ME II Semester | | | | ME I Semester | | | |
| 1 | MMMD-201 | Adv. Machine Design | MMMD-204 | Industrial Tribology | | | |
| 2 | MMMD-202 | Finite Elements Method | MMMD/ MMPD-205 | Vibration and Noise Control | | | |
| 3 | MMMD-203 | Robotics | | | | | |

Signature:

Date:

Subject Allotted:

| Sr.No. | Subject Name | Subject Type | Cr. | Branch | Load/Week |
|--------|--------------|--------------|-----|----------|-----------|
| 1 | Software Lab | P | 4th | ME | 2 |
| 2 | Project | T+P | 2nd | CS/AE/AI | 8 |
| 3 | BME | T+P | 2nd | CS A-2 | 8 |

Faculty Signature:



HOD Signature



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Principal



Departments Minutes of Meeting (Sample MoM from CE Department)

Circular

All the faculties of Civil Engg. Dept are hereby informed that departmental meeting is scheduled on 27/12/2023 at H.O.D. cabin. The agenda of meeting will be as follows:-

- 1) Planning for upcoming session.
- 2) Discussion on feedback.
- 3) Subject preference & allotment
- 4) NABL visit surveillance
- 5) Course file
- 6) Attendance monitoring
- 7) Internship planning
- 8) Any other issue.

| | |
|--|--|
| <p>Dr. Niraj Soni Mr. Poonam Bagora Mr. Ishanya Joshi Mr. Shanu Sharma Mr. Shashank Agrawal Mr. Mahaveer Dangi Mr. Prashant Dubey Mr. Shailendra Singh Mr. Manish K. Nimoriya Mr. Neeraj Rajput Mr. Neetesh Tarikh Etc.</p> | <p><i>[Signature]</i> Sharma Sharma Agrawal Prashant Shailendra Manish Rajput Nitish</p> |
|--|--|





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Circular

All the faculties of civil engineering department are hereby informed that departmental meeting is scheduled on 08/05/23 at H.O.D's cabin. The agenda of meeting are as follows:

1. Planning for upcoming semester.
2. Discussion on feedback.
3. Subject Preference and allotment.
4. NABL visit
5. course file
6. Attendance monitoring
7. Internship Planning
8. Any other issue.

Dr. Niraj Soni
 Ms. Poonam Bagora
 Mr. Ishanya Joshi
 Mr. Shashank Agrawal
 Ms. Shamu Sharma
 Mr. Anshul Pandey
 Mr. Prashant K. Dubey
 Mr. Mahaveer Dangi
 Mr. Shailendra Singh
 Mr. Manish K. Nimosiya
 Mr. Neeraj Rajput
 Mr. Neetish Pareek

(Handwritten signatures)
 Shamu
 Agrawal
 Anshul
 Pandey
 Shailendra
 Neeraj
 Niteesh



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Departments Minutes of Meeting (Sample MoM from AIML Department)

A4 - 22 - 23.
Session - July '22 - Dec '22

{ Date
P No }

CIRCULAR

All the faculties of AIML department
are hereby informed to attend the
departmental meeting on 21/12/22
in Meeting Room HOD cabin.

Agenda of Meeting :-

1. Summarization of events conducted in last session.
2. Semester planning.
3. Subjects allotment and preparation of lecture plan and course file.
4. Previous semester feedback.
5. Discussion on research papers & publications.
6. Students attendance maintenance.
7. Students participation in events.
8. Weak students remedial class planning.
9. Result analysis.
10. Others (if any)

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HOD AIML

HOD

DEPARTMENT OF AIML



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and Technology, Indore
Principal



Date: _____
P. No: _____

Faculty Name

Signature

Dr. Satish K. Penchala
Ms. Rupal Yadav
Ms. Megha Borthakur
Ms. Shweta Sharma

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HOD AIML

DEPARTMENT OF AIML



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Step III – Formulation of Department Activity Calendar for the semester Align with Academic Calendar

Sample CE Activity Calendar for Even Semester

| Indore Institute of Science and Technology | | | | | | |
|---|----|----|----|----|----|----|
| Activity Calendar of Civil Engineering Department 2023-24 (Session: Jan. - June 2024) | | | | | | |
| January | | | | | | |
| Su | Mo | Tu | We | Th | Fr | Sa |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |
| February | | | | | | |
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | | |
| March | | | | | | |
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |
| April | | | | | | |
| Su | Mo | Tu | We | Th | Fr | Sa |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |
| May | | | | | | |
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |
| June | | | | | | |
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

Events

Industrial Tour & Visit

Technical Visit at Water Treatment Plant at Jalud Feb 24 ✓

Technical Visit at Indore Metro April 24 ✓

Expert Lecture / Seminar

Expert Lecture on Advanced Technology in Wastewater Treatment Feb 24

Expert Lecture on Professional Ethics / Human Values March 24

Expert Lecture on BIM Apr 24

SIG's / Internship / Training / Certification / Workshop Activities

Internship cum training on Sustainable Development Through Energy Efficient and Green Building for III Year students-Jan 24

Training on Total Station for Placements for II year and III year students March 24

Certificate Course on Material Testing for III Year Students March 24

Internship on Architectural Planning of a Hospital Building for II-year students March 24

Certificate Course on Water Conservation System for II Year Students April 24

Project

Project-Submission of abstract January 24

1st Presentation of Project February 24

2nd Presentation of Project March 24

Final Presentation of Project April 24

AutoCAD Competition / Civil Engineering Quiz / Mock Interview-
March 24

Dr. Niraj Soni
HOD CIVIL

Ashwini

Principal
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| INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY | | | | | | | | | |
|---|----------------------------|----------------------------------|---------|------|--------|-----------|-----------------|--|---|
| DEPARTMENT OF ELECTRONICS & COMMUNICATION | | | | | | | | | |
| OFFLINE SUBJECTS ALLOTMENT FOR THE ODD SEMESTER ACADAMIC YEAR 2023-24 | | | | | | | | | |
| Sr.No | Faculty Name | Subjects /Subject Code | Section | Year | Theory | Practical | Projects/ Other | Lab Incharge | Coordinator |
| 1 | Dr. Keshav Patidar | BEEE | A-2 | I | 4 | 4 | 0 | - | Principal, IIST |
| | | Total | | | 8 | 4 | 4 | | |
| 2 | Mr. Ankit Kumar Jain | Network Analysis | EC-1 | II | 4 | 4 | 0 | - | HOD, ARIIA, NIRF, NBA & NAAC Coordinator |
| | | EMT | EC-1 | III | 4 | 0 | 0 | | |
| | | Total | | | 12 | 8 | 4 | | |
| 3 | Mr. Devendra Singh Mandloi | Digital Communication | EC-1 | III | 4 | 4 | 0 | EMI Lab Ground Floor C block | Class Coordinator EC IV Year, Industry Training/ Tour & Placement Coordinator |
| | | EMI | EC-1 | II | 4 | 0 | 0 | | |
| | | EMI Lab | EC-1 | II | 0 | 4 | 0 | | |
| | | Total | | | 16 | 8 | 8 | | |
| 4 | Mr. Shravan Namdeo | CNTL | EC-1 | III | 4 | 4 | 0 | CNTL Lab First Floor C Block | Examination Coordinator, Time Table Coordinator and Alumni Coordinator |
| | | BEEE | A-4 | I | 4 | 4 | 0 | | |
| | | Total | | | 16 | 8 | 8 | | |
| 5 | Mr. Nitin Chouhan | Digital System Design | EC | II | 4 | 2 | 0 | Digital Lab C Block First Floor | Social Media, Code Chef Coordinator |
| | | Digital System | IT | II | 3 | 4 | 0 | | |
| | | Total | | | 13 | 7 | 6 | | |
| 6 | Dr. Mukesh Patidar | Microprocessor & Its Application | EC-1 | III | 4 | 4 | 0 | Microprocessor Lab First Floor Computer Center | NPTEL / MOOC Coordinator and Course File Coordinator |
| | | Electronic Devices | EC | II | 4 | 0 | 0 | | |
| | | Total | | | 12 | 8 | 4 | | |



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Various Type of Coordinator at Department level -Sample from ECE

| | | | | | | | | | |
|----|-------------------------|--------------------------|------|--------|----|---|----|---|--|
| 7 | Mr. Pranav Pranajpe | Microwave Engineering | EC-1 | IV | 4 | 4 | 0 | Microwav e Lab First Floor A Block | Skill Rack Coordinator, Drone Cub Coordinator and Students Participation and Achievement Coordinator |
| | | Digital System | CS-1 | II | 3 | 4 | 0 | | |
| | | Total | | | 15 | 7 | 8 | | |
| 8 | Mr. Ashutosh Kashiv | BEEE | A-1 | I | 4 | 4 | 0 | BEEE Lab Ground Floor | First Year Coordinator |
| | | BEEE | A-3 | I | 4 | 4 | 0 | | |
| | | BEEE Lab | A-2 | I | 0 | 4 | 0 | | |
| | | Total | | | 20 | 8 | 12 | | |
| 9 | Mr. Ankit Muley | Internship | EC | II | 0 | 0 | 1 | Project Lab | Robotics Club Coordinator & Major Project Coordinator |
| | | MATLAB | EC | III | 0 | 4 | 0 | | |
| | | Major Project -1 | EC | IV | 0 | 0 | 4 | | |
| | | Total | | | 9 | 0 | 4 | | |
| 10 | Ms. Sneha Nagar | Digital System | CS-2 | II | 3 | 4 | 0 | IoT Lab | IoT Coordinator |
| | | Digital system | CS-3 | II | 3 | 4 | 0 | | |
| | | Electronic Devices | EC | II | 0 | 4 | 0 | | |
| | | Total | | | 18 | 6 | 12 | | |
| 11 | Mr. Navanit Palrecha | Open Elective - IoT | EC | IV | 4 | 4 | 0 | eYantra Lab | Class coordinator EC-II nd Year |
| | | Minor Project | EC-1 | III | 0 | 0 | 4 | | |
| | | Total | | | 12 | 4 | 4 | | |
| 12 | Ms. Arpita Tiwari | Internship | EC | III/IV | 0 | 0 | 3 | Digital Comm. Lab C block | Class coordinator EC-III rd Yea |
| | | Major Project | EC-1 | IV | 0 | 0 | 4 | | |
| | | Total | | | 7 | 0 | 0 | | |
| 12 | Mr. Rupesh Dutta | VLSI Design | EC | IV | 4 | 4 | 0 | Optical Lab First Floor A Block | Faculty Achievemen Coordinator |
| | | Major Project | EC-1 | IV | 0 | 0 | 4 | | |
| | | Total | | | 12 | 4 | 4 | | |



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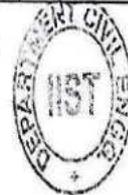


Various Type of Coordinator at Department level -Sample from CE Department

| Indore Institute of Science & Technology, Indore Department of Civil Engineering Faculty Load Distribution - Session Jan-June. 2023 | | | | | | | | | |
|---|---------------------------|------------------|--------------|------|---------------|---|---|----------------------|--|
| S. No. | Faculty Name | Subject Allotted | Subject Code | Sem | Teaching load | | | Academic Total (hrs) | Add. responsibility |
| | | | | | L | T | P | | |
| 1 | Mr. Niraj Soni | BC & EM | BT-204 | II | 3 | 1 | 4 | 9 | HOD & Project Incharge |
| | | RRS | CE-803C | VIII | 1 | 0 | 0 | | |
| 2 | Ms. Poonam Bagora | WRE | CE-603 | VI | 4 | 0 | 0 | 11 | IV Coordinator & Syndicate Incharge for 23 Students (S No. 1-23) NPTEL Mentor |
| | | RKS | CE-803C | VIII | 2 | 0 | 0 | | |
| | | CT | CE-402 | IV | 2 | 1 | 2 | | |
| 3 | Mr. Shashank Agrawal | BC & EM | BT-204 | II | 3 | 1 | 4 | 18 | 1st Yr Syndicate IC (39 Students), Time Table Coordinator |
| | | EQRS LAB | CE-804 | VIII | 0 | 0 | 2 | | |
| | | BC & EM | BT-204 | II | 3 | 1 | 4 | | |
| 4 | Mr. Ishanya Joshi | BC & EM | BT-204 | II | 3 | 1 | 4 | 13 | Syndicate of 1st year students & NAAC Coordinator Placement Incharge. |
| | | EG & RS | CE-405 | IV | 3 | 0 | 2 | | |
| 5 | Mr. Tridev Pawar | SA-I | CE-403 | IV | 3 | 1 | 2 | 16 | II year Coordinator & II Year Syndicate Incharge 15 Students (16-30) |
| | | RCC-I | CE-601 | VI | 2 | 1 | 2 | | |
| | | DSS | CE-801 | VIII | 2 | 1 | 2 | | |
| 6 | Ms. Shanti Sharma | EIA | CE-604C | VI | 4 | 0 | 0 | 12 | III Year Coordinator & III Year Syndicate Incharge for 15 students(S No 1-15), Akshra Coordinator. |
| | | FE | CE-802 | VIII | 3 | 1 | 0 | | |
| | | EEE | CE-401 | IV | 3 | 1 | 0 | | |
| 7 | Mr. Yash Hardiya | NDT LAB | CE-606 | VI | 0 | 0 | 3 | 3 | |
| 8 | Mr. Mahaveer Dangi | TE-I | CE-404 | IV | 3 | 1 | 2 | 11 | Syndicate Incharge for 23 students (S No. 24-47), Exam Control Room Member (PI). |
| | | EE-I | CE-602 | VI | 2 | 1 | 2 | | |
| 9 | Mr. Manish Kumar Nimoriya | SOFTWARE LAB | CE-406 | IV | 0 | 0 | 2 | 2 | Project Coordinator |
| 10 | Mr. Neesh Pareek | ASL | CE-605 | VI | 0 | 0 | 2 | 6 | |
| | | MAJOR PROJECT-II | CE-805 | VIII | 0 | 0 | 4 | | |
| 11 | Mr. Neeraj Rajput | SOFTWARE LAB | CE-406 | IV | 0 | 0 | 2 | 6 | Project Coordinator |
| | | MAJOR PROJECT-II | CE-805 | VIII | 0 | 0 | 4 | | |
| 12 | Mr. Shailendra Sishel | MINOR PROJECT-II | CE-608 | VI | 0 | 0 | 4 | 7 | |
| 13 | Mr. Anshul Pandey | NDT LAB | CE-606 | VI | 0 | 0 | 3 | 5 | |
| | | EQRS LAB | CE-804 | VIII | 0 | 0 | 2 | | |
| 14 | Mr. Prashant Dubey | ASL | CE-605 | VI | 0 | 0 | 2 | 6 | |
| | | MAJOR PROJECT-II | CE-805 | VIII | 0 | 0 | 4 | | |

[Signature]
Timetable IC.

[Signature]
Dr. Niraj Soni
H.O.D.



[Signature]
Dr. Keshav Pathak
PRINCIPAL.



Principal
Indore Institute of Science
and Technology, Indore
Principal



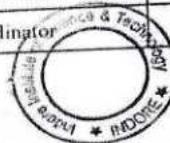
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Various Type of Coordinator at Department level -Sample from ESH Department

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE DEPARTMENT OF ENGINEERING SCIENCE AND HUMANITIES(ESH) Coordinators for the session 2023-24

| S. No. | Name of faculty | Coordinator | Signature |
|--------|------------------------|---------------------------------------|-------------|
| 1 | Dr.Namrata Kaushal | Dean/HOD/Inter department Coordinator | [Signature] |
| 2 | Dr,Parimeeta Chanchani | Chemistry Lab Coordinator | [Signature] |
| 3 | Dr. Irfan Mansuri | Physics Lab Coordinator | [Signature] |
| 4 | Dr. Neena Thacker | Language Lab Coordinator | [Signature] |
| 5 | Mr. Gopal Yadav | Website Coordinator | [Signature] |
| 6 | Dr. Preeti Dixit | Activity Coordinator | [Signature] |
| 7 | Ms Akanksha Agrawal | ERP Coordinator | [Signature] |
| 8 | Dr.Namrata Kaushal | Library Coordinator | [Signature] |
| 9 | Dr. Irfan Mansuri | NAAC Coordinator | [Signature] |
| 10 | Dr. Neena Thacker | Class Coordinator | [Signature] |
| 11 | Mr. Gopal Yadav | Class Coordinator | [Signature] |
| 12 | Dr. Preeti Dixit | Class Coordinator | [Signature] |
| 13 | Ms. Rupali Tiwari | Class Coordinator | [Signature] |
| 14 | Dr. Amit Jain | Class Coordinator | [Signature] |
| 15 | Dr. Irfan Mansuri | Class Coordinator | [Signature] |
| 16 | Mr.Dhannanjay Joshi | Class Coordinator | [Signature] |
| 17 | Dr.Namrata Kaushal | Exam,Coordinator | [Signature] |
| 18 | Dr.Parimeet Chanchani | Social Media Coordinator | [Signature] |
| 19 | Dr.Parimeet Chanchani | Expert Lecture Coordinator | [Signature] |
| 20 | Ms Akanksha Agrawal | NPTEL / MOOC Course Coordinator | [Signature] |
| 21 | Ms. Rupali Tiwari | edX / Courera Coordinator | [Signature] |
| 22 | Dr. Amit Jain | Rural Outreach Coordinator | [Signature] |
| 23 | Mr. Gopal Yadav | NSS Coordinator | [Signature] |
| 24 | Dr.Parimeeta Chanchani | Cultural Coordinator | [Signature] |
| 25 | Dr. Irfan Mansuri | Sports Coordinator | [Signature] |
| 26 | Dr.Namrata Kaushal | Internship Coordinator | [Signature] |
| 27 | Dr. Amit Jain | NBA Coordinator | [Signature] |
| 28 | Dr. Neena Thacker | PDP Coordinator | [Signature] |
| 29 | Ms. Rupali Tiwari | NDLI Club Coordinator | [Signature] |
| 30 | Dr. Preeti Dixit | Admission Coordinator | [Signature] |

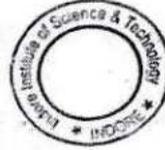


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| | | | |
|----|----------------------|------------------------|--|
| 31 | Mr. Dhannanjay Joshi | Admission Coordinator | |
| 32 | Ms Akanksha Agrawal | Time table Coordinator | |
| 33 | Dr. Neena Thacker | Admission Coordinator | |

Signature of HOD



Signature of
Principal



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Step V- Competency/ experience-based allotment of subjects to various faculty members of the dept -Prepare Load Chart, Time Table and allocation of Syndicate Inc

Sample Load Chart from ECE

| INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY | | | | | | | | | |
|---|----------------------------|----------------------------------|---------|------|--------|-----------|-----------------|--|---|
| DEPARTMENT OF ELECTRONICS & COMMUNICATION | | | | | | | | | |
| OFFLINE SUBJECTS ALLOTMENT FOR THE ODD SEMESTER ACADEMIC YEAR 2023-24 | | | | | | | | | |
| Sr.No | Faculty Name | Subjects /Subject Code | Section | Year | Theory | Practical | Projects/ Other | Lab Incharge | Coordinator |
| 1 | Dr. Keshav Patidar | BEEE | A-2 | I | 4 | 4 | 0 | - | Principal, IIST |
| | | Total | | | 8 | 4 | 4 | | |
| 2 | Mr. Ankit Kumar Jain | Network Analysis | EC-1 | II | 4 | 4 | 0 | - | HOD, ARTIA, NIRE, NBA & NAAC Coordinator |
| | | EMT | EC-1 | III | 4 | 0 | 0 | | |
| | | Total | | | 12 | 8 | 4 | | |
| 3 | Mr. Devendra Singh Mandloi | Digital Communication | EC-1 | III | 4 | 4 | 0 | EMI Lab Ground Floor C block | Class Coordinator EC IV Year, Industry Training/ Tour & Placement Coordinator |
| | | EMI | EC-1 | II | 4 | 0 | 0 | | |
| | | EMI Lab | EC-1 | II | 0 | 4 | 0 | | |
| | | Total | | | 16 | 8 | 8 | | |
| 4 | Mr. Shравan Namdeo | CNTL | EC-1 | III | 4 | 4 | 0 | CNTL Lab First Floor C Block | Examination Coordinator, Time Table Coordinator and Alumni Coordinator |
| | | BEEE | A-4 | I | 4 | 4 | 0 | | |
| | | Total | | | 16 | 8 | 8 | | |
| 5 | Mr. Nitin Chouhan | Digital System Design | EC | II | 4 | 2 | 0 | Digital Lab C Block First Floor | Social Media, Code Chef Coordinator |
| | | Digital System | IT | II | 3 | 4 | 0 | | |
| | | Total | | | 13 | 7 | 6 | | |
| 6 | Dr. Mukesh Patidar | Microprocessor & Its Application | EC-1 | III | 4 | 4 | 0 | Microprocessor Lab First Floor Computer Center | NPTEL / MOOC Coordinator and Course File Coordinator |
| | | Electronic Devices | EC | II | 4 | 0 | 0 | | |
| | | Total | | | 12 | 8 | 4 | | |



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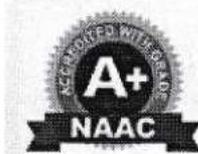
| | | | | | | | | | |
|----|----------------------|-----------------------|------|--------|----|---|----|-----------------------------------|--|
| 7 | Mr. Pranav Pranajpe | Microwave Engineering | EC-1 | IV | 4 | 4 | 0 | Microwave Lab First Floor A Block | Skill Rack Coordinator, Drone Cub Coordinator and Students Participation and Achievement Coordinator |
| | | Digital System | CS-1 | II | 3 | 4 | 0 | | |
| | | Total | | | 15 | 7 | 8 | | |
| 8 | Mr. Ashutosh Kashiv | BEEE | A-1 | I | 4 | 4 | 0 | BEEE Lab Ground Floor | First Year Coordinator |
| | | BEEE | A-3 | I | 4 | 4 | 0 | | |
| | | BEEE Lab | A-2 | I | 0 | 4 | 0 | | |
| | | Total | | | 20 | 8 | 12 | | |
| 9 | Mr. Ankit Muley | Internship | EC | II | 0 | 0 | 1 | Project Lab | Robotics Club Coordinator & Major Project Coordinator |
| | | MATLAB | EC | III | 0 | 4 | 0 | | |
| | | Major Project -I | EC | IV | 0 | 0 | 4 | | |
| | | Total | | | 9 | 0 | 4 | | |
| 10 | Ms. Sneha Nagar | Digital System | CS-2 | II | 3 | 4 | 0 | IoT Lab | IoT Coordinator |
| | | Digital system | CS-3 | II | 3 | 4 | 0 | | |
| | | Electronic Devices | EC | II | 0 | 4 | 0 | | |
| | | Total | | | 18 | 6 | 12 | | |
| 11 | Mr. Navanit Palrecha | Open Elective - IoT | EC | IV | 4 | 4 | 0 | eYantra Lab | Class coordinator EC-II nd Year |
| | | Minor Project | EC-1 | III | 0 | 0 | 4 | | |
| | | Total | | | 12 | 4 | 4 | | |
| 12 | Ms. Arpita Tiwari | Internship | EC | III/IV | 0 | 0 | 3 | Digital Comm. Lab C block | Class coordinator EC-III rd Yea |
| | | Major Project | EC-1 | IV | 0 | 0 | 4 | | |
| | | Total | | | 7 | 0 | 0 | | |
| 13 | Mr. Rupesh Dutta | VLSI Design | EC | IV | 4 | 4 | 0 | Optical Lab First Floor A Block | Faculty Achievement Coordinator |
| | | Major Project | EC-1 | IV | 0 | 0 | 4 | | |
| | | Total | | | 12 | 4 | 4 | | |



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Sample Load Chart from ME

DEPARTMENT OF MECHANICAL ENGINEERING
TEACHING LOAD
JAN JUNE 2024

| | | |
|-----------------------------|---------------|----|
| Dr. Dheerendra Vikram Singh | BME | 8 |
| | SI | 2 |
| Dr. Shriram Dravid | MCD | 7 |
| | I & C | 6 |
| Mr. Akashdeep Gupta | EG | 6 |
| | EG | 6 |
| Mr. Amit Chauhan | Turbo | 5 |
| | EEE | 4 |
| Mr. Ravi Verma | BME | 8 |
| | CAD LAB | 2 |
| Mr. Sunil Soni | AE | 6 |
| | RET | 5 |
| Mr. Lokesh Aurangabadkar | EG | 6 |
| | EG | 6 |
| Mr. Naman Gandhi | TEGD | 7 |
| | FM | 6 |
| Mr. Shantanu roy | WS | 16 |
| Mr. Suveer Dubey | BME | 8 |
| | BME | 8 |
| Mr. Navdeep Jain | EMC | 6 |
| | MT | 6 |
| Mr. Ashish Soni | SIM & MOD LAB | 4 |
| | MAJOR PROJECT | 10 |
| Mr. Yogesh Pawar | SIM & MOD LAB | 4 |
| | MAJOR PROJECT | 10 |
| Mr. Vipin Patel | RAC | 8 |
| | TOM | 6 |




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Sample Load Chart from CE

| Indore Institute of Science & Technology, Indore | | | | | | | | | |
|--|----------------------------|------------------|--------------|------|---------------|---|---|----------------------|---|
| Department of Civil Engineering | | | | | | | | | |
| Faculty Load Distribution - Session Jan-June, 2023 | | | | | | | | | |
| S. No. | Faculty Name | Subject Allotted | Subject Code | Sem | Teaching load | | | Academic Total (hrs) | Add. responsibility |
| | | | | | L | T | P | | |
| 1 | Mr. Niraj Soni | BC & EM | BT-204 | II | 3 | 1 | 4 | 9 | HOD & Project Incharge |
| | | RRS | CE-803C | VIII | 1 | 0 | 0 | | |
| 2 | Ms. Poonam Bagora | WRE | CE-403 | VI | 4 | 0 | 0 | 11 | IV Coordinator & Syndicate Incharge for 23 Students (S No. 1-23) NPTEL Mentor |
| | | RRS | CE-803C | VIII | 2 | 0 | 0 | | |
| | | CT | CE-402 | IV | 2 | 1 | 2 | | |
| 3 | Mr. Shashank Agrawal | BC & EM | BT-204 | II | 3 | 1 | 4 | 18 | 1st Yr Syndicate IC (19 Students), Time Table Coordinator |
| | | EORS LAB | CE-804 | VIII | 0 | 0 | 2 | | |
| 4 | Mr. Ishanya Joshi | BC & EM | BT-204 | II | 3 | 1 | 4 | 13 | Syndicate of 1st year students & NAAC Coordinator Placement Incharge. |
| | | EG & RS | CE-405 | IV | 3 | 0 | 2 | | |
| 5 | Mr. Trivedi Pawar | SA-I | CE-403 | IV | 3 | 1 | 2 | 16 | II year Coordinator & II Year Syndicate Incharge 15 Students (16-30) |
| | | RCC-I | CE-601 | VI | 2 | 1 | 2 | | |
| | | DSS | CE-801 | VIII | 2 | 1 | 2 | | |
| 6 | Ms. Shano Sharma | EIA | CE-604C | VI | 4 | 0 | 0 | 12 | III Year Coordinator & III Year Syndicate Incharge for 15 students (S No 1-15), Alarms Coordinator. |
| | | FE | CE-802 | VIII | 3 | 1 | 0 | | |
| | | EEE | CE-401 | IV | 3 | 1 | 0 | | |
| 7 | Mr. Yash Hardiya | NDT LAB | CE-606 | VI | 0 | 0 | 3 | 3 | |
| 8 | Mr. Mahaveer Dangji | TE-I | CE-404 | IV | 3 | 1 | 2 | 11 | Syndicate Incharge for 23 students (S No. 24-47), Exam Control Room Member (PI). |
| | | EE-I | CE-602 | VI | 2 | 1 | 2 | | |
| 9 | Mr. Manish Kumar Niranjana | SOFTWARE LAB | CE-406 | IV | 0 | 0 | 2 | 2 | Project Coordinator |
| 10 | Mr. Neeraj Pareek | ASL | CE-805 | VI | 0 | 0 | 2 | 6 | |
| | | MAJOR PROJECT-II | CE-805 | VIII | 0 | 0 | 4 | | |
| 11 | Mr. Neeraj Rajput | SOFTWARE LAB | CE-406 | IV | 0 | 0 | 2 | 6 | Project Coordinator |
| | | MAJOR PROJECT-II | CE-805 | VIII | 0 | 0 | 4 | | |
| 12 | Mr. Shalendra Singh | MINOR PROJECT-II | CE-608 | VI | 0 | 0 | 4 | 7 | |
| 13 | Mr. Anshul Pandey | NDT LAB | CE-606 | VI | 0 | 0 | 3 | 5 | |
| | | EORS LAB | CE-804 | VIII | 0 | 0 | 2 | | |
| 14 | Mr. Prashant Dubey | ASL | CE-805 | VI | 0 | 0 | 2 | 6 | |
| | | MAJOR PROJECT-II | CE-805 | VIII | 0 | 0 | 4 | | |

[Signature]

Timetable IC

[Signature]

Dr. Niraj Soni
I.L.D.



[Signature]

Dr. Keshav Paldir
PRINCIPAL



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2023-2024

Sample Timetable from CE

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
TIME-TABLE: ACADEMIC YEAR: 2023 - 24 (EVEN SEMESTER)

CLASS - OFFLINE
Class - CE - II Year
Class Coordinator: Mr. Trilok Pawar
EFFECTIVE FROM: 24/02/2024

| TIME / DAY | 9:30 to 10:30 | 10:30 to 11:15 | 11:15 to 12:00 | 12:00 to 12:50 | Lunch | 1:30 to 2:15 | 2:30 to 3:15 | 3:30 to 3:50 |
|------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------|--------------------------|----------------------|---------------------|
| MONDAY | CE406 SL | P | CE402 CT | L ES401 EEE | | CE404 TE | P MD | CE403 SA-1 TP |
| TUESDAY | CE405 EG & RS L II | CE404 TE T MD | CE405 EG & RS L II | P | | CE403 SA-1 P TP | ES401 EEE SSII | T |
| WEDNESDAY | CE405 EG & RS L II | CE404 TE L MD | ES401 EEE SSII | L CE402 CT L PB | | CE402 CT P PB | APTITUDE AB | |
| THURSDAY | CE406 SL | P | CE402 CT T PB | CE403 SA-1 L TP | Lunch | CE404 TE L MD | PDP JB | APTITUDE AB |
| FRIDAY | CE404 TE L MD | CE405 EG & RS L II | ES401 EEE SSII | L CE403 SA-1 L TP | | LIBRARY | PDP JB | CE403 SA-1 TP |
| SATURDAY | | | | | | | | |

| Sub. Code | Subject | Name of Faculty | Room No. | Lab Technician |
|-----------|--------------------------------------|----------------------------|--------------|--|
| CE-401 | Energy and Environmental Engineering | Mr. Shivu Sharma | B-3 | |
| CE-402 | Construction Technology | Ms. Purnima Bagaria | B-5 | Mr. Manish Pradhan/Mr. Rameshwar Laloharia |
| CE-403 | Structural Analysis-I | Mr. Trilok Pawar | B-5 | Mr. Manish Pradhan/Mr. Rameshwar Laloharia |
| CE-404 | Transportation Engineering | Mr. Mahaveer Dangi | B-3 | Mr. Manish Pradhan/Mr. Rameshwar Laloharia |
| CE-405 | Engineering Geology & Remote Sensing | Mr. Ashwajit Joshi | B-5 | Mr. Manish Pradhan/Mr. Rameshwar Laloharia |
| CE-406 | Software Lab | Mr. Manish Kumar Nishanaga | Computer Lab | |
| SIG | | Mr. Himyit Rajput | Computer Lab | |
| CE | Agri-tech | Mr. Abhishek Khosla | | |
| CE | PDP | Ms. Jay Singh | | |

Timetable UC

HOD, CED

Principal

Signature

for Sharma

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Sample Timetable from ECE

CLASS ROOM NO. 04
Class - EC-IV Year

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY
DEPARTMENT OF ELECTRONICS & COMMUNICATIONS ENGINEERING
TIME-TABLE: ACADEMIC YEAR: 2023-2024 (ODD SEMESTER)
Class Coordinator - Mr. Devendra Singh Maundia
11:10-12:50 P.M.

| TIME / DAY | 9:30-10:20 A.M. | 10:20-11:10 A.M. | 11:10-12:50 P.M. | 12:50-1:30 P.M. | 1:30-2:20 P.M. | 2:20-3:10 P.M. | 3:10-4:00 P.M. |
|------------|-----------------|------------------|-------------------------------|-----------------|----------------|----------------|----------------|
| MONDAY | VLSI RD | | INTERNSHIP AT | ME PP | | | |
| TUESDAY | ME PP | VLSI RD | VLSI B2 (RD) / ME Lab B1 (PP) | | | | |
| WEDNESDAY | ME PP | | IoT Lab B1 & B2 (NP) | VLSI RD | | | |
| THURSDAY | ME PP | | MAJOR PROJECT-I | VLSI RD | | | |
| FRIDAY | IoT NP | VLSI RD | INTERNSHIP AT | | | | |

| Sub. Code | Subject | Faculty Name | Subject | Faculty Name |
|-----------|-----------------------------|---|--------------------|--------------|
| EC-701 | VLSI Design (VLSI) | Mr. Ramesh Dutta (RD) | Skillrack | |
| EC-702 | Microwave Engg. (ME) | Mr. Pranav Paranjpe (PP) | NPTEL | |
| EC-703 | Open Elective - IoT (IoT) | Mr. Navniet Palrecha (NP) | EDX | |
| EC-704 | Microwave Lab (ME) | Mr. Pranav Paranjpe (PP) | Coursera | |
| EC-705 | IoT Lab (IoT) | Mr. Navniet Palrecha (NP) | Syndicate Incharge | |
| EC-706 | MAJOR PROJECT-I | Ms. Arpita Tiwari (AT) / Mr. Ankit Muley (AM) / Mr. Ramesh Dutta (RD) | Time-Table IC | |
| EC-707 | INTERNSHIP | Mr. Arpita Tiwari (AT) | HoD - ECE | |
| ECB | APTITUDE | Mr. Abhishek Bhushagar (AB) | Principal | |
| ECB | PDP | CDC Department | Principal | |

Mr. Devendra Singh Maundia
Principal
Indore Institute of Science and Technology, Indore



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2023-2024

Sample Timetable from ME

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
TIME-TABLE: ACADEMIC YEAR: 2023 - 24 (ODD SEMESTER)
ME III SEM
Class Coordinator
Mr. Umesh Badode

EFFECTIVE FROM : 07/08/2023

ROOM NO. - 12

| TIME / DAY | 9.30-10.20 | 10.30-11.10 | 11.10-12.00 | 12.00-12.50 | 12.50-1.30 | 1.30-2.20 | 2.30-3.10 | 3.10-4.00 | |
|------------|----------------|-------------|---------------|-------------|-----------------------|-------------|--------------|-----------|--|
| MONDAY | TD AC | MIII GY | MP NJ | SOM SRD | B R E A K | EOI I NG | MT LAB SS | | |
| TUESDAY | SOM SRD | MIII GY | SOM LAB NJ | | | MP NJ | TD AC | MT SS | |
| WEDNESDAY | MP NJ | MIII GY | SOM SRD | EOI I NG | | MT SS | PDP | TD AC | |
| THURSDAY | SOM SRD | MIII GY | MP LAB NJ | | | MT SS | TD AC | MP NJ | |
| FRIDAY | TEGD LAB AC | | PDP | LIBRARY | | MT SS | APTITUDE | SPORTS | |
| SATURDAY | | | | | | | | | |

| Suh. Code | Subject | Name of Faculty |
|-----------|------------------------------|------------------------|
| BT 301 | M-III | Mr. Gopal Yadav |
| ME 302 | Thermodynamics | Mr. Amit Choudhan |
| ME 303 | Material Technology | Mr. Samil Soni |
| ME 304 | Strength of Materials | Dr. Shriram Dewvid |
| ME 305 | Manufacturing Process | Mr. Nilesh Jain |
| ME 306 | EDA (PLab) | Mr. Amit Chauhan |
| BT 107 | Evaluation of Internship - I | NG |
| | PDP | Ms. Shweta Bahmani |
| | MP (PLAB) | Mr. Abhishek Bhatnagar |

Umesh Badode
Mr. Umesh Badode
TIME TABLE COORDINATOR

Umesh Badode
Mr. Umesh Badode
HOD IC



Dr. Keshav Pasdar
Dr. Keshav Pasdar
PRINCIPAL



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Sample Time table from CSE

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

SESSION: Jan - June 2024

TIME TABLE

CLASS ROOM NO. 26

Class Coordinator - Mr. Megha Bhatnagar

EFFECTIVE FROM : 26-02-24

| TIME / DAY | 09:30 AM - 10:30 AM | 10:30 AM - 11:10 AM | 11:10 AM - 12:00 AM | 12:00 AM - 12:50 PM | 12:50 PM - 01:30 PM | 01:30 PM - 02:20 PM | 02:20 PM - 03:10 PM | 03:10 PM - 03:55 PM |
|------------|---------------------------|---------------------|---------------------|--|---------------------|---------------------|--------------------------------|---------------------|
| MONDAY | LAB-2 PP (B1)/ADA (B2) | LAB-1 RV | ADA SIG/PSK | SIG | SIG | OS AS | AINL LAB-2 SE (B1)/COA (B2) | LAB-6 NB |
| TUESDAY | SE MB | M-3 DJ | ADA SIG/PSK | SIG | SIG | PDP SB | COA PS | SE MB |
| WEDNESDAY | M-3 DJ | M-3 DJ | ADA SIG/PSK | SIG | SIG | OS AS | OS (B1)/ PP (B2) | LAB-3 KC |
| THURSDAY | M-3 DJ | M-3 DJ | ADA SIG/PSK | SIG | SIG | SE MB | SE (B2)/COA (B1) | LAB-3 NB |
| FRIDAY | COA PS | ATI AB | COA PS | SIG | SIG | OS AS | OS (B2)/ADA (B1) | TT LAB-1 RV |
| S. NO. | Sub. Code | Subject | Faculty | Name | Designation | Signature | | |
| 1 | BT-401 | M-3 | DJ | Mr. Dhanrajyash | Timetable I/C | | | |
| 2 | CS-402 | SIG ADA | PSK/RV | Mr. Pritesh Saketcha/Mr. Rakesh Verma | | | | |
| 3 | CS-403 | SE | MB | Mr. Megha Bhatnagar | H.O.D | | | |
| 4 | CS-404 | COA | PSSS | Mr. Poorva Sankar/Mr. Nisha Bhat | | | | |
| 5 | CS-405 | OS | AS/JS | Mr. Anshul Saketcha/Mr. Jitenendra Kumar | DEAN | | | |
| 6 | CS-406 | PP | KC | Mr. Kavita Chandani | | | | |
| 7 | CDC | AP/TT | AB | Mr. Aditya Bhanagar | | | | |
| 8 | CDC | PDP | SB | Mr. Anshul Saketcha/Mr. Jitenendra Kumar | PRINCIPAL | | | |
| 9 | SIG | SIG | PW | Mr. Pritesh Saketcha/Mr. Rakesh Verma | | | | |



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2023-2024

Sample Syndicate In charge list from ECE

| INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY | | | |
|---|--------------|---------------------|--|
| DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING | | | |
| SYNDICATE LIST (BATCH 2021-25) | | | |
| S.No | Enrollment | Student Name | Syndicate Incharge |
| 1 | 0818EC211001 | AAYUSH OSARIYA | Mr. Shruvan Namdeo <i>Shruvan</i> |
| 2 | 0818EC211002 | ABILAY TIWARI | |
| 3 | 0818EC211003 | ABHIDEET CHOUIHAN | |
| 4 | 0818EC211004 | ADARSH SHARMA | |
| 5 | 0818EC211005 | ADITYA SHARMA | |
| 6 | 0818EC211006 | AJAY SHARMA | |
| 7 | 0818EC211007 | AMISHA SISODIYA | |
| 8 | 0818EC211008 | ANJANA SAIHU | |
| 9 | 0818EC211009 | ANKIT MALVIYA | |
| 10 | 0818EC211010 | ANKUSH YADAV | |
| 11 | 0818EC211011 | ANSHUL PATEL | |
| 12 | 0818EC211012 | ANUJ DAYMA | |
| 13 | 0818EC211013 | ANUJ PANCHAL | |
| 14 | 0818EC211014 | ANUSHKA KURIL | |
| 15 | 0818EC211015 | ASHIMA KURIL | |
| 16 | 0818EC211016 | ASHISH VISHVAKARMA | |
| 17 | 0818EC211018 | AYUSH JADHAV | |
| 18 | 0818EC211019 | AYUSH RAGHUWANSHI | |
| 19 | 0818EC211020 | BHUMI CHOUIHAN | |
| 20 | 0818EC211021 | DIGAMBER BARFA | |
| 21 | 0818EC211022 | DURGESH SUPARE | |
| 22 | 0818EC211023 | DURGESH TRIPATHI | |
| 23 | 0818EC211024 | HARI PRASAD MALVIYA | |
| 24 | 0818EC211025 | HARSH MALVIYA | |
| 25 | 0818EC211026 | HIMANSHI DODEJA | |
| 26 | 0818EC211027 | HOMESH BIHARDWAJ | |
| 27 | 0818EC211028 | JAYDEEP SINGH JADON | |
| 28 | 0818EC211029 | KAPIL DETHLIYA | |
| 29 | 0818EC211030 | KARINA SISODIYA | |
| 30 | 0818EC211031 | KARTIK KANDHARI | |
| 31 | 0818EC211032 | KIRTI PATIDAR | |
| 32 | 0818EC211033 | KOMAL MEGHWAL | |
| 33 | 0818EC211035 | MAHIMA PAL | |
| 34 | 0818EC211036 | MANISHA | |
| 35 | 0818EC211037 | MANSI LASHKARI | |
| 36 | 0818EC211038 | MANSI TAMHANKAR | |
| 37 | 0818EC211040 | NAINA AHIRE | |
| 38 | 0818EC211041 | NISHITA SHINDHVE | |
| 39 | 0818EC211043 | PAWAN KUMAR | |



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| | | |
|----|--------------|----------------------|
| 40 | 0818EC211045 | PRIYANSHU JHA |
| 41 | 0818EC211046 | RAJVEER SINGH RAJPUT |
| 42 | 0818EC211047 | RAKSHI KALE |
| 43 | 0818EC211048 | ROHIT SAWNER |
| 44 | 0818EC211049 | RONIT CHOUDHARY |
| 45 | 0818EC211050 | ROUNAK GADWAL |
| 46 | 0818EC211052 | SANJANA SEN |
| 47 | 0818EC211053 | SANJEEVANI SINGH |
| 48 | 0818EC211054 | SATISH PATIDAR |
| 49 | 0818EC211055 | SHASHI YADAV |
| 50 | 0818EC211056 | SHIVAM RAY |
| 51 | 0818EC211057 | SHOBIIT PAWAR |
| 52 | 0818EC211058 | SUMIT GUPTA |
| 53 | 0818EC211059 | UDAY MALVIYA |
| 54 | 0818EC211060 | UTKARSH DUBEY |
| 55 | 0818EC211061 | VAIDIKA RATHORE |
| 56 | 0818EC211062 | VIJAY SAHU |
| 57 | 0818EC211063 | VINAY CHOUHAN |
| 58 | 0818EC211064 | VISHAL SOLANKI |
| 59 | 0818EC211065 | VIVEK LOWANSHI |
| 60 | 0818EC211066 | YOGANSHI SHARMA |
| 61 | 0818CE211030 | SHUBHAM SINGH |
| 62 | 0818CE211034 | VIJAY PAWAR |

Mr. Nitin Chauhan
(Class Coordinator)



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2023-2024

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
SYNDICATE LIST (BATCH 2022-26)

| S.No | Name | Father | Syndicate Incharge |
|------|-----------------------|---------------------|---|
| 1 | AADITYA PRAJAPATI | NANDKUMAR PRAJAPATI | Dr. Mukesh Patidar (Class Coordinator) <i>Mukesh</i> Principal |
| 2 | AASHIKA JAIN | NITIN JAIN | |
| 3 | AAYUSH GID | PANDURANG JI GID | |
| 4 | ABHISHEK PARMAR | NANDLAL PARMAR | |
| 5 | AKSHAT AWASTHI | SANJAY AWASTHI | |
| 6 | ANSH SINGH | DINESH SINGH | |
| 7 | ANSHUL JAYASWAL | SUNIL JAYASWAL | |
| 8 | ANUJ DHAKARIYA | SUNIL | |
| 9 | ARUN RATHORE | RAMVARAN RATHORE | |
| 10 | ARYAN DAS BAIRAGI | RAMESH BAIRAGI | |
| 11 | ASHOK PETHARI | MAHESH PETHARI | |
| 12 | AYUSH MALVI | KAILASH MALVI | |
| 13 | BHAVESH ZERBADE | MANOHAR ZERBADE | |
| 14 | CHIRAG JAIN | RAJESH | |
| 15 | DEEPAK YADAV | RAMBADAN YADAV | |
| 16 | DEVANSH PAL | PRADEEP PAL | |
| 17 | HARSH VARDHAN JAISWAL | SANJAY JAISWAL | |
| 18 | HARSHITA MAHANT | NARENDRA MAHANT | |
| 19 | HARSHITA PATIDAR | JITENDRA PATIDAR | |
| 20 | HIMANSHU CHOUDHARY | SHIVJI CHOUDHARY | |
| 21 | KANIKA CHOUHAN | SOURABH | |
| 22 | MALVIKA SHARMA | KAPIL SHARMA | |
| 23 | MANAS BORANA | DHIRAJ BORANA | |
| 24 | MOHINI SHARMA | RAMSHARAN SHARMA | |
| 25 | PIYUSH KOUSHAL | MAHESH | |
| 26 | RAJU SARWA | BHERULAL | |
| 27 | RAJVEEN MUKATI | MANOJ MUKATI | |
| 28 | ROHIT PANCHAL | OMPRAKASH PANCHAL | |
| 29 | ROHIT RAJORIYA | MURARILAL RAJORIYA | |
| 30 | SHIVAM KOURAV | PRADEEP KOURAV | |
| 31 | SHIVANI AHIRWAR | SEETARAM AHIRWAR | |
| 32 | SONALI SINGH RAJAWAT | DHEERENDRA | |
| 33 | SUMIT PATEL | BASANT PATEL | |
| 34 | TUSHAR JAISWAL | JITENDRA JAISWAL | |
| 35 | VIKAS RATHOR | MADAN | |
| 36 | VISHAL DAS BAIRAGI | GOPAL DAS BAIRAGI | |
| 37 | VISHAL PATEL | MANOJ PATEL | |
| 38 | VIVEK RAGHUWANSHI | LAKHAN RAGHUWANSHI | |
| 39 | YASH PRAJAPATI | SANJAY | |

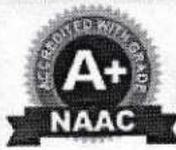


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Step VII - Display Evaluation Scheme on Notice board.

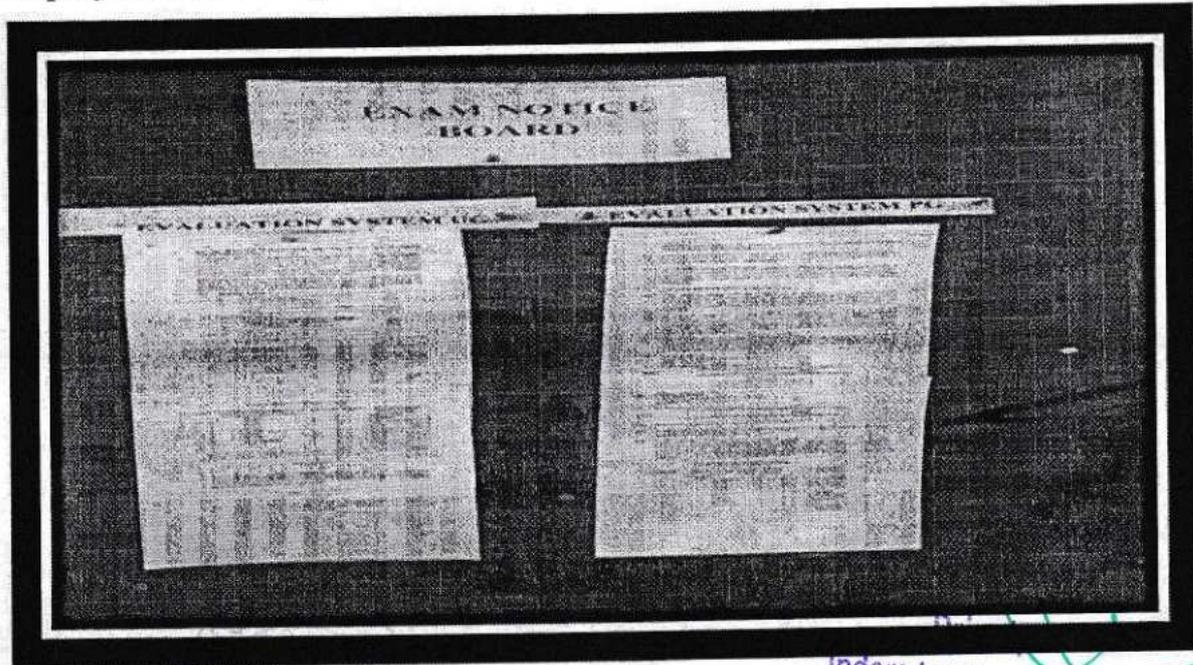
Mention in Scheme provided by Affiliating University

Rajiv Gandhi Proddvogi Vishwavidyalaya, Bhopal
New Scheme of Examination as per AICTE Flexible Curricula
Bachelor of Technology (B.Tech.) [Electronics & Communication Engineering]
For batches admitted in July, 2020 (w.e.f. July, 2021)

III Semester

| S.No. | Subject Code | C | Subject Name | Maximum Marks Allowed | | | | Total Marks | Contact Hours per week | | | Total Credits | | |
|--------------|--------------|-------|---|---|----------------|------------------|------------|-------------------|------------------------|-----------|----------|---------------|--------------------------------|---|
| | | | | Theory | | Practical | | | L | T | P | | | |
| | | | | End Sem. | Mid Sem. Exams | Quiz/ Assignment | End Sem. | | | | | | Term work Lab Work & Sessional | |
| 1. | BT301 | BSC-3 | Mathematics-III | 70 | 20 | 10 | - | - | 100 | 3 | 1 | - | 4 | |
| 2. | EC302 | DC-1 | Electronic Measurement & Instrumentation | 70 | 20 | 10 | - | - | 100 | 3 | 1 | - | 4 | |
| 3. | EC303 | DC-2 | Digital System Design | 70 | 20 | 10 | 30 | 20 | 150 | 3 | - | 2 | 4 | |
| 4. | EC304 | DC-3 | Electronic Devices | 70 | 20 | 10 | 30 | 20 | 150 | 3 | - | 2 | 4 | |
| 5. | EC305 | DC-4 | Network Analysis | 70 | 20 | 10 | 30 | 20 | 150 | 3 | - | 2 | 4 | |
| 6. | EC306 | DLC-3 | EM II Lab | - | - | - | 30 | 20 | 50 | - | - | 4 | 2 | |
| 7. | BT107 | DLC-1 | Evaluation of Internship-I completed at 1 year level | - | - | - | - | 50 | 50 | - | - | 4 | 2 | |
| 8. | BT307 | DLC-4 | 90 hrs Internship based on using various software's - Internship-II | To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in 5th semester. | | | | - | 50 | - | - | - | 4 | 2 |
| Total | | | | 360 | 100 | 60 | 120 | 130 | 720 | 15 | 2 | 14 | 24 | |
| 9. | BT308 | MC | Indian Constitution NSS/NCC | | | | | Non credit course | | | | | | |

Display Evaluation System on Notice Board



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2023-2024

Step VIII- Regular conduct of lectures/,tutorials/ lab classes duly monitored by HOD/Dean/ Director on regular basis and prepare Attendance register and dairy daily by all faculties.

Sample Attendance Register, Dairy Daily and Lesson Plan from IT

EVOLVE BETTER in all New





ATTENDANCE REGISTER

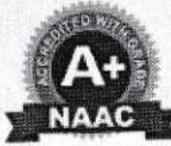
Session 2023-2024

| | |
|-------------------------|--------------------------------|
| NAME OF FACULTY :- | <u>LA. P. P. P. P. P.</u> |
| DESIGNATION :- | <u>Assistant Professor</u> |
| DEPARTMENT :- | <u>Department of Chemistry</u> |
| SEMESTER :- | <u>2nd</u> |
| SUBJECT CODE :- | <u>CH-201</u> |
| SUBJECT NAME :- | <u>Organic Chemistry</u> |
| TELEPHONE/MOBILE NO. :- | <u></u> |

Opposite Indian Institute of Management, Rau - Pithampur Road, Indore, Rau
Indore, Madhya Pradesh (M.P.) 453331 Telephone: 0731 4010520, 4010524 Fax: 4010522
Toll free: 1800 103 1069 Website: www.indoreinstitute.com Facebook: www.facebook.com/IISTCollege



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Time Table

Time Table
INDORE INSTITUTE OF SCIENCE & TECHNOLOGY
DEPARTMENT OF INFORMATION TECHNOLOGY
TIME TABLE
SESSION: July - Dec 2023

CLASS ROOM NO.23
 Class: IT III Year
 Class Coordinator: Ms. Lalita Bhanushali

EFFECTIVE FROM: 07-09-2023

| TIME / DAY | 10:00 AM - 11:00 AM | 11:00 AM - 11:50 AM | 11:50 AM - 12:40 PM | 12:40 PM - 1:30 PM | 1:30 PM - 2:10 PM | 2:10 PM - 3:00 PM | 3:00 PM - 3:50 PM | 3:50 PM - 4:40 PM | |
|------------|---------------------|---------------------|-----------------------|-----------------------|-------------------|-------------------|---------------------------------|---------------------------------|----------|
| MONDAY | TOC | OS | Full Stack-SIG | Android-II | PH | COC FDP | COC APET | Java NSJ | |
| TUESDAY | CN DB/OR BI | AK 10 | Android-II | PH | LUNCH | OS | CN | TOC | |
| WEDNESDAY | CN DB/OR BI | AK 12 | Android-II | PH | | OS | Advanced Java BI/Soft Skills BS | Java NSJ | |
| THURSDAY | TOC | Advanced Java | Full Stack-SIG | Android-II | | PH | COC FDP | CN | Java NSJ |
| FRIDAY | Java | TOC | Full Stack-SIG | Android-II | | PH | OS | Advanced Java BI/Soft Skills BS | Java NSJ |
| SATURDAY | SEP Lab BI & BS | A/NR LAB | FDP | CN | | AK | Library | APET | Spqr |
| SUNDAY | | | | | | | | | |
| | | Sub. Code | Subject | Faculty | | | | | |
| 1 | IT-201 | OS | Logic Programming | Ms. Anurag Bhanushali | | | | | |
| 2 | IT-202 | CN | Ms. Anurag Bhanushali | | | | | | |
| 3 | IT-203 | TOC | Ms. Anurag Bhanushali | | | | | | |
| 4 | IT-204 | JAVA Programming | Ms. Lalita Bhanushali | | | | | | |
| 5 | IT-205 | Advanced Java | Ms. Lalita Bhanushali | | | | | | |
| 6 | IT-206 | Soft Skill | Ms. Anurag Bhanushali | | | | | | |
| 7 | IT-208 | Project | Ms. Lalita Bhanushali | | | | | | |



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| | | |
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| | COURSE PLAN | 2023-24 |
| | | Branch IT Year III Sem V |

COURSE DESCRIPTION

| | |
|---------|---|
| 2.4.5.1 | Gain knowledge of history of operating systems and understand design issues associated with operating systems. |
| 2.4.5.2 | Understand issues related to filesystem interfaces and implementation, disk management. |
| 2.4.5.3 | Identify the process management policies and analyze and compare scheduling of processes by CPU along with memory management. |
| 2.4.5.4 | Understand concepts of memory management (including virtual memory), I/O and concurrency control. |
| 2.4.5.5 | Understand network distributed and multiprocessing operating system. |

THEORY COURSE OBJECTIVES

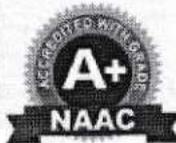
1. To understand the services provided by and the design of an operating system.
2. To understand the structure and organization of the file system.
3. To understand what a process is and how processes are scheduled and different approaches to memory management.
4. To understand what a process is and how processes are synchronized.
5. Students should understand the various types of operating system.

THEORY COURSE OUTCOMES

1. **CO_{245.1}**: Explain the role of operating system and its management policies and algorithm.
2. **CO_{245.2}**: Identify the process management policies and analyze and compare scheduling of processes by CPU along with memory management.
3. **CO_{245.3}**: Identify process synchronization and coordination handled by operating system
4. **CO_{245.4}**: Identify the I/O management and analyze and compare CPU concurrent processes problem.
5. **CO_{245.5}**: Summarize the introduction to network, multi-processor and distributed OS, and Elaborate on case studies for the same.



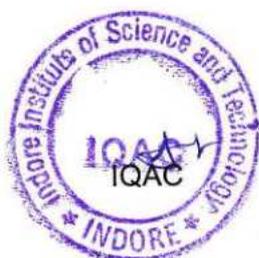
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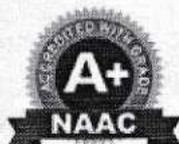
| | | |
|--|--------------------|--------------------------|
| | COURSE PLAN | 2023-24 |
| | | Branch IT Year III Sem V |

COURSE PLAN / LESSON PLAN

| S.No | Topics to be covered | Time | Ref | Teaching Aids |
|------|--|--------|-----|---------------|
| 1. | UNIT 1. Introduction to Operating Systems | 50 min | 1,5 | BB/PPT |
| 2. | Different Types of OS | 50 min | 1,5 | BB/PPT |
| 3. | Characteristics and features of an O/S | 50 min | 1,5 | BB/PPT |
| 4. | Operating Systems Services: Utility Programs | 50 min | 1,5 | BB/PPT |
| 5. | System Calls. | 50 min | 1,5 | BB/PPT |
| 6. | UNIT 3. CPU Scheduling: Process Concept, Scheduling Concepts, Types of Schedulers | 50 min | 1,5 | BB/PPT |
| 7. | Process State Diagram, Scheduling Algorithms, | 50 min | 1,5 | BB/PPT |
| 8. | Algorithms Evaluation | 50 min | 1,5 | BB/PPT |
| 9. | System calls for Process Management | 50 min | 1,5 | BB/PPT |
| 10. | Multiple Processor Scheduling; Concept of Threads | 50 min | 1,5 | BB/PPT |
| 11. | Memory Management Techniques – Partitioning, Swapping | 50 min | 1,5 | BB/PPT |
| 12. | Linear, loader, Segmentation, | 50 min | 1,5 | BB/PPT |
| 13. | Paging, | 50 min | 1,5 | BB/PPT |
| 14. | Paged Segmentation | 50 min | 1,5 | BB/PPT |
| 15. | Comparison of Overlay | 50 min | 1,5 | BB/PPT |
| 16. | Dynamic Linking and Loading | 50 min | 1,5 | BB/PPT |
| 17. | Virtual Memory Concept | 50 min | 1,5 | BB/PPT |
| 18. | Implementation by Demand Paging etc. | 50 min | 1,5 | BB/PPT |
| 19. | UNIT 4. Principles and Programming, Input/Output Problems | 50 min | 1,5 | BB/PPT |
| 20. | Asynchronous Operations, Speed gap Format conversion | 50 min | 1,5 | BB/PPT |
| 21. | I/O Interfaces, Programme Controlled I/O | 50 min | 1,5 | BB/PPT |
| 22. | Interrupt Driven I/O, Concurrent I/O | 50 min | 1,5 | BB/PPT |
| 23. | Real and Virtual Concurrency, Mutual Exclusion, Synchronization | 50 min | 1,5 | BB/PPT |
| 24. | Inter- Process Communication | 50 min | 1,5 | BB/PPT |
| 25. | Critical Section Problem | 50 min | 1,5 | BB/PPT |
| 26. | Semaphores – Binary and Counting Semaphores | 50 min | 1,5 | BB/PPT |
| 27. | WAIT & SIGNAL Operations and their implementation | 50 min | 1,5 | BB/PPT |
| 28. | Deadlocks: Deadlock Problems | 50 min | 1,5 | BB/PPT |
| 29. | Characterization, Prevention | 50 min | 2,3 | BB/PPT |
| 30. | Avoidance, Recovery | 50 min | 2,3 | BB/PPT |
| 31. | UNIT 2. File Systems: File Concept, User's and System Programmer's view of File System | 50 min | 2,3 | BB/PPT |



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| | COURSE PLAN | 2023-24 | | |
| | | Branch IT Year III Sem V | | |

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|-----|---|--------|-----|--------|
| 32. | Disk Organization, Tape Organization | 50 min | 2,3 | BB/PPT |
| 33. | Different Modules of a File System, Disk Space | 50 min | 2,3 | BB/PPT |
| 34. | Allocation Methods – Contiguous, Linked, Indexed | 50 min | 2,3 | BB/PPT |
| 35. | Directory Structures, File Protection | 50 min | 2,3 | BB/PPT |
| 36. | System Calls for File Management | 50 min | 2,3 | BB/PPT |
| 37. | Disk Scheduling Algorithms | 50 min | 2,3 | BB/PPT |
| 38. | UNIT 5. Introduction to Network | 50 min | 2,3 | BB/PPT |
| 39. | Distributed and Multiprocessor Operating Systems | 50 min | 2,3 | BB/PPT |
| 40. | Case Studies: Unix/Linux, WINDOWS, and other Contemporary Operating Systems | 50 min | 2,3 | BB/PPT |

TEXT BOOKS RECOMMENDED:

1. Silberschatz, Galvin, Gagne, "Operating System Concepts", Wiley, 9/E
2. William Stalling, "Operating Systems", Pearson Education

REFERENCE BOOKS:

1. Andrew S. Tanenbaum, "Modern Operating Systems", 3/e, Prentice Hall
2. Maurice J. Bach, "The Design of Unix Operating System", Prentice Hall of India,
3. Bovet & Cesati, "Understanding the Linux Kernel", O'Reily, 2/E.



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| COURSE PLAN | 2023-24 |
| | Branch IT Year III Sem V |

| | | | |
|--|--------|------------------|-------------------|
| Department of Computer Science and Engineering | IT-501 | Operating System | Professional Core |
|--|--------|------------------|-------------------|

| Lecture | Tutorial | Lab | Total Hours |
|---------|----------|-----|-------------|
| 4 | | 2 | |

UNIT 1

Introduction to Operating Systems: Function, Evolution, Different Types, Desirable Characteristics and features of an O/S, Operating Systems Services: Types of Services, Different ways of providing these Services – Utility Programs, System Calls.

UNIT 2

File Systems: File Concept, User's and System Programmer's view of File System, Disk Organization, Tape Organization, and Different Modules of a File System, Disk Space Allocation Methods – Contiguous, Linked, and Indexed. Directory Structures, File Protection, System Calls for File Management, Disk Scheduling Algorithms.

UNIT 3

CPU Scheduling : Process Concept, Scheduling Concepts, Types of Schedulers, Process State Diagram, Scheduling Algorithms, Algorithms Evaluation, System calls for Process Management; Multiple Processor Scheduling; Concept of Threads. Memory Management: Different Memory Management Techniques – Partitioning, Swapping, Segmentation, Paging, Paged Segmentation, Comparison of these techniques, Techniques for supporting the execution of large programs: Overlay, Dynamic Linking and Loading, Virtual Memory – Concept, Implementation by Demand Paging etc.

UNIT 4

Input / Output : Principles and Programming, Input/output Problems, Asynchronous Operations, Speed gap Format conversion, I/O Interfaces, Programme Controlled I/O, Interrupt Driven I/O, Concurrent I/O. Concurrent Processes : Real and Virtual Concurrency, Mutual Exclusion, Synchronization, Inter- Process Communication, Critical Section Problem, Solution to Critical Section Problem : Semaphores – Binary and Counting Semaphores, WAIT & SIGNAL Operations and their implementation. Deadlocks: Deadlock Problems, Characterization, Prevention, Avoidance, Recovery.

UNIT 5



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| IIST IIMR IIP ATTENDANCE REGISTER | | | | | | | | | | | | |
|-----------------------------------|-----------|------------------------------------|--|--|--|--|--|--|--|--|--|--|
| SESSION : 2-21-24 | | SUBJECT CODE / NAME : P.C. | | | | | | | | | | |
| SEMESTER : V | | S.No. Roll No. Name of the Student | | | | | | | | | | |
| 1 | 181812101 | Basu, Pallab | | | | | | | | | | |
| 2 | 181812102 | Aakash Yadav | | | | | | | | | | |
| 3 | 181812103 | Ajay Mishra | | | | | | | | | | |
| 4 | 181812104 | Anant Singh Bisht | | | | | | | | | | |
| 5 | 181812105 | Anant Khandelwal | | | | | | | | | | |
| 6 | 181812106 | Ankit Lavande | | | | | | | | | | |
| 7 | 181812107 | Anshu Singh Bhat | | | | | | | | | | |
| 8 | 181812108 | Arjun Nagar | | | | | | | | | | |
| 9 | 181812109 | Arundha Yadav | | | | | | | | | | |
| 10 | 181812110 | Arundha Khandelwal | | | | | | | | | | |
| 11 | 181812111 | Arundha Mishra | | | | | | | | | | |
| 12 | 181812112 | Arundha Singh | | | | | | | | | | |
| 13 | 181812113 | Arundha Mishra | | | | | | | | | | |
| 14 | 181812114 | Arundha Mishra | | | | | | | | | | |
| 15 | 181812115 | Arundha Mishra | | | | | | | | | | |
| 16 | 181812116 | Arundha Mishra | | | | | | | | | | |
| 17 | 181812117 | Arundha Mishra | | | | | | | | | | |
| 18 | 181812118 | Arundha Mishra | | | | | | | | | | |
| 19 | 181812119 | Arundha Mishra | | | | | | | | | | |
| 20 | 181812120 | Arundha Mishra | | | | | | | | | | |
| 21 | 181812121 | Arundha Mishra | | | | | | | | | | |
| 22 | 181812122 | Arundha Mishra | | | | | | | | | | |
| 23 | 181812123 | Arundha Mishra | | | | | | | | | | |
| 24 | 181812124 | Arundha Mishra | | | | | | | | | | |
| 25 | 181812125 | Arundha Mishra | | | | | | | | | | |
| 26 | 181812126 | Arundha Mishra | | | | | | | | | | |
| 27 | 181812127 | Arundha Mishra | | | | | | | | | | |
| 28 | 181812128 | Arundha Mishra | | | | | | | | | | |
| 29 | 181812129 | Arundha Mishra | | | | | | | | | | |
| 30 | 181812130 | Arundha Mishra | | | | | | | | | | |



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2023-2024

Frequency & Variety for Continuous Evaluation

Mechanism of Internal & External Assessment

Frequency of assessment component will be finalized by AEC/IQAC based on university guidelines and mention in MST notice and well informed faculty before the semester start. Currently two MST exam., 2 Quiz and 2 assignment minimum need to conduct and apart from these teachers are given free hand to use their innovative variety for evaluation methods like such as Open Book Tests, MCQs, etc. on continuous basis., whereby students are 'encouraged to participate in interactive sessions, group discussions, presentations and assignments

Indore Institute of Science and Technology Academic Calendar of 2023-24 (Session: July - Dec. 2023)

| July | | | | | | |
|------|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

| August | | | | | | |
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| Su | Mo | Tu | We | Th | Fr | Sa |
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| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

| September | | | | | | |
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| Su | Mo | Tu | We | Th | Fr | Sa |
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| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| October | | | | | | |
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| Su | Mo | Tu | We | Th | Fr | Sa |
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| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| November | | | | | | |
|----------|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| December | | | | | | |
|----------|----|----|----|----|----|----|
| Su | Mo | Tu | We | Th | Fr | Sa |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

List of Holidays for the session July to Dec. 2023

| Holiday | Date | Departmental Vacation |
|------------------|------------|--|
| Independence Day | 15/08/2023 | From 15 th Nov. to 16 th Nov. 2023 |
| Gandhi Jayanti | 02/10/2023 | |
| Good Friday | 14/04/2023 | |
| Christmas | 25/12/2023 | |
| New Year | 01/01/2024 | |



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Academic Calendar (Highlight the Internal Assessment communicate to students)

Indore Institute of Science & Technology

IIST/June-24/02

Academic Year 2023-24 (Even Sem.)

Date: 14.06.2024

NOTICE

Mid - Semester Tests (MST-II) of 1st and 2nd Year

Dear All,
This to inform you that the centralized MST-II for the session Jan. to July, 2024 scheduled in as mention below:

Dates for MST-II (Theory)

| MST-II | Year/Sem. | Date |
|---------------|---|--|
| Theory | 1st and 2nd Year | 28th (Friday), 29th (Saturday) June, 1st (Monday), 2nd (Tuesday) & 3rd (Wednesday) July, 2024. |

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-II exam will be from remaining units covered after MST-I.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
 05 Marks for Quiz - 1 after MST-I
 05 Marks for Quiz - 2 after/before MST-II
 Average of the two quizzes is taken for 05 marks.
 05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.

"Wishing you best wishes and good luck for the upcoming MST"

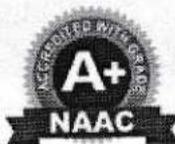
Dr. Keshav Patidar
Principal, IIST, Indore

C.C.to:-

1. All the students
2. Dean/HOD
3. All faculty & Staff
4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record

IQAC

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INDORE INSTITUTE OF SCIENCE & TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)

| Mode of Assessment | Assessment Tool | Description/Frequency with variety | Evaluation of Course Outcomes | Frequency of Assessment |
|--------------------|--|---|--|-------------------------|
| Direct | Teacher Assessment (Assignment and Quiz) | Two assignment and Two Quiz are given for each courses for continuous assessment | The Question in the internal examination and assignment /quiz is mapped against COs of respective course. The question for two internal examination and assignment and quiz are framed in such a way to cover all course outcomes. The final attainment for each Cos under direct assessment is calculated by taking average. | Continuous |
| Direct | Mid Semester Examination | Two Mid semester examinations are conducted within semester. Each MST Cover 2.5 Units | | Twice in a Semester |
| Direct | Lab Work and Sessional | Continuous evaluation is done through viva-voce, Lab report and laboratory quiz. | The Question in the internal Lab examination/ assignment /quiz is mapped against COs of respective course. The question for two internal examination/ assignment / quiz is framed in such a way to cover all course outcomes and experiment list. The final attainment for each Cos under direct assessment is calculated by taking average. | Continuous |
| Direct | Lab Assignment / MST / Quiz | | | Twice in a Semester |
| Indirect | Course Outcome Feedback | After the end of every semester, feedback is taken for individual subject. | | End of Semester |

Rubrics for PO's Assessment and Attainment

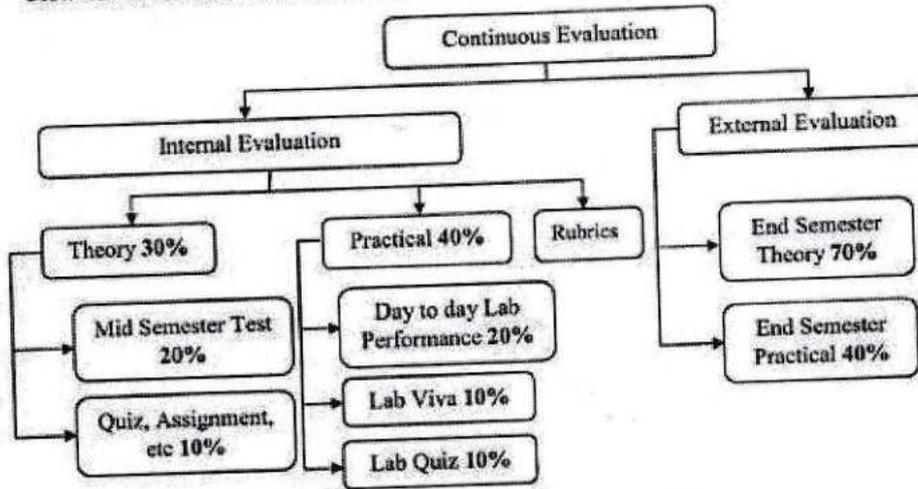


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Flow Chart for Continuous Evaluation



Note: - Based on Affiliating University Ordinance refer page number: 8

INDORE INSTITUTE OF SCIENCE AND TECHNOLOGY, INDORE
TIME TABLE
MST-II JUNE -2024

EXAM: B.Tech. (All Branches) IV Semester

| Date | 28/06/2024 (FRIDAY) | 29/06/2024 (SATURDAY) | 01/07/2024 (MONDAY) | 02/07/2024 (TUESDAY) | 03/07/2024 (WEDNESDAY) |
|-------------|--|---------------------------------------|---------------------------------|---|---|
| Branch/Time | 10:00AM-12:00 Noon | 10:00AM-12:00 Noon | 10:00AM-12:00 Noon | 10:00AM-12:00 Noon | 10:00AM-12:00 Noon |
| CS | BT 401 M-3 | CS402 ADA | CS 403 SE | CS404 COA | CS405 OS |
| IT | BT 401 M-3 | IT 403 ADA | IT402 CA | IT 404 ADC | IT 405 DBMS |
| AIML | AL 401 DS&L | AL402 ADA | AL403 SE | AL404 COA | AL405 ML |
| IOT | IS 401 PS & LA | IS402 IoT | IS 403 OS | IS 404 COA | IS 405 CN |
| EC | EC401 Energy & Environmental Engineering | EC402 Signals & Systems | EC403 Analog Communication | EC404 Control System | EC405 Analog Circuits |
| ME | ES401 Energy & Environmental Engineering | ME402 INSTRUMENTATION & CONTROL | ME403 THEORY OF MACHINES | ME404 FLUID MECHANICS | ME405 MANUFACTURING TECHNOLOGY |
| CE | ES401 Energy & Environmental Engineering | CE-402 Construction Technology | CE-403 Structural Analysis-I | CE-404 Transportation Engineering-I | CE-405 Engineering Geology & Remote Sensing |

Note- Candidate should note the dates & sequence of subjects very carefully.

(Signature)
Dr. Keshav Patidar
Principal



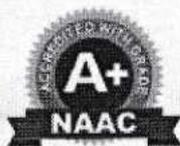
(Signature)
Principal
Indore Institute of Science
and Technology, Indore
Saturday, December 21, 2024



Internal Evaluation (Theory & Practical)

| S.No. | Session | Particular | Branch/Sem | Sub.Code | No.of A/Book |
|-------|---------------|------------|------------|----------|--------------|
| 1. | Jan-June 2024 | MST-II | CS/IV | CS-405 | 3 |
| 2. | Jan-June 2024 | MST-II | IT/IV | IT-402 | 3 |
| 3. | Jan-June 2024 | MST-II | AIML/VI | AL-602 | 2 |
| 4. | Jan-June 2024 | MST-II | EC/VI | EC-604 | 3 |
| 5. | Jan-June 2024 | MST-I | CE/IV | CE-404 | 2 |
| 6. | Jan-June 2024 | MST-I | AIML/VI | AL-604 | 3 |
| 7. | Jan-June 2024 | MST-I | CM/VIII | CM-802 | 3 |
| 8. | Jan-June 2024 | MST-I | EC/IV | EC-402 | 3 |
| 9. | July-Dec 2023 | MST-II | CS/III | CS-302 | 3 |
| 10. | July-Dec 2023 | MST-II | CS/III | CS-303 | 3 |
| 11. | July-Dec 2023 | MST-II | IT/III | ES-301 | 3 |
| 12. | July-Dec 2023 | MST-I | CS/VII | CS-701 | 3 |
| 13. | July-Dec 2023 | MST-I | CS/V | CS-502 | 3 |
| 14. | July-Dec 2023 | MST-I | CE/V | CE-503 | 3 |
| 15. | July-Dec 2023 | MST-I | CE/VII | CE-701 | 3 |





Jan-Jun 2024 MST II CS-405

| | |
|--|--|
| IIST IIP IIMR | |
| INSTITUTE: IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/> | INST. CODE: 0218 Course: B.Tech DATE: 01/07/24 |
| EXAM: MST-I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/> | SESSION (Odd/Even): 20.23.20.24 |
| NAME: Vaishnavi Shandani | ENROLLMENT: 0218CS21016 |
| BRANCH: CSE YEAR: II | SEMESTER: IV SECTION: CS-3 |
| SUB. NAME: Operating Systems | SUBJECT CODE: CS-405 |
| Q.NO. | A B A B A B A B A B A B A B |
| MARKS | |
| MAX. MARKS: 50 | MARKS OBTAINED: 35 |
| IN WORDS: Fifty | |
| NAME & SIGN. INVIGILATOR / INTERNAL | |
| NAME & SIGN. VALUER/EXTERNAL | |

NOTE: Start Writing From Here

| PART-B | | | | |
|--------|------------|---------|---------|-----------|
| Q.No. | Allocation | Max | Need | Available |
| | A B C D | A B C D | A B C D | A B C D |
| F0 | 0 0 1 2 | 0 0 1 2 | 0 0 0 0 | 1 0 2 0 |
| F1 | 1 0 0 0 | 1 2 5 0 | 0 5 5 0 | |
| F2 | 1 3 5 4 | 2 3 5 6 | 1 0 0 2 | |
| F3 | 0 6 3 2 | 0 6 3 2 | 0 0 2 0 | |
| F4 | 0 0 1 4 | 0 6 5 2 | 0 4 4 2 | |

(a) The content of the need matrix is :-

Jan-Jun 2024 MST II IT 402

| | |
|--|---|
| IIST IIP IIMR | |
| INSTITUTE: IIST <input type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/> | INST. CODE: 0218 Course: B.Tech DATE: 01/07 |
| EXAM: MST-I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/> | SESSION (Odd/Even): 20.23.20.24 |
| NAME: Remya Keshwani | ENROLLMENT: 0218IT21054 |
| BRANCH: Information Technology YEAR: I TH | SEMESTER: IV SECTION: R-4 |
| SUB. NAME: Computer Architecture | SUBJECT CODE: IT-402 |
| Q.NO. | A B A B A B A B A B A B A B |
| MARKS | 4 3 4 3 4 3 4 3 |
| MAX. MARKS: 40 | MARKS OBTAINED: 38 |
| IN WORDS: Thirty Eight | |
| NAME & SIGN. INVIGILATOR / INTERNAL | |
| NAME & SIGN. VALUER/EXTERNAL | |

NOTE: Start Writing From Here

Answer - 1.

Programmed I/O

In programmed I/O, they involve buffering data from I/O from the processor and they many time wait and wait for next word. In programmed Input / output they were need to transfer data from processor.

In programmed I/O an input / output device send request by the data register and they send to processor and processor count data and send positive Acknowledgment show the success and in which many time.



[Signature]
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Saturday, December 21, 2024



Jul- Dec 23 MST I CS 302

IIST IIP IIMR 62389

INSTITUTE: IIST IIP IIMR INST. CODE: 0818 Course: IT DATE: 31/10/23

EXAM: MST-I II III THEORY PRACTICAL SESSION: (Odd/Even) 20-23-20-23

NAME: DEBPTANA DARDHAN ENROLLMENT 0818CS221046

BRANCH: CSE YEAR: 2nd SEMESTER: 5th SECTION: A1

SUB. NAME: DISCRETE STRUCTURE SUBJECT CODE: CS302

| Q.NO. | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARKS | | | | | | | | | | | | | | |

MAX. MARKS: _____ MARKS OBTAINED: 25 IN WORDS: TWENTY FIVE

NAME & SIGN. INVIGILATOR / INTERNAL: _____ NAME & SIGN. VALUER/EXTERNAL: _____

NOTE: Start Writing From Here

PART A

Answer 1 :-

1) Explain Monoid and Group with the help of an example.

MONOID :-

For elements to be monoid, they need to be :-

- 1) A groupoid
- 2) A semi-groupoid

2) Groupoid :- To be a groupoid, the Abelian Group A (a, b) (A, a)

Jul- Dec 23 MST I CS 303

IIST IIP IIMR 63115

INSTITUTE: IIST IIP IIMR INST. CODE: 0818 Course: IT DATE: 31-10-23

EXAM: MST-I II III THEORY PRACTICAL SESSION: (Odd/Even) 20-23-20-23

NAME: Arati Kumari ENROLLMENT 0818CS221021

BRANCH: CSE YEAR: II SEMESTER: IB SECTION: CS-1

SUB. NAME: Data Structure SUBJECT CODE: CS-303

| Q.NO. | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MARKS | | | | | | | | | | | | | | |

MAX. MARKS: _____ MARKS OBTAINED: _____ IN WORDS: _____

NAME & SIGN. INVIGILATOR / INTERNAL: _____ NAME & SIGN. VALUER/EXTERNAL: _____

NOTE: Start Writing From Here

(PART-A)

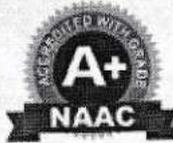
(Q2) Ans: Queue :- Queue Data Structure is based on the FIFO (first in first out).

When the memory is converted from the rear and deleted from front end, the we can not remove the element. It is the wastage of memory. So, Circular Queue introduced.

→ Circular Queue :- The closed data structure where we insert data from rear and delete from the front end.



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Mention in MST Notices

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IIST/May-24/044 *Academic Year 2023-24 (Even Sem.)* Date: 20.05.2024

NOTICE

Mid – Semester Tests (MST-II) of 3rd Year

Dear All,
This to inform you that the centralized MST-II for the session Jan. to July, 2024 scheduled in as mention below:

| <u>Dates for MST-II (Theory)</u> | | |
|----------------------------------|----------------------------|--|
| MST-II | Year/Sem. | Date |
| Theory | 3rd Year | 28 th (Tuesday), 29 th (Wednesday), 30 th (Thursday) & 31 st (Friday) May, 2024 |

1. It is mandatory for all the eligible students to appear and perform in the MST examination.
2. MST is of 20 Marks.
3. The marks obtained in the MST will be uploaded to the University portal.
4. Questions in the MST-II exam will be from remaining units covered after MST-I.
5. Ten Marks towards Quiz & Assignment is evaluated as follows:
 - 05 Marks for Quiz – 1 after MST-I
 - 05 Marks for Quiz – 2 after/before MST-II
 - Average of the two quizzes is taken for 05 marks.
 - 05 Marks for assignment.
6. The schedule and other details related to the MST can also be collected from the respective department.
7. No request will be entertained for the change of schedule, subject etc regarding the scheduled centralized MST.
8. Students having short of attendance will not be permitted for MST.
9. Clear outstanding dues payable to the institute in any form (Institute/Hostel/Transport fee) to appear in the MST.

Wishing you best wishes and good luck for the upcoming MST

Dr. Keshav Patidar
Principal, IIST, Indore

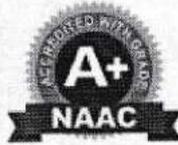
C.C.to:-

1. All the students
2. Dean/HOD
3. All Faculty & Staff
4. Exam Dept.
5. Registrar Office, 6. Account Dept., 7. Admin Dept., 8. IQAC, 9. DG Office, 10. Office Record

(Dept. of Information, Data-Processing, Planning, Research, Extension, Quality Assurance) - IIST
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 Saturday, December 21, 2024



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MST Examination Paper based on AICTE Exam Reform Policy

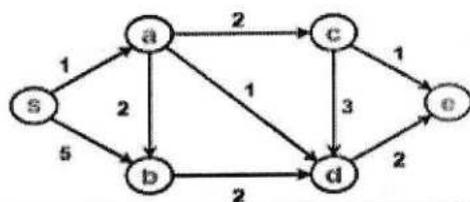


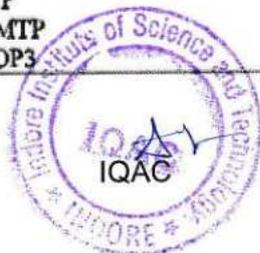
INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE DEPARTMENT OF CSE MID SEMESTER TEST-II MAY, 2024

SUBJECT NAME: Computer Network
SEMESTER: VI SEM / III YEAR
MAX MARKS: 20

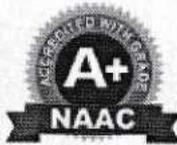
SECTION: ALL

SUBJECT CODE: CS-602
ENROLLMENT NO.:

| Q. No. | Questions | Marks | CO | BL | PO |
|--|---|-------|------------|------|---------------|
| PART -A (ATTEMPT ANY TWO QUESTIONS) | | | | | |
| 1. | Distinguish between Pure Aloha and Slotted Aloha and explain Bitmap Protocol in detail. | 4 | CO 3.6.2.3 | L4 | 1,2,3,4,11,12 |
| 2. | Explain CSMA/CD and how it is different from CSMA/CA | 4 | CO 3.6.2.3 | L4 | 1,2,3,4,11,12 |
| 3. | Explain Token ring and Token Bus | 4 | CO 3.6.2.3 | L4 | 1,2,3,11,12 |
| PART -B (ATTEMPT ANY TWO QUESTIONS) | | | | | |
| 4. | Using Dijkstra's Algorithm, find the shortest distance from source vertex 'S' to remaining vertices in the following graph- Also, write the order in which the vertices are visited.  | 4 | CO 3.6.2.4 | L5 | 1,11,12 |
| 5. | Determine the class, Default subnet mask, and the Network and host Id of following IP addresses. i. 126.5.1.5 ii. 192.222.5.64 iii. 222.113.64.22 iv. 172.16.7.91 | 4 | CO 3.6.2.4 | L5 | 1,11,12 |
| 6. | Compare IPv4 & IPv6 with header format. | 4 | CO 3.6.2.4 | L5 | 1,11,12 |
| PART -B (ATTEMPT ANY ONE QUESTION) | | | | | |
| 7. | Explain congestion control. | 4 | CO 3.6.2.5 | L2,4 | 1,2,3,11,12 |
| 8. | Write a short note on any two of the following i. DNS ii. FTP iii. SMTP iv. POP3 | 4 | CO 3.6.2.5 | L4,6 | 1,2,3,11,12 |



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Sample MST Copies

| | | | | | | | | | | | | |
|---|---------------------|--|-----------------|------------------------------------|---|--------------------------------|---|---|---|---|---|---|
| INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/> | | INST. CODE : 0810 | Course : B.Tech | DATE : 05/03/24 | | | | | | | | |
| EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> | | THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/> | | SESSION : (Odd/Even) 20.25.2023.24 | | | | | | | | |
| NAME : Vaishnavi Bhandari | | ENROLLMENT 0810 CS221216 | | | | | | | | | | |
| BRANCH : CSE | YEAR : II | SEMESTER : IV | SECTION : CS-3 | | | | | | | | | |
| SUB. NAME : Operating Systems | | SUBJECT CODE : CS-405 | | | | | | | | | | |
| Q.NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| | A | B | A | B | A | B | A | B | A | B | A | B |
| MARKS | | | | | | | | | | | | |
| MAX. MARKS : 20 | MARKS OBTAINED : 18 | | | IN WORDS : Eighteen | | | | | | | | |
| NAME & SIGN. INVIGILATOR / INTERNAL | | | | | | NAME & SIGN. VALUER / EXTERNAL | | | | | | |

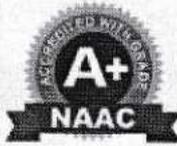
NOTE : Start Writing From Here

PART-B

| Area | Allocation | | | | Max | | | | Need | | | | Available | | | |
|----------------|------------|---|---|---|-----|---|---|---|------|---|---|---|-----------|---|---|---|
| | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D |
| P ₀ | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 5 | 2 | 0 |
| P ₁ | 1 | 0 | 0 | 0 | 1 | 7 | 5 | 0 | 0 | 7 | 5 | 0 | | | | |
| P ₂ | 1 | 3 | 5 | 4 | 2 | 3 | 5 | 6 | 1 | 0 | 0 | 2 | | | | |
| P ₃ | 0 | 6 | 3 | 2 | 0 | 6 | 5 | 2 | 0 | 0 | 2 | 0 | | | | |
| P ₄ | 0 | 0 | 1 | 4 | 0 | 6 | 5 | 6 | 0 | 6 | 4 | 2 | | | | |

(a) The content of the need matrix is :-





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2023-2024

Seeg
Vasth

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Science & Technology

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Indore Institute of
Pharmacy

IIMR
Indore Institute of
Management & Research

| | | | | | | | | | | | | | | |
|---|------------------------|--|----------------------|----------------------------------|---|---|---|------------------------------|---|---|---|---|---|---|
| INSTITUTE : IIST <input checked="" type="checkbox"/> IIP <input type="checkbox"/> IIMR <input type="checkbox"/> | | INST. CODE : 0818 | Course : B.Tech | DATE : 09/07/24 | | | | | | | | | | |
| EXAM : MST-I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> | | THEORY <input type="checkbox"/> PRACTICAL <input type="checkbox"/> | | SESSION : (Odd/Even) 20.23.20.24 | | | | | | | | | | |
| NAME : Vaishnavi Raje | | ENROLLMENT : 0818CS221217 | | | | | | | | | | | | |
| BRANCH : CSE | YEAR : 2 nd | SEMESTER : 4 th | SECTION : CS3 | | | | | | | | | | | |
| SUB. NAME : OS | | SUBJECT CODE : | | | | | | | | | | | | |
| Q.NO. | 1 2 3 4 5 6 7 8 | | | | | | | | | | | | | |
| | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| MARKS | | | | | | | | | | | | | | |
| MAX. MARKS : 20 | MARKS OBTAINED : 17 | | IN WORDS : Seventeen | | | | | | | | | | | |
| NAME & SIGN. INVIGILATOR / INTERNAL | | | | | | | | NAME & SIGN. VALUER/EXTERNAL | | | | | | |

NOTE : Start Writing From Here

PART - B

Ques 4

| Q.No. | Allocation | | | | Max | | | | Need | | | | Available | | | |
|-------|------------|---|---|---|-----|---|---|---|------|---|---|---|-----------|---|---|---|
| | A | B | C | D | A | B | C | D | A | B | C | D | A | B | C | D |
| P0 | 0 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 5 | 2 | 0 |
| P1 | 1 | 0 | 0 | 0 | 1 | 7 | 5 | 0 | 0 | 7 | 5 | 0 | | | | |
| P2 | 1 | 3 | 5 | 4 | 2 | 3 | 5 | 6 | 1 | 0 | 0 | 2 | | | | |
| P3 | 0 | 6 | 3 | 2 | 0 | 6 | 5 | 2 | 0 | 0 | 2 | 0 | | | | |
| P4 | 0 | 0 | 1 | 4 | 0 | 6 | 5 | 6 | 0 | 6 | 4 | 2 | | | | |

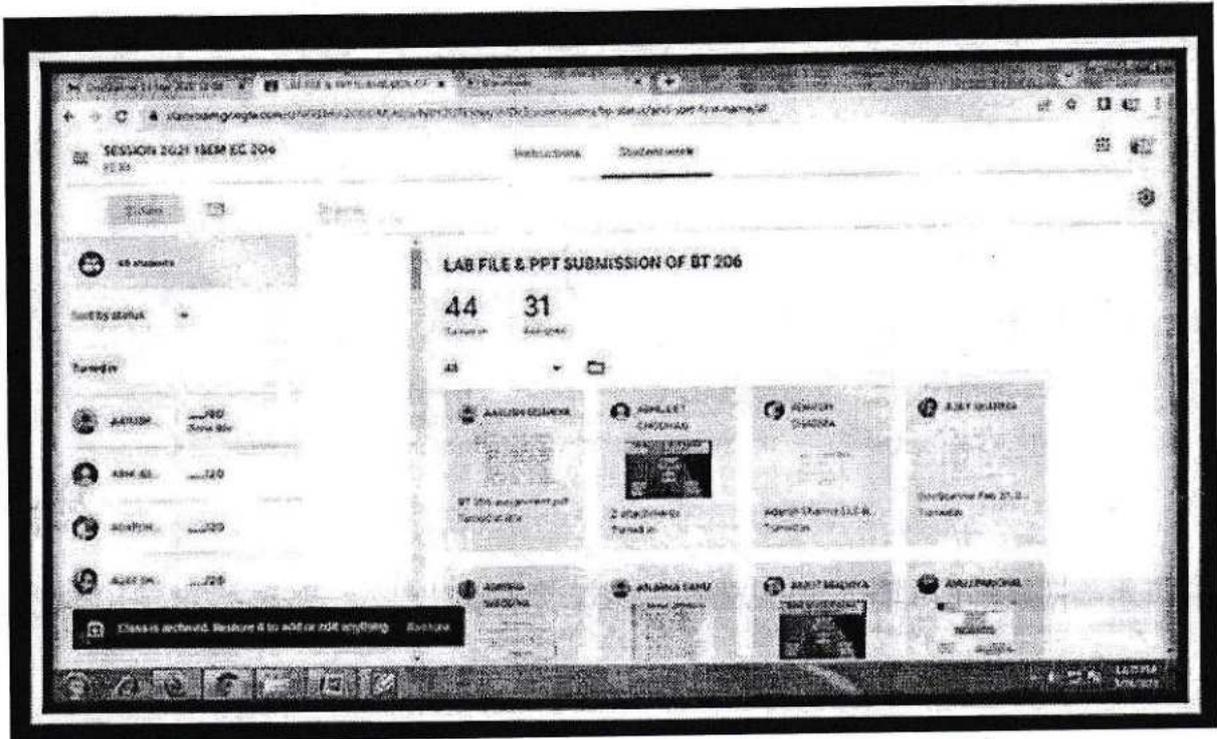
(ii) Raje Rite



Principal
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& Technology, Indore
Saturday, December 21, 2024



11. Lab File Submission and Group wise PPT Submission for Book Review



12. Lab File Submission

| Assignment | Turned in | Assigned | Graded | Ungraded |
|---|-----------|----------|--------|----------|
| Experiment 5 MATLAB Lab - Dec 04 11, 2023 | 24 | 6 | 0 | 1 |
| Experiment 4 MATLAB Lab - Dec 04 11, 2023 | 27 | 3 | 0 | 1 |
| Experiment 1 MATLAB Lab - Dec 04 11, 2023 | 27 | 3 | 0 | 1 |
| Experiment 2 MATLAB Lab - Dec 04 11, 2023 | 23 | 7 | 0 | 1 |
| MATLAB Quiz 1 MATLAB Lab - Dec 04 11, 2023 | 20 | 10 | 0 | 1 |
| MATLAB Quiz 2 MATLAB Lab - Dec 04 11, 2023 | 17 | 13 | 0 | 1 |
| Experiment 1 MATLAB Lab - Dec 02 10, 2023 | 24 | 6 | 0 | 1 |



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13. Rubrics

11. RUBRICS FOR PROJECT EVALUATION

RUBRICS FOR PROJECTS RUBRICS#1-FIRST REVIEW(EVALUATION)(100 MARKS)

| S. No | Rubrics | Excellent (19-20) | Good (17-18) | Average (15-16) | Partially Acceptable (13-14) | Poor (10-12) | Remarks |
|-------|----------------------------|--|---|---|---|--|---------|
| 1 | Attendance (20M) | Attended all meetings on time; demonstrated proactive involvement. | Missed 1-2 meetings but informed in advance; generally punctual. | Missed 3-4 meetings or occasionally late without prior notice. | Frequently absent or late; minimal effort to inform in advance. | Rarely present; no communication about absences. | |
| 2 | Teamwork (20M) | Actively collaborates; resolves conflicts constructively; motivates team. | Collaborates well; contributes to discussions; helps solve minor conflicts. | Participates inconsistently; minor contributions; occasional conflict issues. | Limited involvement in team tasks; conflicts disrupt performance. | Minimal participation; negative impact on team dynamics. | |
| 3 | Literature (20M) | Comprehensive review; uses diverse, credible sources; synthesizes insights. | Good coverage of sources; analysis is logical but lacks depth. | Limited sources; basic understanding of the topic with few insights. | Insufficient sources; lacks critical analysis. | No literature review or irrelevant sources. | |
| 4 | Guide Reporting (20M) | Regular updates; thorough documentation; incorporates feedback effectively. | Provides regular updates; documentation is adequate with minor gaps. | Inconsistent updates; basic documentation; limited feedback incorporation. | Rare updates; incomplete or unclear documentation. | No updates or documentation provided. | |
| 5 | Overall Presentation (20M) | Engaging, clear communication; professional visuals; strong question handling. | Clear communication; good visuals; answers most questions confidently. | Basic presentation; visuals lack impact; struggles with questions. | Unclear communication; visuals poorly designed; weak Q&A. | Disorganized; no visuals or ineffective communication. | |



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RUBRICS FOR PROJECTS RUBRICS#2-FINAL REVIEW/END TERM(100 MARKS)

| S.No | Rubrics | Excellent (19-20) | Good (17-18) | Average (15-16) | Partially Acceptable (13-14) | Poor (10-12) | Remarks |
|------|---|---|--|--|---|--|---------|
| 1 | Innovation in the Project (20M) | The project demonstrates groundbreaking creativity and original thinking. It introduces entirely new ideas, solutions, or methodologies, potentially setting a benchmark in the domain. The approach is innovative, solving problems that have not been addressed before. | Includes a moderate degree of originality and innovation. Builds effectively on existing ideas but lacks groundbreaking contributions. Some components are well-thought-out and creative. | Shows minimal creativity; primarily relies on existing work or standard solutions. The project has limited innovative features that don't significantly stand out. | Demonstrates little or no originality. The project mostly replicates existing solutions with minimal improvements or deviations. | Complete by lacks innovation or creativity. It appears entirely derivative or fails to attempt a novel approach. | |
| 2 | Literature Survey (20M) | Comprehensive and systematic review of high-quality literature. Sources are highly relevant and diverse, covering journals, books, and conferences. Insightful synthesis of information shows critical thinking and contributes directly to the project's foundation. | Adequate and well-organized review of relevant literature. Most sources are current and appropriate, although the depth of analysis may be limited. Shows reasonable understanding of the field. | Basic review with limited diversity in sources. The analysis is present but superficial, with minimal connections to the project. Some sources may be outdated. | Few or irrelevant sources; lacks depth or breadth. The review shows little understanding of the topic or its connection to the project. | Minimal or no literature survey. Sources are irrelevant or absent, and there's little to no analysis. | |
| 3 | Theoretical Modeling/Experimental Design (20M) | Exceptional theoretical framework or design, with precise experimental observations or calculations. Models or experiments are detailed, accurate, and reproducible. All objectives are achieved with measurable outcomes. | Well-developed models or experiments, with minor inaccuracies. Achieves most objectives but lacks exceptional rigor or depth in observations. | Theoretical models and experimental results are basic. While functional, they lack precision and detailed analysis. Objectives are only partially achieved. | Weak or incomplete models and experiments. Observations lack reliability or depth. The project fails to achieve significant objectives. | No coherent models or experimental observations. The project fails to produce usable or reproducible results. | |

| | | | | | | | |
|---|---|---|--|--|---|--|--|
| 4 | Organization of the Project Report (20M) | The report is flawlessly structured, adhering completely to prescribed guidelines. All sections (e.g., abstract, introduction, objectives, results, references) are well-organized, professional, and visually appealing. | Follows most guidelines with minor inconsistencies. The structure is logical and clear, with only small deviations or formatting errors. | Basic adherence to guidelines. The report is readable but lacks polish and contains noticeable errors in structure or formatting. | Poorly organized report with significant deviations from guidelines. Content is difficult to follow due to unclear structure or errors. | Disorganized report with no adherence to guidelines. The structure is chaotic, and the content is difficult to understand. | |
| 5 | Summarize Ultimate Findings (20M) | The findings are clearly articulated, highly impactful, and thoroughly supported by evidence. They align seamlessly with the project objectives, offering significant insights or applications. | Findings are clear and well-supported, with reasonable depth. While impactful, they may lack groundbreaking insights or perfect alignment with objectives. | Findings are presented but lack depth or clarity. Limited evidence is provided to support conclusions, and the impact is moderate. | Findings are unclear, weak, or incomplete. Evidence is insufficient or poorly linked to conclusions. | Findings are absent, unsupported, or irrelevant. There is no clear conclusion or takeaway from the project. | |



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External Evaluation

J. External Evaluation

1. External and Internal Examiner Record

| Sl. No. | Branch/ Sub Code/Sec. | Name of Internal Examiner | Name of External Examiner | Internal | | | | External | | | Remarks |
|---------|--------------------------|---------------------------|-----------------------------|---|------------|------------|------------|------------|------------|--|---------|
| | | | | No. of A/E | No. of A/E | No. of A/E | No. of A/E | No. of A/E | No. of A/E | | |
| 1 | CS-805 Major Proj | Mr. Nishant Jain | Dr. Chandrabandhu Bhatnagar | 31980182 | 63 | | | | | | |
| 2 | CS-805 Major Proj | Mr. Vinod Gupta | Mr. Pratik Kothari | 31980181 - 31980215 | 65 | | | | | | |
| 3 | CS-805 JOT | Mr. Anshuman Singh | Mr. Anshuman Singh | 31980216 - 31980287 | 72 | | | | | | |
| 4 | IT-801 IS | Mr. Nishant Bhatnagar | Mr. Nishant Bhatnagar | 31980288 - 31980354 | 67 | | | | | | |
| 5 | EC-803 OFC | Mr. Anshuman Singh | Mr. Anshuman Singh | 31980289 - 31980323 Mix A/B-44 31980355 | 48 | | | | | | |
| 6 | ME-803 RAC | Mr. Vishal Patel | Mr. Pravin Popter | 31980355 - 31980385 | 31 | | | | | | |
| 7 | CE-806 ERS | Mr. Anshuman Singh | Mr. Anshuman Singh | 31980386 - 31980415 | 30 | | | | | | |
| 8 | CP-803 CPMS | Mr. Anshuman Singh | Dr. Anshuman Singh | 31980416 - 31980444 | 29 | | | | | | |

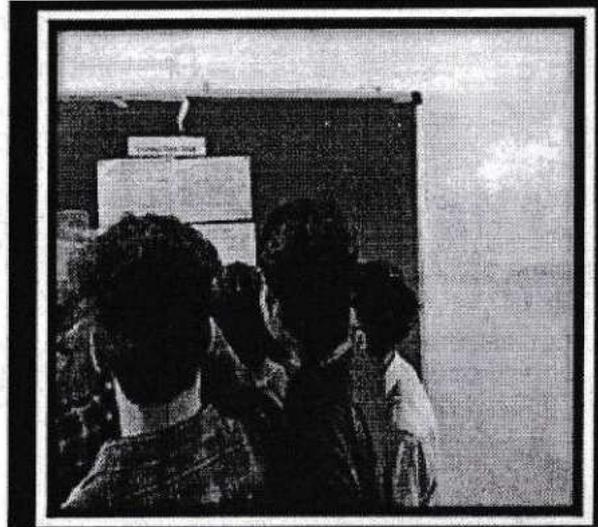
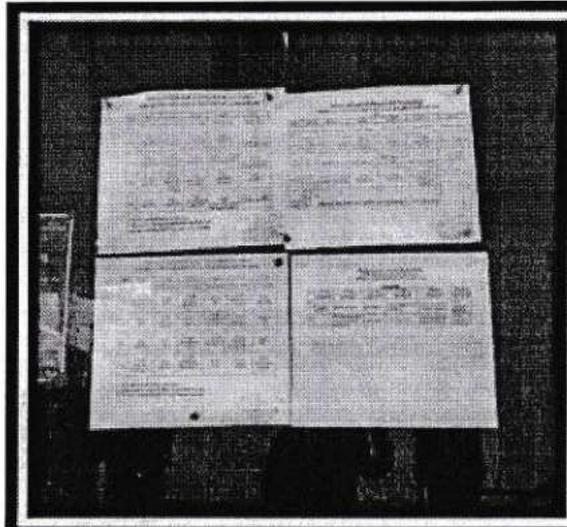
Date: 09/12/24

2. End Term Examination Viva voce UG and PG.



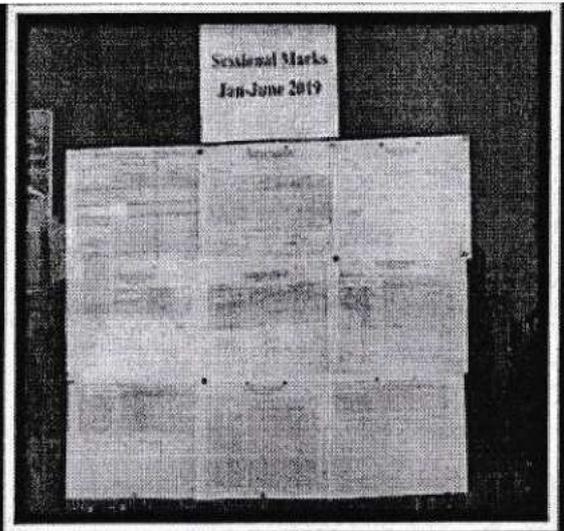
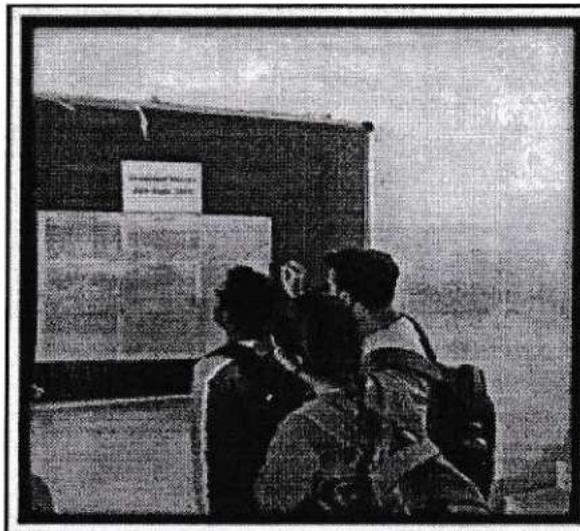


Display of External / Internal Timetable on Notice Board



Display of External Exam Timetable on Notice Board

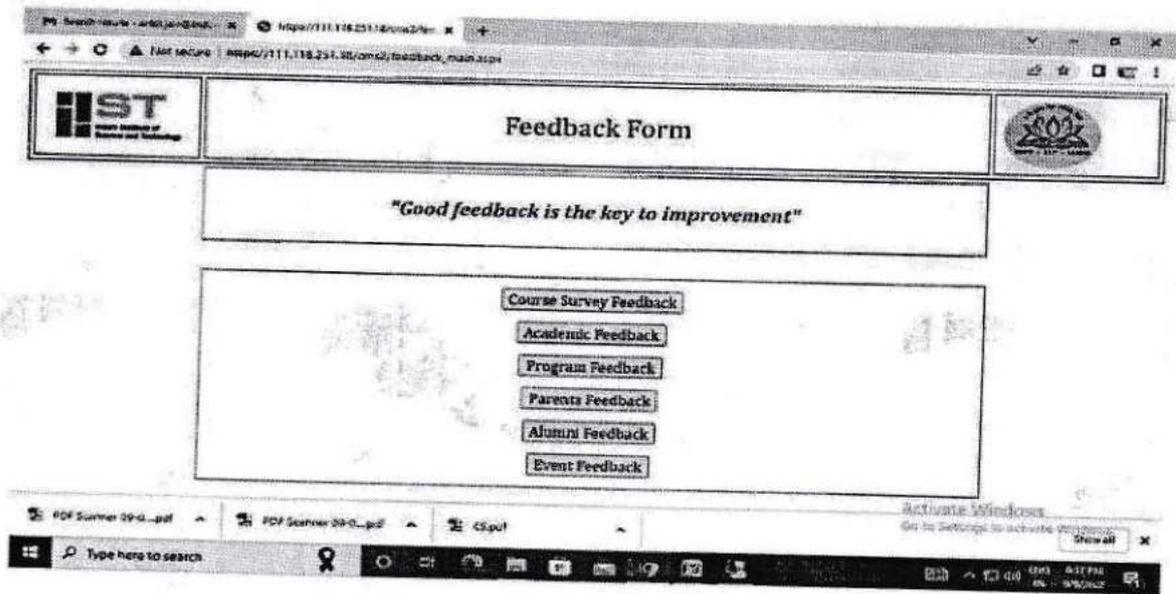
University Notice for display internal marks

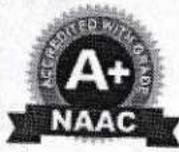


Internal Marks display on Notice Board



Various Type of Feedback System @ IIST





Semester / Course End Survey

| | |
|---|----------|
| INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE | |
| COURSE WISE FEED BACK REPORTS | |
| College | IIST |
| Branch | BTech-CE |
| Sem | Ist |
| Session | 2023-24 |
| <input type="button" value="Generate"/> | |

| SNo | Question | Feedback |
|-----|--|----------|
| 1 | Ability to design and develop web-based solutions with effective graphical user interface for the need of sustainable development. | 71.58 |
| 2 | Ability to solve the social, cultural, ethical issues with computer science and engineering solutions. | 68.42 |
| 3 | Ability to work individually and as a member or leader in diverse teams | 75.79 |
| 4 | Assessment and marking have been fair | 69.47 |
| 5 | Broadly educated and will have understanding of ethical responsibilities. | 76.84 |
| 6 | Capability to manage the software and projects in multidisciplinary environments. | 72.63 |
| 7 | Capable of self-educate in case of technological change and to engage in independent life-long learning. | 70.53 |
| 8 | Course outcomes are clear in most courses. | 70.53 |
| 9 | Demonstrate basic knowledge in mathematics, science, engineering, and humanities. | 73.68 |
| 10 | Demonstrate with excellent programming, analytical, logical and problem-solving skills. | 72.63 |
| 11 | Design and develop the computer-based systems. | 71.58 |
| 12 | Faculty has made the subject interesting | 78.95 |
| 13 | Faculty is good at explaining things | 75.26 |
| 14 | I have been able to contact faculty when I needed to | 72.63 |
| 15 | Identify, formulate and analyze the complex engineering problems. | 74.74 |
| 16 | Overall I am satisfied with the quality of the course. | 76.70 |



A. Sharma



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2023-2024

Program End Survey

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

PROGRAM WISE FEED BACK REPORTS

| | |
|---|-----------|
| College | IIST |
| Branch | B.Tech-CE |
| Session | 2023-24 |
| <input type="button" value="Generate"/> | |

| SN | Question | Feed Back |
|----|---|-----------|
| 1 | Faculties are available when I need them | 89.44 |
| 2 | Faculties are good at explaining things | 83.33 |
| 3 | Faculties treat students with respect | 84.44 |
| 4 | How interesting the teaching is in most subjects in your programme? | 71.11 |
| 5 | Ability to work in groups in team work | 76.67 |
| 6 | Able to acquire high and industry centric skills in the field of civil engineering field. | 82.22 |
| 7 | Able to analyze different system by applying knowledge of surveying. | 76.11 |
| 8 | Able to generate drawings related to civil engineering. | 67.78 |
| 9 | Able to understand knowledge of civil engineering projects to work as a leader or member. | 75 |
| 10 | Assistance from most faculty outside of class | 81.67 |
| 11 | Being informed about things in the department | 81.11 |
| 12 | Capable to engage in independent and life-long learning in specialized technologies. | 68.33 |
| 13 | Communication skills & Writing skills | 73.33 |
| 14 | Communication skills & Writing skills | 72 |
| 15 | Course outcomes are clear in most courses | 82.22 |
| 16 | Develop analytical skills | 81.67 |
| 17 | How helpful and accurate the career counseling is in your programme? | 73.33 |
| 18 | I actively participate in most class discussions | 83.89 |



Handwritten signature



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Parents Feedback

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY , INDORE

PARENTS WISE FEED BACK REPORTS

| | |
|-----------------|----------|
| College | IIST |
| Branch | BTech-CE |
| Session | 2023-24 |
| Generate | |

| Question | Feedback |
|---|----------|
| Rate your ward on Co-curricular and extra-curricular activities aided in overall grooming and personality development of the student. | 91.67 |
| Do you Feel Student counseling and mentoring helped in inculcating moral and ethical values among the students. | 93.85 |
| Rate - Constant communication about your ward academic progress report, discipline and attendance. | 92.31 |
| Rate Facilities available namely library, hostel facility, Teaching learning process, Administrative help, Examination. | 90.77 |
| Rate the Quality of Infrastructure facilities namely laboratory, facilitated learning of curriculum-based software development tools. | 90.77 |
| Rate Workshops, Seminars, Conferences aided the professional development of student (Your Ward). | 92.31 |
| Rate your ward on Conducive learning environment due to good interaction with the teachers. | 84.62 |

Asham



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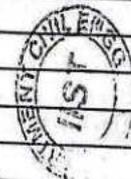
Alumni Feedback

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

ALUMNI FEED BACK REPORTS

| | |
|---|----------|
| College | IIST |
| Branch | BTech-CE |
| Session | 2023-24 |
| <input type="button" value="Generate"/> | |

| SNo | Question | Feedback |
|-----|--|----------|
| 1 | Ability to engage in independent and lifelong learning & adapt to rapid changes in civil engineering and its allied areas. | 89.33 |
| 2 | Ability to participate as members of multidisciplinary design teams along with mechanical, electrical, computer science and other engineers | 90.67 |
| 3 | Apply ethical principles committed to professional ethics, responsibilities and norms of engineering practices and regulatory Building Bye Laws. | 89.33 |
| 4 | Awareness to apply engineering solutions in global, national, and societal contexts | 89.33 |
| 5 | Broadly educated and will have an understanding of ethical responsibilities | 88 |
| 6 | Course provided relation with the research field and is beneficial for higher studies also | 90.67 |
| 7 | Demonstrate basic knowledge in mathematics, science, engineering, and humanities. | 93.33 |
| 8 | Demonstrate the ability to apply advanced technologies to solve contemporary and new problems. | 92 |
| 9 | Demonstrate the ability to choose and apply contextual knowledge to assess social health safety, legal and cultural issues and consequent responsibilities relevant to professional civil engineering practices. | 93.33 |
| 10 | Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary setting. | 94.67 |
| 11 | How do you rate the academic initiatives taken by the college to bridge the gap between industry & academia? | 90.67 |
| 12 | How would you rate any new skills learnt in the due course of your study? | 89.33 |
| 13 | How would you rate the course curriculum for fulfilling your expectations? | 89.33 |
| 14 | How would you rate the curriculum prescribed for your degree during your term in college? | 85.33 |
| 15 | How would you rate the quality of education imparted in college? | 89.33 |
| 16 | Identify, formulate and solve complex problems related to civil engineering design, planning and construction. | 88 |
| 17 | Proficient in English language in both communicative and technical forms | 90.67 |



Sharma



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Event Feedback

Search results - ankit.jain@indore... x | https://111.118.251.18/cms2/Event-Feedback.aspx

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

EVENT FEEDBACK FORM

College: IIST | Branch: BTech-EC

Event Name: | Date of Event: | Your Name (Optional): | Remark (Optional):

| SNO | Question | Very Satisfied | Satisfied | Good | Average | Poor |
|-----|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 1 | The presenter/ lecturer/ trainer/ facilitator(s) was/were knowledgeable | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 2 | The presenter/lecturer/trainer/ facilitator(s) was/were well-prepared | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 3 | The content of the workshop/ training/ seminar was useful. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

PDF Scanner 09-0...pdf | PDF Scanner 09-0...pdf | CS.pdf | Activate Windows

Academic Feedback (Sample)

Search results - ankit.jain@indore... x | https://111.118.251.18/cms2/istfeedbackreport.aspx

COLLEGE: IIST
BRANCH: BE CSE
YEAR: 2ND
SESSION: 2020-21
SECTION: I

First FeedBack
Total Feedback = 67

| SNO | Subject | How is The teachers Command on the subject | How Clearly the teacher explains the topics with example | How interactive and interesting the class is | How competent the teacher is in clarifying the doubts and solving problem in the class | Is teacher providing necessary course materials for the subject | Use of teaching aids like PPT, Audio Visuals etc. | How Friendly your teacher is in helping you beyond the class | How regular and punctual the teacher is | Avg Score |
|----------|---------|--|--|--|--|---|---|--|---|-----------|
| | | Percentage (%) | Percentage (%) | Percentage (%) | Percentage (%) | Percentage (%) | Percentage (%) | Percentage (%) | Percentage (%) | Avg |
| DIST STR | | 78.21 | 78.81 | 82.09 | 82.39 | 78.81 | 79.4 | 80 | 77.31 | 79.63 |
| M-III | | 81.19 | 80 | | | | | | | 78.51 |

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Students Satisfaction Survey

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE

Student Satisfaction Survey

| | | | |
|---------|----------|---------|---------|
| Name | Roll No. | Branch | Year |
| Section | Class | Section | Section |
| Teacher | Class | Class | Class |
| Year | Class | Class | Class |
| Year | Class | Class | Class |
| Year | Class | Class | Class |
| Year | Class | Class | Class |
| Year | Class | Class | Class |
| Year | Class | Class | Class |
| Year | Class | Class | Class |
| Year | Class | Class | Class |

Give feedback on the following aspects of your learning experience (Optional)

| |
|--|
| |
| |
| |



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Saturday, December 21, 2024



Sample Result Analysis of ECE

Indore Institute of Science and Technology
Department of Electronics & Communication Engineering
Result Analysis B Tech VIIIth Semester [Jan - June 2024]

| S.No. | Enrollment No. | Name | EC001- [T] | EC002- [T] | EC003- [T] | EC004- [P] | EC005- [P] | Result Div. | SGPA | CGPA | Division |
|-------|----------------|---------------------|------------|------------|------------|------------|------------|----------------|------|------|---------------------------|
| 1 | 0818EC201002 | Aashutosh Sharma | C+ | C+ | C+ | A | A | PASS | 7.32 | 7.67 | First Division with Merit |
| 2 | 0818EC201004 | Abhishek Patidar | C+ | C | B | A | A | A+ | 7.5 | 7.5 | First Division with Merit |
| 3 | 0818EC201006 | Aman Bhardwaj | C | C+ | B | A+ | A+ | A+ | 7.78 | 7.94 | First Division with Merit |
| 4 | 0818EC201007 | Aman Kumar | C+ | C+ | B | A | A | A | 7.5 | 7.57 | First Division with Merit |
| 5 | 0818EC201008 | Amit Soni | C+ | C | C+ | B+ | B+ | A | 6.89 | 6.75 | First Division |
| 6 | 0818EC201009 | Amit Tiwari | B+ | C+ | B+ | A | A | A | 7.56 | 8.04 | First Division with Merit |
| 7 | 0818EC201011 | Anand Verma | C+ | C+ | C+ | A | A | A+ | 7.32 | 7.51 | First Division with Merit |
| 8 | 0818EC201012 | Anjali Patil | B+ | B+ | B+ | A | A+ | A | 7.22 | 7.05 | First Division with Merit |
| 9 | 0818EC201013 | Anupam Aleriya | C | C | B | A | A | A+ | 7.32 | 7.51 | First Division with Merit |
| 10 | 0818EC201015 | Ashish Raghuvanshi | C | C+ | C | A | A | A+ | 7.22 | 7.05 | First Division with Merit |
| 11 | 0818EC201016 | Atharv Vyas | C | C | C | A | A | A | 6.78 | 0 | WITH HOLD |
| 12 | 0818EC201017 | Ayush Malviya | B | B | B+ | A | A+ | A | 6.22 | 7.89 | First Division with Merit |
| 13 | 0818EC201018 | Ayush Soni | B | B | B+ | A | A+ | A | 6.44 | 6.14 | First Division with Merit |
| 14 | 0818EC201019 | Dipanshu Patidar | C+ | C | C+ | B+ | B+ | A | 6.89 | 0 | WITH HOLD |
| 15 | 0818EC201020 | Dipesh Waghe | C+ | C+ | C+ | B+ | B+ | A | 7.11 | 7.34 | First Division |
| 16 | 0818EC201021 | Divyanshu Bhati | B+ | B+ | A | A+ | A+ | A+ | 9.06 | 9.09 | First Division with Merit |
| 17 | 0818EC201022 | Gautam Dahale | B | B | B+ | A+ | A+ | A+ | 6.5 | 6.41 | First Division with Merit |
| 18 | 0818EC201023 | Gautam Singh Panwar | C | C | C+ | A | A | A+ | 7.17 | 7.27 | First Division |
| 19 | 0818EC201024 | Gitesh Ahirwar | C+ | C+ | B+ | A | A | A+ | 7.89 | 7.46 | First Division |
| 20 | 0818EC201025 | Goutam Shivde | C | C | C+ | B+ | B+ | A | 6.72 | 6.97 | First Division |
| 21 | 0818EC201028 | Jay Pandey | B | B | B+ | A+ | A+ | A+ | 6.5 | 6.75 | First Division with Merit |
| 22 | 0818EC201029 | Khushboo Malviya | B+ | B+ | B+ | A+ | A+ | A+ | 6.89 | 6.73 | First Division with Merit |
| 23 | 0818EC201030 | Kuldeep Solanki | C+ | C | C+ | A | A | A+ | 7.32 | 7.35 | First Division |



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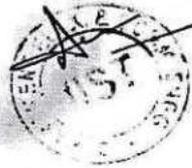


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2023-2024

| | | | | | | | | | | | | |
|----|--------------|---------------------|----|----|----|----|----|----|------|------|------|-----------------------------------|
| 24 | 0818EC201031 | Naina Varma | C+ | C+ | B | A | A | A+ | PASS | 7.72 | 4.11 | First Semester with Honours |
| 25 | 0818EC201033 | Nandini Soni | C+ | C+ | C+ | A+ | A+ | A+ | PASS | 7.78 | 8.25 | First Semester with Honours |
| 26 | 0818EC201034 | Necraj Patil | B | B | B | A+ | A+ | A+ | PASS | 8.33 | 8.22 | First Semester with Honours |
| 27 | 0818EC201035 | Nikita Tomar | B | B | B+ | A | A | A+ | PASS | 8.28 | 8.41 | First Semester with Honours |
| 28 | 0818EC201036 | Nikunj Giri Goswami | C | C | C | A | A | A | PASS | 6.76 | 8 | WITH HELD |
| 29 | 0818EC201038 | Prakhar Solanki | B | B | B | A | A | A+ | PASS | 8.11 | 7.85 | First Semester with Honours |



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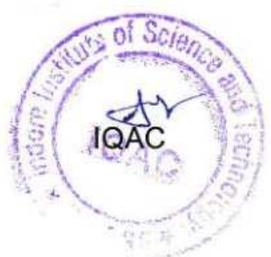
| | | | | | | | | | | | | |
|----|--------------|--------------------------|----|----|-----|----|----|----|-----------------|------|------|--|
| 30 | 0818EC201039 | Priya Sharma | B | B | B+ | A | A | A | PASS | 8.06 | 8.02 | First Division With Honours |
| 31 | 0818EC201040 | Rahul Thakur | C+ | C+ | C+ | A+ | A | A+ | PASS | 7.61 | 7.61 | First Division With Honours |
| 32 | 0818EC201041 | Rashika Diwekar | C+ | B | B+ | A+ | A+ | A+ | PASS | 8.33 | 8.31 | First Division With Honours |
| 33 | 0818EC201042 | Ritika Diwekar | B | C+ | B+ | A+ | A+ | A+ | PASS | 8.28 | 8.30 | First Division With Honours |
| 34 | 0818EC201044 | Shabina Khan | C+ | C+ | C+ | A | A+ | A+ | PASS | 7.72 | 7.9 | First Division With Honours |
| 35 | 0818EC201045 | Sharad Pratap Singh Bais | B | B | B+ | A | A+ | A+ | PASS | 8.44 | 8.34 | First Division With Honours |
| 36 | 0818EC201047 | Siddharth Rathore | C+ | C+ | C+ | A | A+ | A+ | PASS | 7.72 | 7.86 | First Division With Honours |
| 37 | 0818EC201048 | Simran Rajput | B+ | B+ | B+ | A+ | A+ | A+ | PASS | 8.89 | 8.82 | First Division With Honours |
| 38 | 0818EC201049 | Somesh Sharma | C+ | C+ | B | A | A | A+ | PASS | 7.72 | 7.86 | First Division With Honours |
| 39 | 0818EC201051 | Tanisha Singhai | B | B | B+ | A+ | A | A | PASS | 8.11 | 8.21 | First Division With Honours |
| 40 | 0818EC201052 | Tanmay Soni | B+ | C+ | B | A | A | A+ | PASS | 8.06 | 7.94 | First Division With Honours |
| 41 | 0818EC201054 | Vaidik Soni | C+ | C | C+ | A | A | A+ | PASS | 7.33 | 7.94 | First Division With Honours |
| 42 | 0818EC201057 | Vishal Kaushal | B | B | A | A | A | A+ | PASS | 8.44 | 7.86 | First Division With Honours |
| 43 | 0818EC201058 | Yash Raghuwanshi | B | B | C+ | A | A+ | A+ | PASS | 8.11 | 7.12 | First Division With Honours |
| 44 | 0818EC201059 | Yogita Patel | A | B | A | A+ | A+ | A+ | PASS | 8 | 8.85 | First Division With Honours WITH MERIT |
| 45 | 0818EC213D03 | Sachin Kochale | C | C | C | A | A | A+ | PASS | 7 | 8 | First Division With Honours |
| 46 | 0818EC213D04 | Shreya Kumari | A | B | B+ | A+ | A+ | A+ | PASS | 8.43 | 8.12 | First Division With Honours |
| 47 | 0818EC213D05 | Renuka Satish Sontakke | B+ | A | A | A+ | A+ | A+ | PASS | 9.28 | 8.84 | First Division With Honours WITH MERIT |
| 48 | 0818EC213D06 | Sonu Suryawanshi | C | C | C++ | A | A | A | PASS WITH GRACE | 6.78 | 8 | First Division With Honours |

Subject Wise Result Analysis B Tech VIIIth Semester [Jan - June 2024]

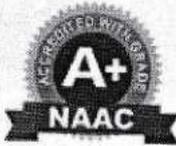
| S.No. | Subject Code | Subject | Name of Faculty | No. of students appeared | A+ | A | B+ | B | C+ | C | CM | F | Passed percentage |
|-------|--------------|---|---|--------------------------|----|----|----|----|----|----|----|---|-------------------|
| 1 | EC801-[T] | Optical Fibre Communication | Mr. Pranav Paranjpe | 48 | 0 | 2 | 7 | 13 | 17 | 9 | 0 | 0 | 100 |
| 2 | EC802-[T] | Departmental Elective (802 (B) Wireless C | Mr. Devendra S Mandloi | 48 | 0 | 1 | 4 | 15 | 16 | 13 | 0 | 0 | 100 |
| 3 | EC803-[T] | Open Elective (803(A) Wireless Networks) | Dr. Mukesh Patidar | 48 | 0 | 4 | 16 | 9 | 14 | 4 | 1 | 0 | 100 |
| 4 | EC801-[P] | Optical Fibre Communication Lab | Mr. Pranav Paranjpe | 48 | 15 | 29 | 4 | 0 | 0 | 0 | 0 | 0 | 100 |
| 5 | EC804-[P] | Advanced Communication Engg. Lab | Mr. Devendra S Mandloi | 48 | 20 | 24 | 4 | 0 | 0 | 0 | 0 | 0 | 100 |
| 6 | EC805-[P] | Major Project-II | Mr. Devendra S Mandloi + Mr. Aditya Shi | 48 | 34 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |



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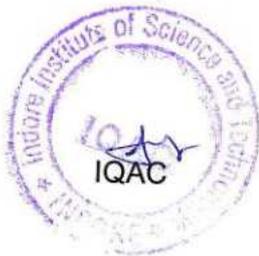
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Student wise RGPV Result Analysis

Table with Institute, Department, Course, Branch, Semester, Exam Duration, Date of Results declaration, Regular/EX, Batch, and Grading/Non Grading information.

Main table with columns: Sr. No., Candidate NO., Student Name, Subject Cnd (THEORY), PRACTICAL, Part Val, IQPA, and CGPA. Lists 26 students and their performance across various subjects.



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Sample Result Analysis of ME

RGPV Result Analysis

| | |
|------------------------------|-------------|
| Name of Institute: | IIST |
| Name of Department: | ME |
| Course: | B TECH |
| Branch: | MECH |
| Semester: | 5 |
| Exam Duration: | Dec-jan2024 |
| Date of Results declaration: | 2/12/2024 |
| Regular/EX: | R |
| Batch: | 2021 |
| Grading/Non Grading | Grading |

| | |
|---|-----|
| Total No. of Students Appear Exam | 27 |
| Total No. of Students Pass | 22 |
| Total No. of Students FAIL | 5 |
| Pass Percentage | 81% |
| No. of Students obtaining more than 75% marks | 3 |
| No. of Students in University Merit List | 0 |
| No. of Students Ist Division | 17 |



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Faculty wise RGPV Result Analysis

| | |
|------------------------------|-------------|
| Name of Institute: | IIST |
| Name of Department: | ME |
| Course: | B TECH |
| Branch: | MECH |
| Semester: | 5 |
| Exam Duration: | Dec-jan2024 |
| Date of Results declaration: | 2/12/2024 |
| Regular/EX: | R |
| Batch: | 2021 |
| Grading/Non Grading | Grading |

Subject wise Result Analysis

Sem / Year:- 4th/ 2nd (Grading)

Batch:-2021-2025

| S.No. | Subject | Subject Code | Name of Faculty | No. of students appeared | No. of students passed | Passed percentage | A+/A/B/B+ | C+/C | D | F |
|-------|-------------------------------------|--------------|---------------------|--------------------------|------------------------|-------------------|-----------|------|---|---|
| 1 | IC Engines | ME501- [T] | MR. Akashdeep Gupta | 27 | 26 | 96% | 1 | 20 | 5 | 1 |
| 2 | Mechanical Vibration | ME502- [T] | MR. VIPIN PATEL | 27 | 25 | 93% | 3 | 17 | 7 | 2 |
| 3 | Dynamics of Machine | ME503- [T] | Dr. S.R. dravid | 27 | 24 | 89% | 2 | 16 | 9 | 3 |
| 4 | Industrial Engineering & Ergonomics | ME504- [T] | MR. UMESH BADODE | 27 | 27 | 100% | 7 | 18 | 2 | 0 |



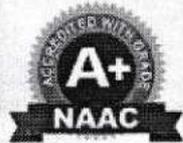
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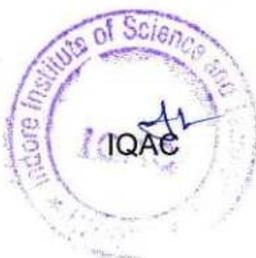
Semester summary of Result Analysis

| Admission Year | Course | Year | Semester | No. of Students Appeared | No. of Students Fail | No. of Students Passed | Passed % |
|----------------|--------|------|----------|--------------------------|----------------------|------------------------|----------|
| IV | BTECH | IV | VIII | 67 | 0 | 67 | 100.00% |
| III | BTECH | III | VI | 61 | 1 | 60 | 98.36% |
| II | BTECH | II | IV | 74 | 12 | 62 | 83.78% |



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INFORMATION TECHNOLOGY

Result Analysis Summary

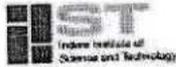
Academic Session – Jan-June 2024

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Sample Course File from IT

| | | |
|--|--------------------|---------------------------------|
| | COURSE PLAN | 2023-24 |
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COURSE FILE: - OPERATING SYSTEM

| | |
|---------------------------------------|---|
| Name of Faculty | Ms. Lakshita Mandpe |
| Designation | Asst. Prof. |
| Department | Information Technology |
| Course | B. Tech. |
| Name of Programme | IT |
| Subject | Operating System |
| Subject Code | IT-501 |
| Class (Year/Semester/ Section) | III/V |
| Academic Year and Term: (EVEN/ODD) | 2023 / ODD |
| Number of Students | 62 |
| Target | |
| Prerequisite | Basic Computer knowledge, Knowledge of C/C++ |



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INDEX

| S. No. | CONTENT /ITEM NO. | PAGE NO. | REMARKS | | |
|--------|---|----------|------------------|-------|-----------|
| | | | FACULTY | HOD | Dean |
| 1. | Vision And Mission Of The Institute | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 2. | Vision And Mission Of The Department | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 3. | Program Educational Objective Of Department (PEO's) | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 4. | Program Outcomes of Department (PO's) | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 5. | Program Specific Outcomes (PSO's) | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 6. | Course Syllabus as per RGPV | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 7. | Prescribed Books / References / Text book | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 8. | List of Experiments | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 9. | Course Description | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 10. | Theory Course Objectives and Course Outcome (COs) | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 11. | Lab Objectives and Outcome (COs) | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 12. | Lab Outcome mapping with Experiment list | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 13. | Align Course Outcome with Lab Outcome | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 14. | COs mapping with POs and PSOs | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 15. | Evaluation Scheme | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 16. | Academic Calendar (Institute and University) | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 17. | Time Table of Class as well as Individual | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 18. | Course Schedule Plan (Theory and Lab) | | <i>Borandepe</i> | Margi | <i>dr</i> |
| 19. | Tutorial Sheet if applicable | | <i>Borandepe</i> | Margi | <i>dr</i> |



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|-----|--|--------|-------|----|
| 20. | Assignment Sheet | Prasad | Margi | dr |
| 21. | Quiz Questions (Covering all units) | Prasad | Margi | dr |
| 22. | Question Bank | Prasad | Margi | dr |
| 23. | Continuous assessment record for Practical | Prasad | Margi | dr |
| 24. | Question Papers Of Mid Term Exam-I | Prasad | Margi | dr |
| 25. | Marks and Gap Analysis in Mid Term I | Prasad | Margi | dr |
| 26. | Remedial Action Taken To Remove the Gaps after mid Term I | Prasad | Margi | dr |
| 27. | Question Papers Of Mid Term Exam-II | Prasad | Margi | dr |
| 28. | Gap Analysis in Mid Term II | Prasad | Margi | dr |
| 29. | Remedial Action Taken To Remove the Gaps after mid Term II | Prasad | Margi | dr |
| 30. | Content beyond syllabus report | Prasad | Margi | dr |
| 31. | Model Question Paper With Key Solution | Prasad | Margi | dr |
| 32. | University Question Paper (Last three years) | Prasad | Margi | dr |
| 33. | Student Performance Report | Prasad | Margi | dr |
| 34. | Result Analysis | Prasad | Margi | dr |
| 35. | Certificate | Prasad | Margi | dr |



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VISION & MISSION OF INSTITUTE

To be a nationally recognized institution of excellence in technical education and produce competent professionals capable of making valuable contribution to the society.

Mission of the Institute:

- To promote academic growth by offering state-of-the-art undergraduate and postgraduate programmes.
- To undertake collaborative projects which offer opportunities for interaction with academia and industry.
- To develop intellectually capable human potential who are creative, ethical and gifted leaders.




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VISION & MISSION OF DEPARTMENT

Vision of the Department:

To be a center of academic excellence in the field of computer science and engineering education.

Mission of the Department:

- Strive for academic excellence in computer science and engineering through well designed course curriculum, effective classroom pedagogy and in-depth knowledge of laboratory work.
- Transform under graduate engineering students into technically competent, socially responsible and ethical computer science and engineering professionals.
- Create computing centers of excellence in leading areas of computer science and engineering to provide exposure to the students on latest software tools and computing technologies.
- Incubate, apply and spread innovative ideas by collaborating with relevant industries and R&D labs through focused research groups.
- Attain these through continuous team work by a group of committed faculty, transforming the computer science and engineering department as a leader in imparting computer science and engineering education and research.



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PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO 1: To provide students with a solid foundation in mathematics, computer science and engineering, basic science fundamentals required to solve the computing problems.

PEO 2: To expose students to latest computing technologies and software tools, so that they can comprehend, analyze, design and create innovative computing products and solutions for real life problems.

PEO 3: To inculcate in students multi-disciplinary approach, professional attitude and ethics, communication and teamwork skills, and ability to relate computer engineering issues with social awareness.

PEO 4: To develop professional skills in students that prepare them for immediate employment and for life-long learning in advanced areas of computer science and related fields which enable them to be successful entrepreneurs.




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PROGRAMME OUTCOMES (POs)

PO 1: Apply the knowledge of mathematics, science and engineering fundamentals for the solution of computer science and engineering problems.

PO 2: Ability to identify, formulate and analyze the complex engineering problems

PO 3: Ability to design and develop the computer based systems to meet desired needs within realistic constraints such as public health and safety, environmental, agriculture, economic and societal considerations

PO 4: Ability to demonstrate with excellent programming, analytical, logical and problem solving skills

PO 5: Ability to use the emerging technologies, skills, and modern software tools to design, develop, test and debug the programs or software

PO 6: Ability to include and solve the social, cultural, ethical issues with computer science and engineering solutions

PO 7: Ability to design and develop web based solutions with effective graphical user interface for the need of sustainable development

PO 8: Apply ethical principles and commit to professional ethics and responsibilities and norms of the computer science and engineering practices.

PO 9: Ability to work individually and as a member or leader in diverse teams to accomplish a common goal.

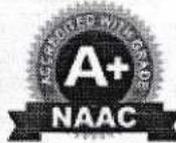
PO 10: Ability to communicate effectively in both verbal and written forms with engineering community and society

PO 11: Knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team to manage the software and IT based projects in multidisciplinary environments.

PO 12: Appreciation of technological change and the need for independent life-long learning



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PROGRAM SPECIFIC OUTCOMES (PSO's)

A graduate of the Computer Science and Engineering Program will demonstrate:

PSO 1: Computer Science Specific Skills: The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by understanding the core principles and concepts of computer science and thereby engage in national grand challenges.

PSO 2: Programming and Software Development Skills: The ability to acquire programming efficiency by designing algorithms and applying standard practices in software project development to deliver quality software products meeting the demands of the industry.

PSO 3: Professional Skills: The ability to apply the fundamentals of computer science in competitive research and to develop innovative products to meet the societal needs thereby evolving as an eminent researcher and entrepreneur.

PEO-MISSION MAPPING MATRIX

| PEO's | M1 | M2 | M3 | M4 | M5 |
|-------|----|----|----|----|----|
| PEO1 | 3 | 1 | | | |
| PEO2 | | | 3 | 2 | |
| PEO3 | | 2 | | | 3 |
| PEO4 | | 1 | | 1 | |



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| | | | |
|--|--------|------------------|-------------------|
| Department of Computer Science and Engineering | IT-501 | Operating System | Professional Core |
|--|--------|------------------|-------------------|

| | | | |
|---------|----------|-----|-------------|
| Lecture | Tutorial | Lab | Total Hours |
| 4 | | 2 | |

UNIT 1

Introduction to Operating Systems: Function, Evolution, Different Types, Desirable Characteristics and features of an O/S, Operating Systems Services: Types of Services, Different ways of providing these Services – Utility Programs, System Calls.

UNIT 2

File Systems: File Concept, User's and System Programmer's view of File System, Disk Organization, Tape Organization, and Different Modules of a File System, Disk Space Allocation Methods – Contiguous, Linked, and Indexed, Directory Structures, File Protection, System Calls for File Management, Disk Scheduling Algorithms.

UNIT 3

CPU Scheduling : Process Concept, Scheduling Concepts, Types of Schedulers, Process State Diagram, Scheduling Algorithms, Algorithms Evaluation, System calls for Process Management; Multiple Processor Scheduling; Concept of Threads. Memory Management: Different Memory Management Techniques – Partitioning, Swapping, Segmentation, Paging, Paged Segmentation, Comparison of these techniques, Techniques for supporting the execution of large programs: Overlay, Dynamic Linking and Loading, Virtual Memory – Concept, Implementation by Demand Paging etc.

UNIT 4

Input / Output : Principles and Programming, Input/output Problems, Asynchronous Operations, Speed gap Format conversion, I/O Interfaces, Programme Controlled I/O, Interrupt Driven I/O, Concurrent I/O. Concurrent Processes : Real and Virtual Concurrency, Mutual Exclusion, Synchronization, Inter- Process Communication, Critical Section Problem, Solution to Critical Section Problem : Semaphores – Binary and Counting Semaphores, WAIT & SIGNAL Operations and their implementation. Deadlocks: Deadlock Problems, Characterization, Prevention, Avoidance, Recovery.

UNIT 5



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Introduction to Network, Distributed and Multiprocessor Operating Systems. Case Studies: Unix/Linux, WINDOWS and other Contemporary Operating Systems.

TEXT BOOKS RECOMMENDED:

1. Silberschatz, Galvin, Gagne, "Operating System Concepts", Wiley, 9/E
2. William Stalling, "Operating Systems", Pearson Education

REFERENCE BOOKS:

1. Andrew S. Tanenbaum, "Modern Operating Systems", 3/e, Prentice Hall
2. Maurice J. Bach, "The Design of Unix Operating System", Prentice Hall of India.
3. Bovet & Cesati, "Understanding the Linux Kernel", O'Reilly, 2/E.




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LIST OF EXPERIMENTS

All experiments (wherever applicable) should be performed through the following steps.

1. Write a program for FCFS (non pre-emptive) to find turn around time and waiting time.
2. Write a program for SJF (non pre-emptive) to find turn around time and waiting time.
3. Write a program to demonstrate FIFO.
4. Write a program to demonstrate LRU.
5. Write a program to simulate the working of FCFS.
6. Write a program to simulate the working of SCAN.
7. Write a program to avoid deadlock using Banker's algorithm.
8. Write a program to demonstrate producer consumer problem using semaphores.
9. Write a program to simulate working of Dining Philosopher's problem.
10. Write a program to simulate sequential file allocation strategy.
11. Write a program to simulate indexed file allocation strategy
12. Write a program to design primitive kernel.
13. Case study of VI editor'




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COURSE DESCRIPTION

| | |
|---------|---|
| 2.4.5.1 | Gain knowledge of history of operating systems and understand design issues associated with operating systems. |
| 2.4.5.2 | Understand issues related to filesystem interfaces and implementation, disk management. |
| 2.4.5.3 | Identify the process management policies and analyze and compare scheduling of processes by CPU along with memory management. |
| 2.4.5.4 | Understand concepts of memory management (including virtual memory), I/O and concurrency control. |
| 2.4.5.5 | Understand network distributed and multiprocessing operating system. |

THEORY COURSE OBJECTIVES

1. To understand the services provided by and the design of an operating system.
2. To understand the structure and organization of the file system.
3. To understand what a process is and how processes are scheduled and different approaches to memory management.
4. To understand what a process is and how processes are synchronized.
5. Students should understand the various types of operating system.

THEORY COURSE OUTCOMES

1. **CO_{245.1}**: Explain the role of operating system and its management policies and algorithm.
2. **CO_{245.2}**: Identify the process management policies and analyze and compare scheduling of processes by CPU along with memory management.
3. **CO_{245.3}**: Identify process synchronization and coordination handled by operating system
4. **CO_{245.4}**: Identify the I/O management and analyze and compare CPU concurrent processes problem.
5. **CO_{245.5}**: Summarize the introduction to network, multi-processor and distributed OS, and Elaborate on case studies for the same.



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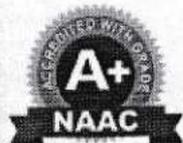
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| COURSE OBJECTIVES | COURSE OUTCOMES |
|---|--|
| 1. To understand the services provided by and the design of an operating system. | 1. Explain the role of operating system and its management policies and algorithm |
| 2. To understand the structure and organization of the file system. | 2. Identify the process management policies and analyze and compare scheduling of processes by CPU along with memory management. |
| 3. To understand what a process is and how processes are scheduled and different approaches to memory management. | 3. Identify process synchronization and coordination handled by operating system |
| 4. To understand what a process is and how processes are synchronized. | 4. Identify the I/O management and analyze and compare CPU concurrent processes problem. |
| 5. Students should understand the various types of operating system. | 5. Summarize the introduction to network, multi-processor and distributed OS, and Elaborate on case studies for the same. |

Note: For each of the OBJECTIVE indicate the appropriate OUTCOMES to be achieved.




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LAB Objective:

This course introduces the general architecture of computers. It covers functions of operating system as process, memory, disk, file and resources management. Process, disk and file management can be applied for better system performance and can be used for designing a new system.

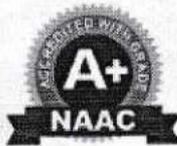
LAB Outcomes:

After completing this course satisfactorily, students will be able to:

1. CO2.4.5.1: Apply and analyze various scheduling criteria.
2. CO2.4.5.2: Apply and identify efficient page replacement algorithms.
3. CO2.4.5.3: Identify various disk scheduling algorithms on the basis of their total seek time.
4. CO2.4.5.4: Identify and explain resource management by operating system.
5. CO2.4.5.5: Explain different file management strategies



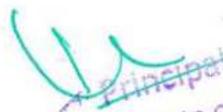
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| Lab Outcomes | Lab Experiments |
|--|--|
| Apply and analyze various scheduling criteria. | <ol style="list-style-type: none"> 1. Write a program for FCFS (non pre-emptive) to find turnaround time and waiting time. 2. Write a program for SJF (non pre-emptive) to find turnaround time and waiting time. |
| Apply and identify efficient page replacement algorithms. | <ol style="list-style-type: none"> 1. Write a program to demonstrate FIFO. 2. Write a program to demonstrate LRU. |
| Identify various disk scheduling algorithms on the basis of their total seek time. | <ol style="list-style-type: none"> 1. Write a program to simulate the working of FCFS. 2. Write a program to simulate the working of SCAN. |
| Identify and explain resource management by operating system. | <ol style="list-style-type: none"> 1. Write a program to avoid deadlock using Banker's algorithm. 2. Write a program to demonstrate producer consumer problem using semaphores. 3. Write a program to simulate working of Dining Philosopher's problem. |
| Explain different file management strategies. | <ol style="list-style-type: none"> 1. Write a program to simulate sequential file allocation strategy. 2. Write a program to simulate indexed file allocation strategy 3. Write a program to design primitive kernel. |




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Relation between Lab Outcome and Theory Course Outcome

| THEORY COURSE OUTCOMES | LAB OUTCOMES |
|--|---|
| 1. Explain the role of operating system and its management policies and algorithm. | 1. Apply and analyze various scheduling criteria. |
| 2. Identify the process management policies and analyze and compare scheduling of processes by CPU along with memory management. | 2. Apply and identify efficient page replacement algorithms. |
| 3. Identify process synchronization and coordination handled by operating system. | 3. Identify various disk scheduling algorithms on the basis of their total seek time. |
| 4. Identify the I/O management and analyze and compare CPU concurrent processes problem. | 4. Identify and explain resource management by operating system. |
| 5. Summarize the introduction to network, multi-processor and distributed OS, and Elaborate on case studies for the same. | 5. Explain different file management strategies. |





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Course Articulation Matrix

| Course Outcome | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO1 0 | PO1 1 | PO1 2 | PSO 1 | PSO 2 | PSO 3 |
|-----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| CO ₂₄₅ ₁ | 3 | 2 | 3 | | | | | | | | | | 3 | 3 | |
| CO ₂₄₅ ₂ | 3 | 2 | | 3 | | | | | | | | | 3 | 3 | |
| CO ₂₄₅ ₃ | 3 | 3 | | 2 | | | | | 3 | | | | 3 | 3 | 3 |
| CO ₂₄₅ ₄ | 3 | 2 | | | | | | | | | | | 3 | 2 | |
| CO ₂₄₅ ₅ | 3 | 2 | | 2 | | | | | | | 2 | 1 | 3 | 2 | |
| CO₂₄₅ (AVG) | 2 | 2 | 1 | 2 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 1 | 3 | 1 | 2 |

Mapping of Course outcomes to Program outcomes

EVALUATION COMPONENTS / SCHEME

Tools can be divided into two categories

- Direct Assessment
- Indirect Assessment

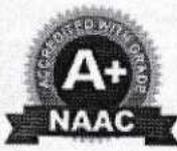
1. Direct Assessment

The UG program of the computer science and engineering department is credit based with continuous evaluation system. Evaluation is conducted by the subject teacher throughout the semester. Each subject contains four main components for evaluation:

- **Teacher Assessment:** In this component, Assignments, tutorials, problem solving, group discussions, quiz, etc. are given and evaluated regularly.
- **Mid Semester Examination:** Two Mid semester examinations are conducted within semester after the start of Academic Session.
- **End semester Examination:** End semester examination is conducted at the end of semester. Complete syllabus is covered in this examination. Major Weight age of marks is given to this component.
- **Practical Courses:** In these courses, continuous evaluation is done through viva-voce, Lab report submission and laboratory quiz.



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The weight age of components are given in the following table:

| Subject Type | Assessment Components | Weight age (%) |
|-------------------------|------------------------------|----------------|
| Theory | Teacher Assessment | 10 % |
| | Mid Semester Examination | 20 % |
| | End Semester Examination | 70 % |
| Lab / Project / Seminar | Lab Work and Sessional | 20 % |
| | Lab Assignment/ MST and Quiz | 20 % |
| | End Semester Examination | 60 % |

2. Indirect Assessment

Course Outcome Feedback: After the end of every semester, feedback is taken for individual subject.

ASSESSMENT TOOLS OF COURSE OUTCOMES

| Mode of Assessment | Assessment Tool | Description | Evaluation of Course Outcomes | Frequency of Assessment |
|--------------------|--|---|---|-------------------------|
| Direct | Teacher Assessment (Assignment and Quiz) | Two assignment and Two Quiz are given for each courses for continuous assessment | The Question in the internal examination and assignment /quiz is mapped against COs of respective course. The question for two internal examination and assignment and quiz are framed in such a way to cover all course outcomes. The final attainment for each Cos under direct assessment is calculated by taking average. | Continuous |
| Direct | Mid Semester Examination | Two Mid semester examinations are conducted within semester. Each MST Cover 2.5 Units | | Twice in a Semester |
| Direct | Lab Work and Sessional | Continuous evaluation is done through viva-voce, Lab report submission and laboratory quiz. | | Continuous |
| Direct | Lab Assignment / MST and Quiz | | | Twice in a Semester |
| Indirect | Course Outcome Feedback | After the end of every semester, feedback is taken for individual subject. | | |



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EVALUATION SCHEME

Rajiv Gandhi Pradyotiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

V Semester Bachelor of Technology (B.Tech.) [Information Technology] [Valid July 2020] Revised

| S.No. | Subject Code | Credit | Subject Name | Minimum Marks Obtained | | | | Total Marks | Contact Hours per week | | | Total Credit Hrs | | |
|--------------|--------------------|----------------|---|---|----------------|-----------------|------------|-------------|------------------------|-----------|----------|------------------|-------------------------------|---|
| | | | | Theory | | Practical | | | L | P | T | | | |
| | | | | End Sem. | Mid Sem. Exam. | Quiz Assignment | End Sem. | | | | | | Term work Lab work & Systemal | |
| 1. | IT 501 | 04 | Operating System | 70 | 20 | 10 | 20 | 20 | 150 | 3 | - | 2 | 4 | |
| 2. | IT 502 | 04 | Computer Network | 70 | 20 | 10 | 20 | 20 | 150 | 3 | - | 2 | 4 | |
| 3. | IT 503 | 04 | Departmental Elective-I | 70 | 20 | 10 | - | - | 100 | 2 | 1 | - | 3 | |
| 4. | IT 504 | 04 | Open Elective-I | 70 | 20 | 10 | - | - | 100 | 2 | - | - | 3 | |
| 5. | IT 505 | 0 Lab | Advanced Java Lab | - | - | - | 30 | 20 | 30 | - | 1 | 2 | 2 | |
| 6. | IT 506 | 0 Elective Lab | Soft Skills and Interpersonal Communication | - | - | - | 30 | 20 | 30 | - | 1 | 2 | 2 | |
| 7. | IT 507 | 0 Elective | Evaluation of Internship-II | - | - | - | - | - | 100 | - | - | - | 3 | |
| 8. | IT 508 | 0 Elective | Internship-IB | To be completed anytime during Fifth/Sixth semester. Its evaluation credit to be added in Seventh Semester. | | | | | | | | | | |
| 9. | IT 509 | 0 Project | Minor Project I Semester | - | - | - | - | 50 | 50 | - | - | - | 4 | 2 |
| 10. | Additional Credits | | Additional credits can be earned through successful completion of credit level UGPA's Courses available on 30-01-2024 program (2018/19) at respective U.S. level. | | | | | | | | | | | |
| Total | | | | 700 | 200 | 100 | 120 | 230 | 700 | 12 | 3 | 18 | 24 | |

Departmental Elective-I
 IT 503 (A) Theory of Computation
 IT 503 (B) Microprocessor & Interfacing
 IT 503 (C) Object Oriented Analysis and Design

Open Elective-I
 IT 504 (A) Artificial Intelligence
 IT 504 (B) E-Commerce & Governance
 IT 504 (C) Java Programming

| | | |
|-----------|-----------|-----------|
| 1st Floor | 1st Floor | 2nd Floor |
| 1.000 | 1.000 | 1.000 |

Time Table

INDORE INSTITUTE OF SCIENCE & TECHNOLOGY
 DEPARTMENT OF INFORMATION TECHNOLOGY
 TIME TABLE
 SESSION: July - Dec 2023

| CLASS ROOM NO. 23 Class - IT III Year | Class Coordinator - Ms. Lalita Barmahal | | | | EFFECTIVE FROM 07-09-2023 | | | |
|--|---|---------------------|---------------------|---------------------|---------------------------|-------------------|-------------------|-------------------|
| | 11:30 AM - 11:45 AM | 11:50 AM - 12:05 PM | 12:05 PM - 12:20 PM | 12:20 PM - 12:35 PM | 1:30 PM - 2:00 PM | 2:45 PM - 3:00 PM | 3:00 PM - 3:30 PM | 3:30 PM - 4:00 PM |
| MONDAY | YDC | CS | Advanced Java | Advanced Java | LUNCH | YDC | CS | Java |
| TUESDAY | CS | Advanced Java | Advanced Java | Advanced Java | | CS | Advanced Java | Java |
| WEDNESDAY | CS | Advanced Java | Advanced Java | Advanced Java | | CS | Advanced Java | Java |
| THURSDAY | YDC | CS | Advanced Java | Advanced Java | | YDC | CS | Java |
| FRIDAY | YDC | CS | Advanced Java | Advanced Java | | YDC | CS | Java |
| SATURDAY | YDC | CS | Advanced Java | Advanced Java | | YDC | CS | Java |
| SUNDAY | YDC | CS | Advanced Java | Advanced Java | | YDC | CS | Java |



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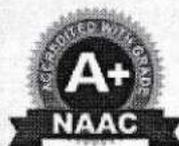
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| COURSE PLAN | 2023-24 |
| | Branch IT Year III Sem V |

COURSE PLAN / LESSON PLAN

| S.No | Topics to be covered | Time | Ref | Teaching Aids |
|------|--|--------|-----|---------------|
| 1. | UNIT 1. Introduction to Operating Systems | 50 min | 1,5 | BB/PPT |
| 2. | Different Types of OS | 50 min | 1,5 | BB/PPT |
| 3. | Characteristics and features of an O/S | 50 min | 1,5 | BB/PPT |
| 4. | Operating Systems Services: Utility Programs | 50 min | 1,5 | BB/PPT |
| 5. | System Calls. | 50 min | 1,5 | BB/PPT |
| 6. | UNIT 3. CPU Scheduling: Process Concept, Scheduling Concepts, Types of Schedulers | 50 min | 1,5 | BB/PPT |
| 7. | Process State Diagram, Scheduling Algorithms, | 50 min | 1,5 | BB/PPT |
| 8. | Algorithms Evaluation | 50 min | 1,5 | BB/PPT |
| 9. | System calls for Process Management | 50 min | 1,5 | BB/PPT |
| 10. | Multiple Processor Scheduling: Concept of Threads | 50 min | 1,5 | BB/PPT |
| 11. | Memory Management Techniques – Partitioning, Swapping | 50 min | 1,5 | BB/PPT |
| 12. | Liner, loader, Segmentation, | 50 min | 1,5 | BB/PPT |
| 13. | Paging, | 50 min | 1,5 | BB/PPT |
| 14. | Paged Segmentation | 50 min | 1,5 | BB/PPT |
| 15. | Comparison of Overlay | 50 min | 1,5 | BB/PPT |
| 16. | Dynamic Linking and Loading | 50 min | 1,5 | BB/PPT |
| 17. | Virtual Memory Concept | 50 min | 1,5 | BB/PPT |
| 18. | Implementation by Demand Paging etc. | 50 min | 1,5 | BB/PPT |
| 19. | UNIT 4. Principles and Programming, Input/Output Problems | 50 min | 1,5 | BB/PPT |
| 20. | Asynchronous Operations, Speed gap Format conversion | 50 min | 1,5 | BB/PPT |
| 21. | I/O Interfaces, Programme Controlled I/O | 50 min | 1,5 | BB/PPT |
| 22. | Interrupt Driven I/O, Concurrent I/O | 50 min | 1,5 | BB/PPT |
| 23. | Real and Virtual Concurrency, Mutual Exclusion, Synchronization | 50 min | 1,5 | BB/PPT |
| 24. | Inter- Process Communication | 50 min | 1,5 | BB/PPT |
| 25. | Critical Section Problem | 50 min | 1,5 | BB/PPT |
| 26. | Semaphores – Binary and Counting Semaphores | 50 min | 1,5 | BB/PPT |
| 27. | WAIT & SIGNAL Operations and their implementation | 50 min | 1,5 | BB/PPT |
| 28. | Deadlocks: Deadlock Problems | 50 min | 1,5 | BB/PPT |
| 29. | Characterization, Prevention | 50 min | 2,3 | BB/PPT |
| 30. | Avoidance, Recovery | 50 min | 2,3 | BB/PPT |
| 31. | UNIT 2. File Systems: File Concept, User's and System Programmer's view of File System | 50 min | 2,3 | BB/PPT |



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| 32. | Disk Organization, Tape Organization | 50 min | 2,3 | BB/PPT |
| 33. | Different Modules of a File System, Disk Space | 50 min | 2,3 | BB/PPT |
| 34. | Allocation Methods – Contiguous, Linked, Indexed | 50 min | 2,3 | BB/PPT |
| 35. | Directory Structures, File Protection | 50 min | 2,3 | BB/PPT |
| 36. | System Calls for File Management | 50 min | 2,3 | BB/PPT |
| 37. | Disk Scheduling Algorithms | 50 min | 2,3 | BB/PPT |
| 38. | UNIT 5. Introduction to Network | 50 min | 2,3 | BB/PPT |
| 39. | Distributed and Multiprocessor Operating Systems | 50 min | 2,3 | BB/PPT |
| 40. | Case Studies: Unix/Linux, WINDOWS, and other Contemporary Operating Systems | 50 min | 2,3 | BB/PPT |

TEXT BOOKS RECOMMENDED:

1. Silberschatz, Galvin, Gagne, "Operating System Concepts", Wiley, 9/E
2. William Stallings, "Operating Systems", Pearson Education

REFERENCE BOOKS:

1. Andrew S. Tanenbaum, "Modern Operating Systems", 3/e, Prentice Hall
2. Maurice J. Bach, "The Design of Unix Operating System", Prentice Hall of India,
3. Bovet & Cesati, "Understanding the Linux Kernel", O'Reily, 2/E.



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COMPREHENSIVE RESULT ANALYSIS

Continuous assessment – Assignment

Continuous assessment – Quiz

Continuous assessment – Midterm 1

Continuous assessment – Midterm 2

Continuous assessment – Lab Quiz

Continuous assessment – Lab Files

Continuous assessment – Lab Viva

Continuous assessment – Lab MST

Continuous assessment – Internal Marks

Continuous assessment – University Result



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Approved by AICTE, New Delhi, Affiliated to RGPV, Bhopal, Recognized by UGC under Section 2(f)
2023-2024

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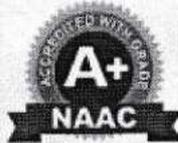
- Assignment Paper & Solution
- Sample of Assignment copy
- Mid Sem 1 & 2 Paper & Solution
- Sample of Mid Sem Copy
- Theory & Lab Quiz Paper & Solution
- Quiz paper Submit by Students
- Internal Viva Marks
- Tutorial Attendance
- Tutorial Sheet with Solution
- Attendance Register
- Remedial Class Attendance
- Notes
- Lab Manual
- University result analysis
- University Question Papers



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Assignment Paper & Solution

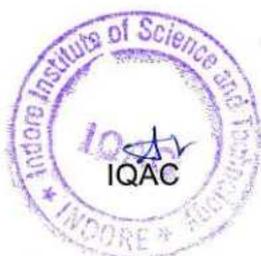
Question: Difference between network OS and distributed OS. *

Answer:

The difference Between Network Operating System and Distributed Operating System are given below:

| S.N | Network Operating System | Distributed Operating System |
|-----|--|--|
| 1. | Network Operating System's main objective is to provide the local services to remote client. | Distributed Operating System's main objective is to manage the hardware resources. |
| 2. | In Network Operating System, Communication takes place on the basis of files. | In Distributed Operating System, Communication takes place on the basis of messages and shared memory. |
| 3. | Network Operating System is more scalable than Distributed Operating System. | Distributed Operating System is less scalable than Network Operating System. |
| 4. | In Network Operating System, fault tolerance is less. | While in Distributed Operating System, fault tolerance is high. |
| 5. | Rate of autonomy in Network Operating System is high. | While The rate of autonomy in Distributed Operating System is less. |
| 6. | Ease of implementation in Network Operating System is also high. | While in Distributed Operating System Ease of implementation is less. |
| 7. | In Network Operating System, All nodes can have different operating system. | While in Distributed Operating System, All nodes have same operating system. |

Question: Distinguish program and process?



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Answer: 1. Program :

When we execute a program that was just compiled, the OS will generate a process to execute the program. Execution of the program starts via GUI mouse clicks, command line entry of its name, etc. A program is a passive entity as it resides in the secondary memory, such as the contents of a file stored on disk. One program can have several processes.

2. Process :

The term process (Job) refers to program code that has been loaded into a computer's memory so that it can be executed by the central processing unit (CPU). A process can be described as an instance of a program running on a computer or as an entity that can be assigned to and executed on a processor. A program becomes a process when loaded into memory and thus is an active entity.

Difference between Program and Process :

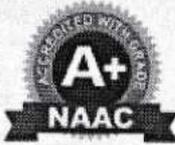
| Sr.No | Program | Process |
|-------|---|--|
| 1. | Program contains a set of instructions designed to complete a specific task. | Process is an instance of an executing program. |
| 2. | Program is a passive entity as it resides in the secondary memory. | Process is a active entity as it is created during execution and loaded into the main memory. |
| 3. | Program exists at a single place and continues to exist until it is deleted. | Process exists for a limited span of time as it gets terminated after the completion of task. |
| 4. | Program is a static entity. | Process is a dynamic entity. |
| 5. | Program does not have any resource requirement, it only requires memory space for storing the instructions. | Process has a high resource requirement, it needs resources like CPU, memory address, I/O during its lifetime. |
| 6. | Program does not have any control block. | Process has its own control block called Process Control Block. |



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Question: Explain multiprogramming and multiprocessing OS.

Answer: Multiprogramming is interleaved execution of two or more process by a single CPU computer system. Whereas, Multiprocessing is the simultaneous execution of two or more process by a computer having more than one CPU.

Multiprogramming occurs by switching from one process to others (a phenomenon called context switching) whereas, Multiprocessing occurs by means of parallel processing.

Multiprogramming includes executing a portion of the program, then a segment of another in the consecutive time period. But in Multiprocessing it is possible for a system to simultaneously work on several program segments of one or more program.

In Multiprogramming context switching takes place but multiprocessing permits parallel processing.

Question: Write the difference between Job and CPU scheduling?

Answer: A process is a program in execution. There are multiple processes running parallel in a computer system. It is important to maximize CPU utilization. The operating system can make the computer productive by switching the CPU among processes. For maximum CPU utilization, it is important to run some process every time. The processes that should execute are placed in the ready queue. The job scheduling is the mechanism to select which process has to be brought into the ready queue. The CPU scheduling is the mechanism to select which process has to be executed next and allocates the CPU to that process. That is the key difference between Job Scheduling and CPU Scheduling. The job scheduling is known as the long-term scheduling while the CPU scheduling is known as the short-term scheduling. The job scheduling is done by the job scheduler or the long-term scheduler. The CPU scheduling is done by the CPU scheduler or the short-term scheduler.

Question: What is the difference between Job and Process?

Answer: A process is any running program with its own address space.

A job is a concept used by the shell - any program you interactively start that doesn't detach (ie, not a daemon) is a job. If you're running an interactive program, you can press CtrlZ to suspend it. Then you can start it back in the foreground (using fg) or in the background (using bg).

While the program is suspended or running in the background, you can start another program - you would then have two jobs running. You can also start a program running in the background by appending an "&" like this: program &. That program would become a background job. To list all the jobs you are running, you can use jobs.



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Question: Given five memory partitions of 100Kb, 500Kb, 200Kb, 300Kb, 600Kb (in order), how would the first-fit, best-fit, and worst-fit algorithms place processes of 212 Kb, 417 Kb, 112 Kb, and 426 Kb (in order)? Which algorithm makes the most efficient use of memory and why?

Answer:

First fit

212 K is put in 500 K partition.

417 K is put in 600 K partition.

112 K is put in 288 K partition. (New partition 288 K = 500 K - 212 K)

426 K must wait.

Best-fit

212 K is put in 300 K partition.

417 K is put in 500 K partition.

112 K is put in 200 K partition.

426 K is put in 600 K partition.

Worst-fit

212 K is put in 600 K partition.

417 K is put in 500 K partition.

112 K is put in 388 K partition. (600 K - 212 K)

426 K must wait.

In this example Best-fit is the best solution.

Question: Suppose a disk has 201 cylinders, numbered from 0-200. At sometime the disk arm is at cylinder 100, and there is a queue of disk access requests for cylinders 30, 85, 90, 100, 105, 110, 135 and 145. If shortest seek time first (SSTF) and SCAN are being used for scheduling the disk access. Then find the number of requests if cylinder 90 is requested for servicing in both cases. And also compare the results to conclude which of them is better.

Answer:

Explanation: In Shortest-Seek-First algorithm, request closest to the current position of the disk arm and head is handled first.



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In this question, the arm is currently at cylinder number 100. Now the requests come in the queue order for cylinder numbers 30, 85, 90, 100, 105, 110, 135 and 145.

The disk will service that request first whose cylinder number is closest to its arm. Hence 1st serviced request is for cylinder no 100 (as the arm is itself pointing to it), then 105, then 110, and then the arm comes to service request for cylinder 90. Hence before servicing request for cylinder 90, the disk would had serviced 3 requests.



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Mid Sem Papers



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
DEPARTMENT OF INFORMATION TECHNOLOGY
MID SEMESTER TEST-I (SEPT 2023)

SUBJECT NAME: - OPERATING SYSTEM **SUBJECT CODE: IT-501**
SEMESTER: V **BRANCH: IT** **ENROLLMENT NO: _____**
MAX MARKS: 20 **TIME: 2 Hrs.**

| QN | Questions | Mark | CO | BL | PO | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------|------------|----|---------|------------|--------------|------------|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|----|---|---|
| PART - A (ATTEMPT ANY TWO QUESTIONS) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.1 | How Operating System work like interface between user and hardware? Justify it. And What are the various functionalities of Operating System? | 4 | CO-1 | L2 | 1,2,3,7 | | | | | | | | | | | | | | | | | | | | | |
| Q.2 | Explain the functionalities of system call in operating System. | 4 | CO-1 | L1 | 1,2,3,7 | | | | | | | | | | | | | | | | | | | | | |
| Q.3 | What do you mean by PCB? Where is it used? What are its contents? | 4 | CO-2 | L1 | 1,2,3,7 | | | | | | | | | | | | | | | | | | | | | |
| PART - B (ATTEMPT ANY TWO QUESTIONS) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.4 | Discuss the types of Operating system. | 4 | CO-1 | L2 | 1,2,3,7 | | | | | | | | | | | | | | | | | | | | | |
| Q.5 | Compare long term and short-term scheduler. | 4 | CO-2 | L3 | 1,2,3,7 | | | | | | | | | | | | | | | | | | | | | |
| Q.6 | Illustrate the concept of Context Switching. | 4 | CO-2 | L1 | 1,2,3,7 | | | | | | | | | | | | | | | | | | | | | |
| PART - C (ATTEMPT ANY ONE QUESTION) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.7 | In the given case, there are six jobs P1, P2, P3, P4, P5 and P6. Their arrival time and burst time are given below in the table. | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="width: 100%;"> <thead> <tr> <th>Process ID</th> <th>Arrival Time</th> <th>Burst Time</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>0</td> <td>8</td> </tr> <tr> <td>P2</td> <td>1</td> <td>4</td> </tr> <tr> <td>P3</td> <td>2</td> <td>2</td> </tr> <tr> <td>P4</td> <td>3</td> <td>1</td> </tr> <tr> <td>P5</td> <td>4</td> <td>3</td> </tr> <tr> <td>P6</td> <td>5</td> <td>2</td> </tr> </tbody> </table> | | | | | Process ID | Arrival Time | Burst Time | P1 | 0 | 8 | P2 | 1 | 4 | P3 | 2 | 2 | P4 | 3 | 1 | P5 | 4 | 3 | P6 | 5 | 2 |
| | Process ID | Arrival Time | Burst Time | | | | | | | | | | | | | | | | | | | | | | | |
| | P1 | 0 | 8 | | | | | | | | | | | | | | | | | | | | | | | |
| | P2 | 1 | 4 | | | | | | | | | | | | | | | | | | | | | | | |
| | P3 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| | P4 | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| P5 | 4 | 3 | | | | | | | | | | | | | | | | | | | | | | | | |
| P6 | 5 | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| Apply the Shortest Remaining Time First (SRTF) Scheduling Algorithm on the given data and prepare Gantt Chart. Find out the completion time, turnaround time, waiting time, response time for each of the processes. Also calculate Average Turnaround and Average Waiting time. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Q.8 | Draw and explain process state diagram of the process. | 4 | CO-2 | L4 | 1,2,3,7 | | | | | | | | | | | | | | | | | | | | | |



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| | | Branch IT Year III Sem V |



INDORE INSTITUTE OF SCIENCE & TECHNOLOGY, INDORE
DEPARTMENT OF INFORMATION TECHNOLOGY
MID SEMESTER TEST-II NOVEMBER 2023
PART II

SUBJECT NAME: OS
SEMESTER:
MAX MARKS: 20

SUBJECT CODE: IT-501
ENROLLMENT NO.:

| Q.No. | Questions | Marks | CO | BL | PO |
|---|---|-------|-----|----|---------|
| PART - A (ATTEMPT ANY ONE QUESTIONS) | | | | | |
| 1. | Demonstrate the concept of Paging. How the logical address are converted into physical address. | | | | |
| 2. | What do you mean by Semaphore? Explain its uses and its implementation. | | | | |
| PART - B (ATTEMPT ANY TWO QUESTIONS) | | | | | |
| 3. | Define the concept of Virtual Memory. How the page fault occurs? | 4 | CO4 | L2 | 1,2,3,7 |
| 4. | Consider the main memory with capacity of 3 frames. Assume that pages of a process are referenced in the order as given below: 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3. Which one is better FIFO or LRU and why? | 4 | CO4 | L4 | 1,2,3 |
| 5. | What is meant by Thrashing? Explain various causes of thrashing. | 4 | CO4 | L1 | 1,2,3,7 |
| PART - C (ATTEMPT ANY TWO QUESTION) | | | | | |
| 6. | Consider a disk with 200 tracks and the queue has random requests from different processes in the order: 5, 56, 39, 18, 90, 160, 150, 38, 184 Initially arm is at 100. Find the Average Seek length using FIFO, SSTF, SCAN and C-SCAN algorithm. | 5 | CO5 | L4 | 1,2,3 |
| 7. | Define the concept of File Allocation method. | 4 | CO5 | L1 | 1,2,3,7 |
| 8. | Explain Distributed system. | 4 | CO5 | L1 | 1,2,3,7 |



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| | | Branch IT Year III Sem V |

University Question Papers

Roll No.

IT-501-CBGS
B.Tech., V Semester
 Examination, December 2020
Choice Based Grading System (CBGS)
Operating system
 Time : Three Hours
 Maximum Marks : 70

Note: i) Attempt any Five questions.
 किसी पाँच प्रश्नों को हल कीजिए।
 ii) All questions carry equal marks.
 सभी प्रश्नों के समान अंक हैं।
 iii) All parts of each question to be attempted at one place.
 प्रश्नों के सभी भागों को एक ही स्थान पर कीजिए।
 iv) In case of any doubt or dispute the English version question should be treated as final.
 किसी भी प्रकार के संदेह अथवा विवाद की स्थिति में अंग्रेजी भाग के प्रश्न को अंतिम माना जाएगा।

1. a) What are the different functions of an Operating System? Explain in brief. 7
 ऑपरेटिंग सिस्टम के विभिन्न कार्य क्या हैं? संक्षिप्त में समझाइए।
 b) Describe Architecture of operating system. 7
 ऑपरेटिंग सिस्टम का आर्किटेक्चर समझाइए।
2. a) Explain critical section problem with suitable example. 7
 क्रिटिकल सेक्शन समस्या को उपयुक्त उदाहरण सहित समझाइए।
 b) Discuss the classical problems of Synchronization. 7
 संसमन्वयन की क्लासिकल समस्या का वर्णन करें।

IT-501-CBGS P.T.O.

3. a) What do you mean by Deadlock? Explain various methods of handling deadlock. 7
 डेडलॉक से आप क्या समझते हैं। डेडलॉक संभालने के विभिन्न तरीकों को समझाइए।
 b) Describe process, states and transition. 7
 प्रोसेस, स्टेट्स एवं ट्रांजिशन समझाइए।
4. a) What is virtual memory? Discuss the benefits of virtual memory techniques. 7
 आभासी मेमोरी क्या है? आभासी मेमोरी तकनीकों के फायदे बताएं।
 b) Explain Paging Memory Management in detail. 7
 पेज मेमोरी प्रबंधन को विस्तार से समझाइए।
5. a) What do you mean by Distributed file systems? Explain its properties. 7
 वितरित फाइल सिस्टम से आप क्या समझते हैं? इसके विशेषताओं को समझाइए।
 b) Explain the performance Evaluation Techniques in Distributed file systems. 7
 वितरित फाइल सिस्टम में प्रदर्शन आकलन तकनीकों को समझाइए।
6. a) Define Monitor Program? Explain how it overcomes the Drawback of Semaphores. 7
 मॉनिटर प्रोग्राम को परिभाषित कीजिए। यह सेमाफोर की कमियों को कैसे दूर करता है? समझाइए।
 b) What is Multiprocessor operating system? Explain its types. 7
 बहुप्रोसेसर ऑपरेटिंग सिस्टम क्या है? इसके प्रकारों को समझाइए।



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| | Branch IT Year III Sem V |

Roll No
IT-501 (GS)
B.Tech., V Semester
Examination, November 2022
Grading System (GS)
Operating System
Time : Three Hours
Maximum Marks : 70

Note: a) Attempt any five questions.
b) All questions carry equal marks.
c) In case of any doubt or dispute the English version question should be treated as final.

1. Explain how protection is provided for the hardware resources by the operating system?
2. Suppose that a disk drive has 1000 cylinders numbered 0 to 4999. The drive is currently serving a request at cylinder 143, and the previous request was at cylinder 125. The queue of pending requests in the FIFO order is 86, 1470, 913, 1774, 948, 1509, 1022, 1750, 130 starting from the current head position, what is the total distance (in cylinders) that the disk arm moves to satisfy all the pending requests, for each of the following disk scheduling algorithms?

3. a) Explain why wait and signal operations on semaphores need to be atomic?
b) Show how to implement the wait() and signal() semaphore operations in multiprocessor environments using the TestandSet() instruction. The solution should exhibit minimal busy waiting. Develop pseudo code for implementing the operations.

4. a) What is the difference between local and global page allocation? What are their respective advantages and disadvantages?
b) Compare the segmented paging scheme with the hashed page table scheme for handling large address spaces. Under what circumstances is one scheme preferable over the other?

| Process | 6 | 2 | 0 |
|---------|---|---|---|
| P1 | 6 | 2 | 1 |
| P2 | 2 | 4 | 1 |
| P3 | 1 | 1 | 2 |
| P4 | 1 | 3 | 2 |
| P5 | 2 | | |

3. a) Consider the scenario. At time t_1 Process P1 requests for a resource X. At time t_2 Process P2 requests for a resource Y. Both the resources are available and they are allocated to the requesting process. At time t_3 , where $t_1 < t_2 < t_3$, both the processes are still holding the resources, however process P1 request for Y which is held by P2, process P2 request for X held by P1. Will there be a deadlock? If there is a deadlock discuss the four necessary conditions for deadlock, else justify there is no deadlock.

4. a) What is the difference between local and global page allocation? What are their respective advantages and disadvantages?
b) Compare the segmented paging scheme with the hashed page table scheme for handling large address spaces. Under what circumstances is one scheme preferable over the other?

Give a Gantt chart illustrating the execution of these processes using FCFS, Round Robin (quantum = 1), and Priority (Preemptive and Non-preemptive). Calculate the average waiting time and average turnaround time for each of the above scheduling algorithms. Which algorithm will give the minimum average waiting time? Discuss.

4. a) What is the difference between local and global page allocation? What are their respective advantages and disadvantages?
b) Compare the segmented paging scheme with the hashed page table scheme for handling large address spaces. Under what circumstances is one scheme preferable over the other?



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Table with columns for COURSE PLAN and 2023-24 Branch IT Year III Sem V

Consider the following page reference string... How many page faults would occur for the following page replacement algorithm... LRU replacement, FIFO replacement, Optimal replacement

Consider a paging system with the page table stored in memory... On a system with paging, a process cannot access memory that it does not own... Which file-allocation method would you use for a system whose main task is database management?



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Table with COURSE PLAN and Branch IT Year III Sem V

When a file is removed, the blocks it occupies are simply placed back onto the free list. Can you see any problems with this? If so, how would you overcome them and what problems, if any, would now exist and how would you resolve these?
a) Explain the indexed and linked file allocation methods. Discuss the advantages and disadvantages in those methods.
b) Give an example for an application that could benefit from operating system support for random access to indexed files.
c) Some file system allows disk storage to be allocated at different levels of granularity. For instance, a file system could allocate 4KB of disk space as a single 4KB block or as eight 512 byte blocks. How could we take advantage of the flexibility to improve performance? What modifications would have to be made to the free-space management scheme in order to support this feature?

How long does it take to load 64 Kbyte program from a disk whose average seek time is 10msec, rotation time is 20msec and track holds 32 Kbytes. Calculate time when page size is 2 Kbyte and also when page size is 4 Kbyte. Assume that pages are spread around the disk and no two pages are on the same cylinder.
Given a disk with 200 tracks, where track requests are received in the following order: 209, 2, 18, 170, 13, 123, 11, 62, 14, 124, 74, 144, 199, 16, 4, 152, 177, 178, 179, 180, 181, 182, 183, 184. The starting position for the arm is track 100. Calculate the number of tracks crossed when the following algorithms are used: i) First Come First Serve, ii) Shortest Seek First, iii) The elevator algorithm starting in the direction arm is moving.

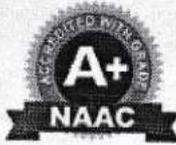
T:50 (GS)

PTO

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Total No. of Questions : 8/ Total No. of Printed Pages : 7

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Roll No.

IT-501 (GS)
B.Tech., V Semester
 Examination, November 2023
Grading System (GS)
Operating System
 Time : Three Hours

Maximum Marks : 70

- Note:**
- i) Attempt any five questions. किम्हीं पाँच प्रश्नों को हल कीजिए।
 - ii) All questions carry equal marks. सभी प्रश्नों के समान अंक हैं।
 - iii) In case of any doubt or dispute the English version question should be treated as final. किन्हीं भी प्रश्नों के संदेह अथवा विवाद की स्थिति में अंग्रेजी भाषा के प्रश्न को अंतिम माना जायेगा।

1. a) Mention the difference(s) between single-processor and multi-processor systems? What are the major advantages of multi-processor? 6
 सिंगल-प्रोसेसर और मल्टी-प्रोसेसर सिस्टम के बीच अंतर बताए। मल्टी-प्रोसेसर के प्रमुख लाभ क्या हैं?
- b) Explain the operating system functions that are specific to (i) users and (ii) computing systems. Clearly explain the significance of each functionality with respect to the user/system itself. 8
 ऑपरेटिंग सिस्टम फंक्शन को समझाए जो (i) उपयोगकर्ताओं और (ii) कंप्यूटिंग सिस्टम के लिए विशिष्ट हैं। उपयोगकर्ता/सिस्टम के संबंध में प्रत्येक कार्यक्षमता के महत्व को स्पष्ट रूप से समझाए।

IT-501 (GS)

PT/3

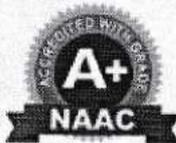
2. a) Given n CPUs, what is the maximum no. of processes that can be in ready state? Does the size of the ready queue depends on the number of CPUs available in a system? n CPUs दिए जाने पर, तैयार अवस्था में होने वाली प्रक्रियाओं की अधिकतम संख्या क्या हो सकती है? क्या तैयार queue का आकार किसी सिस्टम में उपलब्ध CPU की संख्या पर निर्भर करता है? 6
- b) You are given an arbitrary set of CPU bound processes with unequal CPU burst lengths that are submitted at the same time to a computer system. In this scenario, which process scheduling algorithm would minimize the average waiting time in the ready queue? Justify your answer in terms of average waiting time and turn-around time for choosing the right scheduling algorithm. 8
 आपको असमान CPU बस्ट लंबाई के साथ CPU बाउंड प्रक्रियाओं का एक मनमाना सेट दिया जाता है जो एक ही समय में कंप्यूटर सिस्टम पर सबमिट किया जाता है। इस परिदृश्य में, कौन सी प्रक्रिया शेड्यूलिंग एल्गोरिथम तैयार queue में औसत प्रतीक्षा समय को कम करेगी? सही शेड्यूलिंग एल्गोरिथम चुनने के लिए औसत प्रतीक्षा समय टर्न-अराउंड समय के संदर्भ में अपने उत्तर को उचित रखें।
3. a) What is critical section problem? Mention the conditions that a critical section solution must satisfy. 6
 क्रिटिकल सेक्शन समस्या क्या है? उन शर्तों को चर्चा करें किन्हें एक मल्टीप्रोसेसिंग समाधान को संतुष्ट करना हो।
- b) Given a non-negative counting semaphore S . The operation $P(S)$ decrements S and $V(S)$ increments S . During an execution, 20 $P(S)$ operations and 12 $V(S)$ operations are issued in some order. Find the largest initial value of S for which at least one $P(S)$ operation will remain blocked. 8

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एक ही-नक्कलामा विनती रणधरे S रिया ग्या है। अधरेण P(S) S को घटाता है, और V(S) को बढ़ाता है। एक नियमन के दौरान, 20 P(S) अधरेण और 12 V(S) अधरेण युक्त क्रम में जारी किए जाते हैं। S का सबसे बड़ा प्राथमिक मान प्राप्त करने वाले लिए कम से कम एक P(S) अधरेण अवरोध रहेगा।

consider the given set of processes with length of CPU burst, rival time and priority. You are required to draw the (i) Gantt chart to show the schedule. Also, find out (ii) normalized turn-around time for each process and (iii) average waiting time w the following scheduling algorithms.

14

i) Preemptive priority

ii) Round-Robin with time quantum of 4 units

P1, बस्ट की संख्या, अधरेण समय और प्राथमिकता के साथ प्रक्रियाओं लिए गए संकेत पर विचार करें। संकल्प दिखाने के लिए आपको (a) गैट चार्ट बनाना होगा। इसके अलावा (ii) प्रत्येक प्रक्रिया के लिए सामान्यीकृत ई-अवरोध समय और (iii) विन्डोबिना शेड्यूलिंग एल्गोरिथम के लिए इस प्रतीक समय का पता लगाए।

iii) प्रीथेटिव प्राथमिकता

iv) 4 युनिट पर समय मात्रा के साथ राउंड-रोबिन

| Process | Burst Time | Priority | Arrival Time |
|---------|------------|----------|--------------|
| P1 | 3 | 12 | 4 |
| P2 | 6 | 4 | 3 |
| P3 | 5 | 10 | 0 |
| P4 | 3 | 5 | 2 |
| P5 | 4 | 6 | 1 |

(GS)

PTO

5. a) A system shares 9 tape drives. The current allocation and maximum requirements of tape drives for three processes are shown below. Find if there exist a deadlock in the system. In case the deadlock is not found, write the safe sequence.

एक सिस्टम 9 टेप ड्राइव शेयर करता है। तीन प्रक्रियाओं का लिए टेप ड्राइव का वर्तमान आवंटन और अधिकतम आवश्यकता नीचे दिखाई गई है। पता लगाए कि क्या सिस्टम में कोई गतिरोध मौजूद है। यदि गतिरोध न मिले तो सुरक्षित अनुक्रम लिखिए।

| Process | Current Allocation | Maximum Requirement |
|---------|--------------------|---------------------|
| P1 | 3 | 7 |
| P2 | 1 | 6 |
| P3 | 3 | 5 |

b) Given a graph where a set of vertices $P = \{P1, P2, P3\}$ represents all active processes in the system and $R = \{R1, R2, R3, R4\}$ depicts resource types. The association between elements of P and R is given as $E = \{P1 \rightarrow R1, P2 \rightarrow R3, R1 \rightarrow P2, R2 \rightarrow P1, R3 \rightarrow P3\}$. Considering this situation, draw the resource allocation graph. Also, figure out if there is any cycle that leads to deadlock in the entire system? Would there be a deadlock if a new association $P3 \rightarrow R2$ is added to the given graph?

एक ग्राफ दिया गया है जहाँ तीनों का एक सेट $P = \{P1, P2, P3\}$ सिस्टम में सभी सक्रिय प्रक्रियाओं का प्रतिनिधित्व करता है और $R = \{R1, R2, R3, R4\}$ संसाधन प्रकारों को दर्शाता है। P और R के तत्वों के बीच संबंध $E = \{P1 \rightarrow R1, P2 \rightarrow R3, R1 \rightarrow P2, R2 \rightarrow P1, R3 \rightarrow P3\}$ के रूप में दिया गया है। इस स्थिति को ध्यान में रखते हुए संसाधन आवंटन ग्राफ बनाए। साथ ही, यह भी पता लगाए कि क्या कोई ऐसा चक्र है जो पूरे सिस्टम में गतिरोध पैदा करता है? यदि दिए गए ग्राफ में एक नया संबंध $P3 \rightarrow R2$ जोड़ा जाए तो क्या कोई गतिरोध होगा?

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6. a) What do mean by file attributes and operations? Briefly explain file access methods.
फाइल विशेषताएँ और संयोजन के क्या तात्पर्य है? फाइल एक्सेस विधियों को संक्षेप में समझाएँ। 6
- b) Consider a disk queue with requests for I/O to blocks on cylinders ordered 98, 183, 37, 122, 14, 124, 65, 67. If the disk head is initially at cylinder 53, write the total head movement using FCFS, SSTF, SCAN, and C-SCAN disk scheduling algorithms.
98, 183, 37, 122, 14, 124, 65, 67 अर्थात् बिंदु गए सिलिंडरों पर ब्लॉक के लिए I/O के अनुरोध के साथ डिस्क क्यू में विचार करें। यदि डिस्क हेड प्रारंभ में सिलिंडर 53 पर है। FCFS, SSTF, SCAN और C-SCAN डिस्क शेड्यूलिंग एल्गोरिथम का उपयोग करते हुए कुल हेड मूवमेंट लिखें। 8
7. a) What is the difference between starvation and deadlock? Describe necessary conditions for a deadlock.
Starvation और deadlock के बीच क्या अंतर है? मरिटेज के लिए आवश्यक शर्तें क्या हैं? 6
- b) Consider the following snapshot of a system having four processes (P0 to P3) and three resources (E, F, and G).

| Max Claim | | | |
|-----------|---|---|---|
| | E | F | G |
| P0 | 4 | 3 | 1 |
| P1 | 2 | 1 | 4 |
| P2 | 1 | 3 | 3 |
| P3 | 5 | 4 | 1 |

| Allocation | | | |
|------------|---|---|---|
| | E | F | G |
| P0 | 1 | 0 | 1 |
| P1 | 1 | 1 | 2 |
| P2 | 1 | 0 | 3 |
| P3 | 2 | 0 | 0 |

The availability vector

| E | F | G |
|---|---|---|
| 3 | 1 | 0 |

 is:

- i) Find the need matrix. 2
- ii) Is the system currently in safe or unsafe state? Why? In case it is in safe state give the safe sequence. 6
- IT-501 (GS) PTO

- b) चार प्रक्रियाओं (P0 से P3) और तीन संसाधनों (E, F और G) वाले सिस्टम के निम्नलिखित स्नैपशॉट पर विचार करें।

| Max Claim | | | |
|-----------|---|---|---|
| | E | F | G |
| P0 | 4 | 3 | 1 |
| P1 | 2 | 1 | 4 |
| P2 | 1 | 3 | 3 |
| P3 | 5 | 4 | 1 |

| Allocation | | | |
|------------|---|---|---|
| | E | F | G |
| P0 | 1 | 0 | 1 |
| P1 | 1 | 1 | 2 |
| P2 | 1 | 0 | 3 |
| P3 | 2 | 0 | 0 |

उपलब्ध वेक्टर

| E | F | G |
|---|---|---|
| 3 | 1 | 0 |

 है:

- i) आवश्यकता मैट्रिक्स प्राप्त कीजिए।
- ii) क्या सिस्टम वर्तमान में सुरक्षित या असुरक्षित स्थिति में है? क्यों? यदि यह सुरक्षित स्थिति में है तो सुरक्षित क्रम दें।
8. a) What is optimal page replacement algorithm? Explain the reason for its consideration as the best page replacement? 4
इष्टतम पृष्ठ प्रतिस्थापन एल्गोरिथम क्या है? इसे सर्वोत्तम पृष्ठ प्रतिस्थापन मानने का कारण स्पष्ट करें।
- b) Describe demand paging. Let m and p represent the memory-access time and probability of a page fault, how to calculate the effective access time? 4
डिमांड पेजिंग का वर्णन करें। मान लीजिए कि m और p मेमोरी-एक्सेस समय और पेज गलती की संभावना का प्रतिनिधित्व करते हैं, प्रभावी एक्सेस समय की गणना कैसे करें।

IT-501 (GS)

Contd.



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Quiz paper Submit by Students

Questions Responses 120 Settings Total points

OS Quiz II

B I U OD T

Form description

This form is automatically collecting emails from all respondents. Change settings

In segmentation, each address is specified by _____

- a segment number & offset
- an offset & value
- a value & segment number
- a key & value

The segment base contains the _____

- starting logical address of the process
- starting physical address of the segment in memory
- segment length
- none of the mentioned

The segment limit contains the _____

- starting logical address of the process
- starting physical address of the segment in memory
- segment length
- none of the mentioned



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A set of techniques that allow to execute a program which is not entirely in memory is called *

- demand paging
- virtual memory
- auxiliary memory
- secondary memory

Page fault frequency in an operating system is reduced when the *

- processes tend to the I/O-bound
- size of pages is reduced
- processes tend to be CPU-bound
- locality of reference is applicable to the process

A process that execute only in main memory is referred to as and that allocated in disk is referred to a

- virtual memory, true memory
- virtual memory, real memory
- real memory, virtual memory
- imaginary memory, real memory

A swapper manipulates whereas the pager is concerned with individual of a process.

- the entire process, parts
- all the pages of a process, segments
- the entire process, pages




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A page fault occurs when? *

- a page gives inconsistent data
- a page cannot be accessed due to its absence from memory
- a page is invisible
- all of the mentioned

When a page fault occurs, the state of the interrupted process is _____ *

- disrupted
- invalid
- saved
- none of the mentioned

When a process begins execution with no pages in memory? *

- process execution becomes impossible
- a page fault occurs for every page brought into memory
- process causes system crash
- none of the mentioned

Which of the following page replacement algorithms suffers from Belady's Anomaly? *

- Optimal replacement
- LRU
- FIFO
- Both optimal replacement and FIFO



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A process refers to 5 pages, A, B, C, D, E in the order : A, B, C, D, A, B, E, A, B, C, D, E. If the page replacement algorithm is FIFO, the number of page transfers with an empty internal store of 3 frames is?

- 8
- 10
- 9
- 7

A The aim of creating page replacement algorithms is to _____

- replace pages faster
- increase the page fault rate
- decrease the page fault rate
- to allocate multiple pages to processes

What is the Optimal page – replacement algorithm? *

- Replace the page that has not been used for a long time
- Replace the page that has been used for a long time
- Replace the page that will not be used for a long time
- None of the mentioned

Optimal page – replacement algorithm is difficult to implement, because _____

- it requires a lot of information
- it requires future knowledge of the reference string
- it is too complex
- it is extremely expensive



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Internal Viva Marks

| S.No. | Enrollment No. | Student Name | Mark |
|-------|----------------|--------------------------|------|
| 1 | 0818IT201026 | KHEMCHAND MEHRA | 16 |
| 2 | 0818IT201061 | SOURABH SANKHERE | 12 |
| 3 | 0818IT211001 | AASHI RATHOD | 13 |
| 4 | 0818IT211002 | AASHISH YADAV | 16 |
| 5 | 0818IT211003 | AJAY MEHAR | 17 |
| 6 | 0818IT211004 | AMAN SINGH THAKUR | 14 |
| 7 | 0818IT211005 | AMIT PANCHAL | 17 |
| 8 | 0818IT211006 | ANKIT LOVANSHI | 16 |
| 9 | 0818IT211007 | ANKITA SINGH BAIS | 14 |
| 10 | 0818IT211009 | CHANDA YADAV | 17 |
| 11 | 0818IT211010 | DEVENDRA KUSHWAH | 13 |
| 12 | 0818IT211011 | DEVENDRA MANKAR | 12 |
| 13 | 0818IT211014 | DIVYANSHI RAGHUVANSHI | 12 |
| 14 | 0818IT211015 | FAZLUL KHAN | 10 |
| 15 | 0818IT211016 | HARSH GURJAR | 18 |
| 16 | 0818IT211017 | HIMANK YADAV | 18 |
| 17 | 0818IT211018 | ISHA JATAV | 15 |
| 18 | 0818IT211019 | JANKI JATAV | 14 |
| 19 | 0818IT211020 | JAYESH SHARMA | 18 |
| 20 | 0818IT211021 | KAJAL DHANAWAT | 19 |
| 21 | 0818IT211022 | KAJAL GUPTA | 18 |
| 22 | 0818IT211023 | KAMAL NARAYAN BAJPAI | 19 |
| 23 | 0818IT211024 | KANISHKA DUBEY | 14 |
| 24 | 0818IT211025 | KASHISH RATHORE | 14 |
| 25 | 0818IT211026 | KASHISH RITHE | 15 |
| 26 | 0818IT211027 | KHUSHBOO SONI | 19 |
| 27 | 0818IT211028 | MADHUSUDAN SINGH CHOUHAN | 13 |



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| 28 | 0818T211029 | MAHIRA DHAKAD | 14 |
| 29 | 0818T211031 | MOHAMMAD ANAS KHAN | 12 |
| 30 | 0818T211033 | MOHIT LOHANSI | 13 |
| 31 | 0818T211034 | NANDANI TRIVEDI | 16 |
| 32 | 0818T211035 | NAVEEN KIRAR | 8 |
| 33 | 0818T211036 | NEELESH BHARGAV | 16 |
| 34 | 0818T211037 | NEKITA MALVIYA | 17 |
| 35 | 0818T211038 | NEELINI SHARMA | 12 |
| 36 | 0818T211040 | NISHCHAY TIWARI | 14 |
| 37 | 0818T211041 | NITIN TIWARI | 12 |
| 38 | 0818T211043 | PANKAJ SINGH | 9 |
| 39 | 0818T211045 | PRAKASH | 15 |
| 40 | 0818T211046 | PRATHAM PATIDAR | 17 |
| 41 | 0818T211047 | PREETI SHARMA | 18 |
| 42 | 0818T211048 | RAHUL JADHAW | 17 |
| 43 | 0818T211049 | RAHUL YADAV | 17 |
| 44 | 0818T211050 | RAJVEER SINGH THAKUR | 17 |
| 45 | 0818T211051 | RAVI PARMAR | 15 |
| 46 | 0818T211052 | REENA PATIDAR | 16 |
| 47 | 0818T211053 | RISHKESH HEDAGO | 17 |
| 48 | 0818T211054 | RITIK RAJPUT | 11 |
| 49 | 0818T211055 | RUPANSHU SONI | 19 |
| 50 | 0818T211056 | SANSKAR GOUR | 17 |
| 51 | 0818T211057 | SIDDHARTH GOYAL | 14 |
| 52 | 0818T211058 | SNEHA CHOUDHAN | 18 |
| 53 | 0818T211059 | SUMIRAN BHAWSAR | 15 |
| 54 | 0818T211060 | TANISH BHATI | 16 |
| 55 | 0818T211061 | TANUSHREE MAHAJAN | 16 |
| 56 | 0818T211062 | VEDANSHI MISHRA | 15 |
| 57 | 0818T211063 | VISAY CHOUDHAN | 12 |
| 58 | 0818T211064 | VIKAS JADHAW | 12 |
| 59 | 0818T211065 | VISHAL | 11 |
| 60 | 0818T211066 | VISHAL DEWDA | 11 |
| 61 | 0818T211067 | VISHAL SHARMA | 11 |
| 62 | 0818T211068 | YUKTA KURREJA | 17 |

Tutorial Attendance

Tutorial Sheet with Solution

Attendance Register

Remedial Class Attendance

Notes <https://classroom.google.com/c/NjE3ODI4NTU3MDkz>



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| | | | Branch IT Year III Sem V | | | | |
| 29.00 | OS1IT211062 | VEENANDEE BISHKA | | | PASS | 6.96 | 6.41 |
| 55.00 | OS1IT211063 | VIJAY CHOUDHAN | | | PASS | 6.96 | 6.41 |
| 56.00 | OS1IT211064 | VIKAS JADHAV | | | PASS WITH | 6.71 | 6.88 |
| 57.00 | OS1IT211065 | VISHAL | | | PASS | 6.92 | 6.26 |
| 58.00 | OS1IT211066 | VISHAL DEWDA | | | PASS | 7.13 | 7.11 |
| 59.00 | OS1IT211067 | VISHAL SHARMA | | | PASS | 7.23 | 7.40 |
| 60.00 | OS1IT211068 | YUKTA KUKREJA | | | Fail | 6.88 | 7.74 |
| 61.00 | OS1IT201026 | KHENCHAND MEHRA | | | PASS | 7.13 | 8.01 |

CERTIFICATE

I, the undersigned, have completed the course allotted to me as shown below.

| S.No | Semester | Subject with Code | Total Units/ Chapters | Remarks |
|------|----------|-------------------|-----------------------|---------|
| 1. | III | OS IT501 | 5 | DONE |

Date: 15.12.24

Signature of Faculty

Lakshita Mandpe
(Lakshita Mandpe)

Submitted to HOD

Certificate by HOD

I, the undersigned, certify that Ms Lakshita Mandpe has completed the course work allotted to him/ her satisfactorily/ not satisfactorily.

Date: 15.12.24

Margi
Signature of HOD
(Ms. Margi Pate)



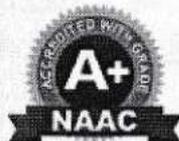
Submitted to Principal

Date: 05.01.25

Signature of Principal
(Mr. Keshav Patidar)
Principal
Indore Institute of Science
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Principal
Indore Institute of Science
& Technology, Indore



Sample Course Outcome

| Subject Code | Subject Name | CO Description |
|--------------|------------------------------------|---|
| BT-201 | Engineering Physics | The Coursework is designed to provide students the opportunity to learn key concepts of Wave nature of particles and the Schrodinger equation. |
| | | Student will able to understand the knowledge of Wave optics i.e. interference and diffraction. |
| | | To introduce the idea of solids like semiconductors (P type and N Type semiconductors), Diodes and Hall effect. Students will also be able to understand the basic concept of superconductivity. |
| | | To develop the understanding of Lasers, fiber optics and their applications in field of engineering sciences. |
| | | To provide you to basic understanding of Electrostatics in vacuum. |
| BT-102 | Mathematics-I | To introduce the fallouts of Rolle's Theorem that is fundamental to application of analysis to Engineering problems. |
| | | To introduce the idea of applying differential and integral calculus to notions of curvature and to improper integrals. Apart from some applications it gives a basic introduction on Beta and Gamma function |
| | | To develop the tool of power series and Fourier series for learning advanced Engineering Mathematics. |
| | | To familiarize the student with functions of several variables that is essential in most branches of engineering |
| | | To develop the essential tool of matrices and linear algebra in a comprehensive manner. |
| CE304 | Building Planning and Architecture | The students able to understand and to draw various building components. |
| | | The students able to deals with the building planning, orientation and drawing. |
| | | The students able to understand and deals with building services. |
| | | The students able to deals with the architectural design aspects. |
| | | The students able to Representation of a building on Paper. |
| CE305 | Strength of Material | Understand the stress and strain calculation and its importance for different materials. |
| | | Understand the analysis of bending moments and stresses generated on a beam subject to different load conditions. |
| | | Understand the importance of slope and deflection in a beam and to analyze it for different scenarios. |
| | | Analyze the behavior of columns and struts under different |




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| | | loading conditions. Understand the determination of torsion on shafts and able to analyze the problems based on combined bending and torsion and also able to analyze unsymmetrical bending in beams. |
| CE -503 | Departmental Elective - Quantitative Surveying and Costing | Students understood the purpose, importance and types of estimates. Students are able to analyze the rates of various items of work. Students learned to prepare the estimates of various types of construction works. Students gained the knowledge of all the terms, rules and regulations of estimating. Students understood the purpose, importance and methods of valuation. |
| CE -504 | Open Elective- Urban Town and Planning | Students will be able to understand planning process of an urban area & surveys conducted for urban development and designing in relation with spatial organization, utility, demand of the area and supply considering future growth of an urban area. Students shall know about Urban Planning agencies and their functions. Also public participation in planning, development control regulations, sustainability, components of sustainable urban and regional development and emerging concepts for city. Students will gain complete knowledge about town and country planning act, building bye-laws, elements of city planning, landscaping and urban planning standards. Students shall know about traffic transportation systems and management for urban roads considering Legal issues in planning and professional practice for preparation of DPR. Students will be able to understand types of development plans and Water Supply & sanitation for urban areas, planning agencies and their purpose. |
| CE -701 | Geotechnical Engineering | Understand the soil formation, terminologies of soil properties and there relation. Able to classify the type of soil. Able to determine the coefficient of permeability and permeability of layered soil. Understand the application of flow net, quick condition and Laplace equation for two dimensional flow Understand the Boussinesqs and Westergards theory, Newmarks influence chart for irregular areas. Understand the factors affecting the compaction of soil Understand the type of Consolidation of soil, Terzaghi's One Dimensional Consolidation theory and method of finding coefficient of consolidation |



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| | | <p>Understand the type of Shear Stress test i.e., Direct Shear test, Triaxial test and Vane Shear test. Able to understand the Mohr-Coulomb shear strength envelope and failure envelope. Understand the soil stabilization</p> <p>Develop thinking ability and polish his expression in group discussions.</p> <p>Be prepared for the personal interview through mock interviews while being aware of Civil Engineering</p> |
| ME404 | Fluid mechanics | <p>To understand the Newton's law of viscosity and able to explain the mechanics of fluids at rest and in motion by observing the fluid phenomena.</p> <p>Compute force of buoyancy on a partially or fully submerged body and able to analyze the stability of a floating body.</p> <p>To understand Euler's Equation of motion and Deduce Bernoulli's equation.</p> <p>To find energy losses in pipe transitions and to draw energy gradient lines.</p> <p>Evaluate pressure drop in pipe flow using Hagen-Poiseuille's equation for laminar flow in a pipe and distinguish the types of flows and determine sonic velocity in a fluid.</p> |
| ME405 | Manufacturing technology | <p>Upon completion of this course, the students will be able to understand and compare the functions and applications of different metal cutting tools</p> <p>Understand the basic concepts of gear machining</p> <p>Understand the basic concepts of plastics and molding method</p> <p>Understand the basic concepts of NTM</p> <p>The student will be able to write the programming to control and operate NC machines</p> |
| CS-305 | Object Oriented Programming & Methodology | <p>Describe the procedural and object oriented paradigm with concepts of streams, classes, functions, data and objects.</p> <p>Understand dynamic memory management techniques using pointers, constructors, destructors etc.</p> <p>Describe the concept of function overloading, operator overloading, virtual functions and polymorphism.</p> <p>Understand how to apply the major object-oriented concepts to implement object oriented programs in C++, encapsulation, inheritance and polymorphism.</p> <p>Classify inheritance with the understanding of early and late binding, usage of exception handling, generic programming.</p> |
| CS-306 | Computer Workshop | <p>Understand the concepts of Java programming.</p> <p>Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc.</p> |




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| | | |
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| | | <p>Understand fundamentals of object-oriented programming in Java and be familiar of the important concepts like class, inheritance and multithreading. AWT and JDBC.</p> <p>Use the Java SDK environment to create, debug and run Java programs.</p> <p>Develop Java applet.</p> |
| EC402 | Signals & Systems | <p>Students will able to generate and characterize various continuous and discrete time signals.</p> <p>Students will able to develop input output relationship for linear shift invariant system and understand the convolution operator for continuous and discrete time system</p> <p>Students will able to analyze the spectral characteristics of signals using Fourier analysis.</p> <p>Students will able to analyze DT systems & their realization using Z-transforms.</p> <p>Students will able to evaluate and analyse the reconstruction of signals.</p> |
| EC403 | Analog Communication | <p>Develop an understanding of the basic electronic communication process and use it for the solution of electronics and communication engineering with signals</p> <p>Derive the mathematical models for analog modulation schemes ie for AM</p> <p>Derive the mathematical models for analog modulation schemes ie for FM</p> <p>Analyze and design transmitters & receivers.</p> <p>Analyze the effects of noise in continuous wave modulation systems.</p> |
| EC 502 | Digital Communication | <p>Students can able to differentiate various sampling methods and pulse modulation schemes.</p> <p>Students can able to understand mathematical model, spectrum, advantages, disadvantages and application various Analog to Digital conversion methods.</p> <p>Students can able to understand mathematical model, spectrum, advantages, disadvantages and application of various digital modulation schemes.</p> <p>Students can able to understand probability of error and signal space representation of various digital modulation Schemes.</p> <p>Students can able to understand Information theory, Source coding and channel coding.</p> |




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