ANNEXURE I

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

New Scheme of Examination as per AICTE Flexible Curricula

III Semester Bachelor of Technology (B.Tech.) [Computer Science and Engineering/ Computer Engineering/Computer Science & Technology]

For batches admitted in July, 2020 (w.e.f. July, 2021)

S.No.	Subject Code	Category	Subject Name	Maximum Marks Allotted					Total Marks	Contact Hours per week			Total Credits
				Theory			Practical						
				End Sem.	Mid Sem. Exam.	Quiz/ Assignment	End Sem	Term work / Lab Work & Sessional		L	T	P	
1.	ES301	HSMC-3	Energy & Environmental Engineering	70	20	10	-	-	100	3	1	-	4
2.	CS302	DC-1	Discrete Structure	70	20	10	-	-	100	3	1	-	4
3.	CS303	DC-2	Data Structure	70	20	10	30	20	150	3	-	2	4
4.	CS304	DC-3	Digital Systems	70	20	10	30	20	150	3	-	2	4
5.	CS305	DC-4	Object Oriented Programming & Methodology	70	20	10	30	20	150	3	-	2	4
6.	CS306	DLC-3	Computer Workshop	-	-	-	30	20	50	-	-	4	2
7.	BT107	DLC-1	Evaluation of Internship-I completed at I year level	-	-	-	-	50	50			4	2
8.	BT307	DLC-4	90 hrs Internship based on using various softwares –Internship -II	To be completed anytime during Third/ fourth semester. Its evaluation/credit to be added in fifth semester.									
			Total	350	100	50	120	130	750	15	2	14	24
9.	BT308	MC	Indian Constitution	Non-credit course									
			NSS/NCC										

*Students can earn additional credits from the University recognized MOOC courses.

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1 Hr Lecture | 1 Hr Tutorial | 2 Hr Practical
1 Credit | 1 Credit | 1 Credit

Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

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-sports 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, Clanderson 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, Gaiam

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

Combinatorics: Introduction, Permutation and combination, Binomial Theorem, Multimonial 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, Bruse 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, GilbergBehrouz, Forouzan ,"Data structure – A Pseudocode Approach with C", Thomson press.

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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, Introductionto 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 Bistablemultivibrators
11. To characterize binary ladder type digital to analog (D/A) and analog to digital (A/D) convertor
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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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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ANNEXURE 2

ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

[illegible]

ACADEMIC READINESS AUDIT ([illegible] Sem)

Name of the Department: EC

Scheduled Date: [illegible] Actual Date: [illegible]

S.No.	Particulars	Verification (If available then Yes otherwise no)	Action Taken	Remarks
1	Subject Choice Filling Detail from HOD	Yes	–	–
2	Faculty choice filling form	Yes	–	–
3	Subject Load Allocation Detail from HOD	Yes	–	–
4	Load Allocation Sheet as per AICTE norms	Yes	–	–
5	Time [illegible] MOM	Yes	–	–
6	Process followed by HOD for the Electives offered to [illegible]	Yes	–	–
7	Process followed for Gap Analysis	Partially Completed		Will be Completed [illegible]
8	Subject Course files Report	[illegible] Completed	–	Will be Completed [illegible]
9	Notice/ MOM from HOD for TG allocation	Done	–	–
10	Notice/ MOM from HOD for other Departmental Activities	Yes	–	–
11	Notice/ MOM from HOD where faculty members are [illegible] lab in-charges	Yes	–	–
12	Availability of Lab Manuals	Yes	–	–
13	Display of lab manuals in labs	Yes	–	–
14	Display of [illegible] time table in front of class rooms and departmental Notice Board	Yes	–	–
15	Check whether faculty member is having standard readings for all experiments for the lab subjects they are dealing	[illegible] Completed		Will be Completed [illegible]
16	Module Readiness	Yes Completed	–	Will be Completed [illegible]
17	Identification of Value addition Course for the current semester and its Process of identification	Yes	–	–
18	Advisory calendar	Yes	–	–
19	TG files	Yes	–	–

[illegible] & Name of Committee Members with Date

Prof. [illegible]

Head of Department
Electronics & Communication Engineering
Oriental College of Technology, Bhopal

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Oriental College of Technology
Patel Nagar, Raisen Road, Bhopal

18/11/2020

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA

(University of Technology of Madhya Pradesh)

ACADEMIC CALENDAR FOR THE YEAR 2020-2021

FOR DEGREE PROGRAMMES B. Tech./ B.Pharma/ B.Arch. & FOR POST GRADUATE PROGRAMMES ME / M.Tech. / M.Pharma/ /MBA /M.Arch./MCA (I[st] year)

S.No.	Particular	Odd Semester Schedule	Even Semester Schedule
01.	Duration of Semester	July-December 2020	January-June 2021
02.	Commencement of Academic	1 Nov.2020	22 March 2021
03.	Student Induction Program (SIP) 21 days (Under Graduates)	1 Nov.2020	-
04.	I Sessional Exam/Mid/Sem.	11-15 Jan. 2021	16-30April 2021
05.	II Sessional Exam/Mid/Sem.	15-19 Feb.2021	26-29 May 2021
06.	Submission of Examination Form i. Without late fee ii. With Late Fee	 15-21 Feb. 2021 22-24 Feb. 2021	 07-14 June 2021 15-18 June 2021
07.	Last date of Teaching	25 Feb. 2021	12 July 2021
08.	Submission of internal marks to University	Upto 15 March 2021	Upto 15 July 2021
09.	End Semester Examination (i) Practical Examination (ii) Theory	 01 – 05 March 2021 06 – 16 March 2021	 19 -24 July 2021 27July-15Aug. 2021
10	End Semester Break / Internship	-	-
11.	Summer Vacation for teachers	-	01-30 June 2021

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.

Controller (Exam)
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Vishwavidyalaya, Bhopal

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ANNEXURE 3

ORIENTAL COLLEGE TECHNOLOGY

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Oriental Campus, Thakral Nagar, Raisen Road, Bhopal-462 022 (M.P.) INDIA

Academic Calendar for the Academic Year 2020-2021 (EVEN Semesters)
B. Tech. IV, VI (GS) and BE VIII Semester CBGS & M.Tech.

S. No	Particular	VI & VIII th Semesters	IV semester
1	Duration of Semester	Jan-June 2021	Jan-June 2021
2	Commencement of Semester & students registration	01.02.2021 (VIII SEM) 15.02.2021(VI SEM)	01.02.2021
3	Professional Training (Soft skills & CRT)	15.02.21-12.07.21	01.02.2021
4	Internal Assessment I	02.03.21-03.03.21	31.03.2021
5	Internal Assessment II	15.03.21-16.03.21	5.04.2021-06.04.2021
6	Mid Semester –I Examination	22.03.21-23.03.21	8.04.2021-10.04.2021
7	Major & Minor Project Progress Presentations	5.04.21-06.04.2021	-
8	Internal Assessment III	9.04.21-10.04.21	16.04.2021-17.04.2021
9	Internal Assessment IV	16.04.21-17.04.21	29.04.2021-30.04.2021
10	Internal Assessment V	23.04.2021-24.04.2021	03.05.2021-04.05.2021
11	Minor & Major Project Exhibition	24.04.2021	-
12	Mid Sem- II Examination (Theory & Practical)	26.04.21-30.04.21	04.05.2021-08.05.2021
13	General Proficiency Interview	26.04.21-30.04.21	04.05.2021-08.05.2021
14	Submission of Examination form i. Without Late Fee ii. With Late Fee	7.06.2021-14.06.2021 15.06.2021-18.06.2021	As per RGPV
15	Last Date of Teaching	12.07.2021	As per RGPV
16	Submission of internal Marks to University	15.07.2021	As per RGPV
17	End Semester Examination i. Practical ii. Theory	19.07.2021-24.07.2021	As per RGPV
18	Internship/semester break/ Summer Vacation for teachers	24.07.2021 onwards	As per RGPV

Dr. Amita Mahor
Director
28/01/2021

Note:

1. Dates may slightly vary as per the .

2. 75% attendance is compulsory for appearing in Mid Semester-I and Mid Semester-II examinations and also for forwarding of Examination & Scholarship forms.

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Phone [illegible]
Fax [illegible]
E-mail [illegible]
Website [illegible]

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Dt. 13.07.2020

Academic Calendar for ODD Sem, Session July-December, 2020

For B.Tech III, V and VII Semester (Grading System)

S. No	Activity	Dates	Remark
1.	Commencement of Semester	15th July, 2020	All HODs and TGs to ensure proper filling up of all fields in online Registration Form and submit it to the respective TG.
2.	Internal Assessment-I (Unit Test -I)	17-19, August 2020	Quiz/Assignment/Unit tests to be scheduled during this duration.
3.	Internal Assessment-II (Unit Test -I)	07-08, September 2020	Quiz/Assignment/Unit tests to be scheduled during this duration.
4.	Mid Semester-I Examination	12-16,October 2020	It should cover 50% of syllabus. Shall be of two hours duration.
5.	Internal Assessment-III(Unit Test -I)	19-20, October 2020	Quiz/Assignment/Unit tests to be scheduled during this duration.
6.	Internal Assessment-IV	30-31 October 2020	Quiz/Assignment/Unit tests to be scheduled during this duration.
7.	Remedial Classes/Doubt Clearing Classes	23 November - 28 November 2020	Compulsory for students with attendance less than 50%.
8.	Internal Assessment-V	16-17 November 2020	Quiz/Assignment/Unit tests to be scheduled during this duration.
9.	Mid Semester-II Examination	23 – 27 November 2020	It should cover remaining 50% of syllabus after Mid sem-I of each subject.
10.	End of Teaching	28 November, 2020	
11.	Submission of internal Marks to University	01-07 December,2020	
12.	Practical Viva Voce (End Sem RGPV)	01-07 December 2020	
13.	University Examination (Theory)	08-31 December, 2020	
14.	End Semester Break	01-15 anuary,2021	

Note: *1. Student should clear their semester fee before the commencement of semester & latest by date of registration.*

2. 75% attendance is compulsory for appearing in Mid Semester-I and Mid Semester-II examinations and also for forwarding of Examination & Scholarship forms.

ANNEXURE 4

Phone No.-0755-2529015, 25299
Fax: 0755-25294
E-mail: directoroct@oriental.ac.
Website: http://www.oriental.ac.in/oct-bhopa

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Department of Basic Science
Activity Calendar
Session July-Dec. 2020 [For Batch: 2020-2024]

S. No	Activity	Date	Remarks	Faculty Coordinator
1.	Alumni Talk (Finding opportunities in difficult times)	19.11.2020	All Branches	
2.	Webinar [Self direction under universal Human Values (UHV)]	21.11.2020	All Branches	Dr Shilpa Kapoor
3.	Webinar [Self Defense Training and Safety measures for girls]	12.12.2020	For All Girls	Ms. Asha Gaur
4.	Orientation 2020	16.12.2020	All Branches	Dr Sonendra Gupta and Dr. Shivali Verma
5.	Webinar [Human values and professional ethics under universal Human Values (UHV)]	19.12.2020	All Branches	Dr Shilpa Kapoor
6.	Webinar [Confidence building in girls]	18.12.2020	For All Girls	Ms. Asha Gaur and Dr. Shivali Verma
7.	Alumni Talk [Future Aspects of Cyber Security& Data Analytic]	29.12.2020	CSE (CY & DS)	Dr. Shivali Vemra
8.	Online Induction Programme, IIT Gandhi Nagar [algorithmic and critical thinking,]	08 and 12 Jan2021	All Branches	Ms. Asha Gaur and Dr. Shivali Vemra
9.	National Youth Day [Essay and Poem]	12.01.2021	All Branches	Ms. Asha Gaur and Dr. Shivali Vemra
10.	Alumni Talk [Motivation to achieve your goals]	15.01.2021	All Branches	Dr Shilpa Kapoor and Dr. Rajesh Khattri
11.	National Girl Child Day	24.01.2021	All Branches	Ms. Asha Gaur and Dr. Shivali Vemra
12.	Webinar [Role and distinctive overviews of energy environment Ethics and society in an Industry and Climate change]	29.01.2021	All Branches	Dr Shilpa Kapoor and Ms. Kiran Gupta
13.	Webinar [Women and Cyber Security]	10.02.2021	All Branches	Dr. Shilpa Kapoor and Dr. Rajesh Khattri

Date :

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HOD, BS

ANNEXURE 5

TU(RR)B1/(KG)B2

	ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL TIME TABLE PERIOD WISE DETAILS W.E.F. 17.11.2020	Format No	1
		ISSUE NO	2
		YEAR	2020-2021

Department: Basic Sciences | Branch: CSE-A | Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	English (Prof. Asha Gaur)	BEEE (Mr. Anshul Ojha)	LUNCH	Engg. Graphics (Mr. Harish Patel)		Lab.BEEE(AO)B1/WS(M5)B2
Tuesday	Engg. Mathematics-I (Dr. Sonendra Gupta)	Engg. Chemsitry (Dr. Rajeshwari Gaur)		Engg. Graphics (Mr. Harish Patel)	TU(EG-HP)B1/(BEEE-AM)B2	TU(CS-AG)B1/(EC-RG)B2
Wednesday	English (Prof. Asha Gaur)	TU(M-1-SG)B2/(BEEE-AO)B1		CRT (Mr. Sandeep Monga)	Lab.CS(AG)B2/EC(RG)B1	BEEE (Mr. Anshul Ojha)
Thursday	Engg. Mathematics-I (Dr. Sonendra Gupta)	Engg. Chemsitry (Dr. Rajeshwari Gaur)		Lab.BEEE(AO)B2/WS(AG)B1	CRT (Mr. Sandeep Monga)	TG [Prof. Asha Gaur and Dr. Shilpa Kapoor]
Friday	TU(CS-AG)B1/(EC-RG)B2	CRT (Mr. Sandeep Monga)		TU(M-1-SG)B1/(EG-HP)B2	Engg. Mathematics-I (Dr. Sonendra Gupta)	Lab.CS(AG)B1/EC(RG)B2

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-101	Engg.Chemistry (EC)	Dr. Rajeshwari Gaur (RG)
BT-102	Engg. Mathematics-I (M-1)	Dr Sonendra Gupta (SG)
BT-103	Comm.Skill (CS)	Prof. Asha Gaur (AG)
BT-104	Basic Electrical Electronics Engg.(BEEE)	Mr. Anshul Ojha (AO)
BT-105	Engg. Graphics (EG)	Mr. Harish Patel (HP)
BT-106	Manufacturing Practices (MP)	Mr. Manoj Sharma (MS)
	Company Recruitment Training (CRT)	Mr. Sandeep Monga (SM)

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		ISSUE NO	2
		YEAR	2020-2021

Department: Basic Sciences | Branch: CSE-B | Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	BEEE (Mr. Anshul Ojha)	Engg. Chemsitry (Prof. Kiran Gupta)	LUNCH	TU(M-1-SG)B2/(BEEE-AO)B1	CRT (Mr. Sandeep Monga)	Lab.CS(AG)B1/EC(KG)B2
Tuesday	English (Prof. Asha Gaur)	CRT (Mr. Sandeep Monga)		Engg. Mathematics-I (Dr. Sonendra Gupta)	TU(CS-AG)B1/(EC-KG)B2	TU(EG-HP)B1/(BEEE-AO)B2
Wednesday	Engg. Mathematics-I (Dr. Sonendra Gupta)	Engg. Chemsitry (Prof. Kiran Gupta)		Engg. Graphics (Mr. Harish Patel)		Lab.CS(AG)B2/EC(KG)B1
Thursday	English (Prof. Asha Gaur)	Lab.BEEE(AO)B2/WS(MS)B1		Engg. Graphics (Mr. Harish Patel)	TU(M-1-SG)B1/(EG-HP)B2	Engg. Mathematics-I (Dr. Sonendra Gupta)
Friday	BEEE (Mr. Anshul Ojha)	TU(CS-AG)B1/(EC-KG)B2		Lab.BEEE(AO)B1/WS(MS)B2	TG [Prof. Kiran Gupta and Prof. Ashish Gurjar]	CRT (Mr. Sandeep Monga)

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-101	Engg.Chemistry (EC)	Prof. Kiran Gupta
BT-102	Engg. Mathematics-I (M-1)	Dr. Sonendra Gupta
BT-103	Comm.Skill (CS)	Prof. Asha Gaur (AG)
BT-104	Basic Electrical Electronics Engg.(BEEE)	Mr. Anshul Ojha (AO)
BT-105	Engg. Graphics (EG)	Mr. Harish Patel (HP)
BT-106	Manufacturing Practices (MP)	Mr. Manoj Sharma (MS)
	Company Recruitment Training (CRT)	Mr. Sandeep Monga (SM)

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		YEAR	2020-2021

Department: Basic Sciences | Branch: CSEDS | Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	Engg. Mathematics-I (Prof. Kamlesh Ku. Sahu)	English (Ms. Bhavana Shirke)	LUNCH	Lab.BEEE(SM)B1/WS(MS) B2	Engg. Chemistry (Prof. Kiran Gupta)	CRT (Mr. Sandeep Monga)
Tuesday	Engg. Mathematics-I (Prof. Kamlesh Ku. Sahu)	TU(EG-AS)B1/(BEEE-SM)B2		CRT (Mr. Sandeep Monga)	Lab.CS(BS)B2/EC(RD)B1	TG [Prof. Kamlesh Ku. Sahu and Dr. Rajesh Khatri]
Wednesday	Engg. Graphics (Mr.Arijeet Sarkar)	BEEE (Ms.Shravni Mathur)		Engg. Mathematics-I (Prof. Kamlesh Ku. Sahu)	TU(CS-BS)B1/(EC-KG)B2	TU(M-1-KS)B2/(BEEE-SM)B1
Thursday	BEEE (Ms.Shravni Mathur)	CRT (Mr. Sandeep Monga)		TU(M-1-KS)B1/(EG-AS)B2	Lab.BEEE(SM)B1/WS(MS) B2	Lab.CS(BS)B1/EC(RD)B2
Friday	Engg. Chemistry (Prof. Kiran Gupta)	English (Ms. Bhavana Shirke)		Engg. Graphics (Mr.Arijeet Sarkar)		TU(CS-BS)B1/(EC-KG)B2

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-101	Engg.Chemistry (EC)	Ms. Kiran Gupta (KG)/Ritu Dwivedi
BT-102	Engg. Mathematics-I (M-1)	Mr. Kamlesh Kumar Sahu (KS)
BT-103	Comm.Skill (CS)	Ms. Bhavana Shirke (BS)
BT-104	Basic Electrical Electronics Engg.(BEEE)	Ms.Shravni Mathur (SM)
BT-105	Engg. Graphics (EG)	Mr.Arijeet Sarkar (AS)
BT-106	Manufacturing Practices (MP)	Mr. Manoj Sharma (MS)
	Company Recruitment Training (CRT)	Mr. Sandeep Monga (SM)

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		ISSUE NO	2
		YEAR	2020-2021

Department: Basic Sciences Branch: CSECS Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	Engg. Chemsitry (Ms. Ritu Dwivedi)	CRT (Mr. Sandeep Monga)	LUNCH	English (Ms. Bhavana Shirke)	Engg. Graphics (Mr.Arijeet Sarkar)	
Tuesday	English (Ms. Bhavana Shirke)	Engg. Chemsitry (Ms. Ritu Dwivedi)		Lab.CS(BS)B2/EC(RD)B1	Lab.BEEE(SM)B1/WS(MS)B2	TG (Dr. Shivali Verma & Ajeet Sarkar)
Wednesday	BEEE (Ms.Shravni Mathur)	TU(CS-BS)B1/(EC-RD)B2		TU(EG-AS)B1/(BEEE-SM)B2	Engg. Mathematics-I (Prof. Kamlesh Ku. Sahu)	CRT (Mr. Sandeep Monga)
Thursday	Engg. Graphics (Mr.Arijeet Sarkar)	Engg. Mathematics-I (Prof. Kamlesh Ku. Sahu)		CRT (Mr. Sandeep Monga)	TU(CS-BS)B2/(EC-RD)B1	TU(M-1-KS)B2/(BEEE-SM)B1
Friday	TU(M-1-KS)B1/(EG-AS)B2	Lab.BEEE(SM)B2/WS(MS)B1		BEEE (Ms.Shravni Mathur)	Lab.CS(BS)B1/EC(RD)B2	Engg. Mathematics-I (Prof. Kamlesh Ku. Sahu)

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-101	Engg.Chemistry (EC)	Ms. Ritu Dwivedi (RD)
BT-102	Engg. Mathematics-I (M-1)	Mr. Kamlesh Kumar Sahu (KS)
BT-103	Comm.Skill (CS)	Ms. Bhavana Shirke (BS)
BT-104	Basic Electrical Electronics Engg.(BEEE)	Ms.Shravni Mathur (SM)
BT-105	Engg. Graphics (EG)	Mr.Arijeet Sarkar (AS)
BT-106	Manufacturing Practices (MP)	Mr. Manoj Sharma (MS)
	Company Recruitment Training (CRT)	Mr. Sandeep Monga (SM)

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		ISSUE NO	2
		YEAR	2020-2021

Department: Basic Sciences | Branch: IT-A | Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	Engg. Graphics (Md. Sahnawaz Ansari)		LUNCH	Engg. Chemsitry (Dr. Vandana Jain)	Engg. Mathematics-I (Prof. Pushpraj Gupta)	TU(CS-SM)B1/(EC-VJ)B2
Tuesday	Engg. Graphics (Md. Shahnaz Ansari)	TU(M-1-PG)B1/(EG-SA)B2		TU(CS-SM)B2/(EC-VJ)B1	TG [Prof. Pushpraj Gupta and Prof. Priyanka Rai]	Lab.BEEE(DB)B1/WS(MS)B2
Wednesday	TU(EG-SA)B1/(BEEE-DB)B2	Lab.BEEE(DB)B2/WS(MS)B1		Lab.CS(SM)B2/EC(VJ)B1	CRT (Ms. Anshu Shrivastava)	English (Ms. Shreelatha Mohan)
Thursday	Engg. Mathematics-I (Prof. Pushpraj Gupta)	BEEE (Ms. Deepti Bansod)		English (Ms. Shreelatha Mohan)	Lab.CS(SM)B1/EC(VJ)B2	CRT (Ms. Anshu Shrivastava)
Friday	Engg. Chemsitry (Dr. Vandana Jain)	BEEE (Ms. Deepti Bansod)		Engg. Mathematics-I (Prof. Pushpraj Gupta)	CRT (Ms. Anshu Shrivastava)	TU(M-1-PG)B2/(BEEE-DB)B1

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-101	Engg.Chemistry (EC)	Dr. Vandana Jain (VJ)
BT-102	Engg. Mathematics-I (M-1)	Mr. Pushpraj Gupta (PG)
BT-103	Comm.Skill (CS)	Ms. Shreelatha Mohan (SM)
BT-104	Basic Electrical Electronics Engg.(BEEE)	Ms. Deepti Bansod (DB)
BT-105	Engg. Graphics (EG)	Md. Sahnawaz Ansari (SA)
BT-106	Manufacturing Practices (MP)	Mr. Manoj Sharma (MS)
	Company Recruitment Training (CRT)	Ms. Anshu Shrivastava (AS)

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		YEAR	2020-2021

Department: Basic Sciences | Branch: IT-B and EX | Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	Lab.BEEE(DB)B2/WS(MS)B1	English (Ms. Shreelatha Mohan)	LUNCH	CRT (Ms. Anshu Shrivastava)	Lab.CS(SM)B2/EC(DM)B1	Engg. Mathematics-I (Prof. Pushpraj Gupta)
Tuesday	Engg. Chemistry (Dr. Meena Chourey)	CRT (Ms. Anshu Shrivastava)		TU(M-1-PG)B1/(EG-SA)B2	BEEE (Ms. Deepti Bansod)	TU(CS-AG)B1/(EC-DM)B2
Wednesday	Engg. Chemistry (Dr. Meena Chourey)	Engg. Mathematics-I (Prof. Pushpraj Gupta)		BEEE (Ms. Deepti Bansod)	TU(CS-SM)B2/(EC-DM)B1	Lab.BEEE(DB)B1/WS(MS)B2
Thursday	English (Ms. Shreelatha Mohan)	Engg. Mathematics-I (Prof. Pushpraj Gupta)		CRT (Ms. Anshu Shrivastava)	TU(EG-SA)B1/(BEEE-DB)B2	Engg. Graphics (Md. Sahnawaz Ansari)
Friday	TU(M-1-PG)B2/(BEEE-DB)B1	TG (Md. Sahnawaz Ansari and Prof. Ankit Pandey)		Lab.CS(SM)B1/EC(DM)B2	Engg. Graphics (Md. Sahnawaz Ansari)	

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-101	Engg.Chemistry (EC)	Dr. Meena Chourey (DM)
BT-102	Engg. Mathematics-I (M-1)	Mr. Pushpraj Gupta (PG)
BT-103	Comm.Skill (CS)	Ms. Shreelatha Mohan (SM)
BT-104	Basic Electrical Electronics Engg.(BEEE)	Ms. Deepti Bansod (DB)
BT-105	Engg. Graphics (EG)	Md. Sahnawaz Ansari (SA)
BT-106	Manufacturing Practices (MP)	Mr. Manoj Sharma (MS)
	Company Recruitment Training (CRT)	Ms. Anshu Shrivastava (AS)

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		ISSUE NO	2
		YEAR	2020-2021

Department: Basic Sciences | Branch: CE and ME | Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	Engg. Physics (Dr. Narender Singh)	Engg. Mathematics-I (Ms.Nidhi Verma)	LUNCH	TU(BME-GT)B1/(BCE-PP)B2	CRT (Ms. Anshu Shrivastava)	BCE (Prof.Pankaj Pandey)
Tuesday	Engg. Physics (Dr. Narender Singh)	Engg. Mathematics-I (Ms.Nidhi Verma)		Lab.LLS-ST B2/BCE-PP B1	TU(BME-GT)B2/(BCEM-DG)B1	CRT (Ms. Anshu Shrivastava)
Wednesday	BME (Prof. Gaurav Thakur)	TU(M-1-NV)B1/(EP-NS)B2		TU(BCE-PP)B1/(BCEM-DG)B2	Lab.BCEM-DG- B2/EP-NS B1	CRT (Ms. Anshu Shrivastava)
Thursday	TU(M-1-NV)B2/(EP-NS)B1	Lab.BCEM-DG- B1/EP-NS B2		Engg. Mathematics-I (Ms.Nidhi Verma)	BCEM (Prof. Deepak Garg)	Lab.BME-GT B1/LLS-ST B2
Friday	TG (Dr. Narender Singh and Prof. Pradeep Mishra)	BCEM (Prof. Deepak Garg)		Lab.BME-GT B1/BCE-PP B2	BCE (Prof.Pankaj Pandey)	BME (Prof. Gaurav Thakur)

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-201	Engg. Physics (EP)	Dr. Narender Singh (NS)
BT-102	Engg. Mathematics-I (M-1)	Ms.Nidhi Verma (NV)
BT-203	Basic Mechanical Engineering (BME)	Mr. Gaurav Thakur (GT)
BT-204	Basic Civil and Engineering Mechanics (BCEM)	Mr. Deepak Garg (DG)
BT-205	Basic Computer Engineering (BCE)	Mr. Pankaj Pandey (PP)
BT-206	Language Lab and Seminar (LLS)	Dr. Sunita Thapak (ST)
	Company Recruitment Training (CRT)	Ms. Anshu Shrivastava (AS)

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		YEAR	2020-2021

Department: Basic Sciences | Branch: EC | Semester : First

Day	I 10:00-11:00	II 11:15-12:15	12:15-01:00	III 1:00 - 2.00	IV 2:15-3:15	V 3.30-4:30
Monday	BCEM (Prof. Deepak Garg)	TU(BME-GT)B1/(BCE-NC)B2	LUNCH	Engg. Mathematics-I (Ms.Nidhi Verma)	Lab.BCEM-DG- B2/EP-SV B1	BME (Prof. Gaurav Thakur)
Tuesday	Engg. Physics (Dr. Shivali Verma)	TU(BME-GT)B2/(BCEM-DG)B1		BCEM (Prof. Deepak Garg)	CRT (Ms. Anshu Shrivastava)	Lab.LLS-ST B1/BME-GT B2
Wednesday	TU(M-1-NV)B2/(EP-NP)B1	BME (Prof. Gaurav Thakur)		Lab.LLS-ST B2/BCE-NC B1	Engg. Mathematics-I (Ms.Nidhi Verma)	BCE (Prof. Neha Chandrima)
Thursday	CRT (Ms. Anshu Shrivastava)	BCE (Prof. Neha Chandrima)		Lab.BME-GT B1/BCE-NC B2	TU(M-1-NV)B1/(EP-SV)B2	Engg. Physics (Dr. Shivali Verma)
Friday	TG (Dr. Narender Singh and Prof. Pradeep Mishra)	Engg. Mathematics-I (Ms.Nidhi Verma)		TU(BCE-PM)B1/(BCEM-DG)B2	Lab.BCEM-DG- B1/EP-SV B2	CRT (Ms. Anshu Shrivastava)

Prepared By : Mr. Pushpraj Gupta

Subject Code	Subject Name	Name of Faculty
BT-201	Engg. Physics (EP)	Dr. Shivali Verma (SV)
BT-102	Engg. Mathematics-I (M1)	Ms.Nidhi Verma (NV)
BT-203	Basic Mechanical Engineering (BME)	Mr. Gaurav Thakur (GT)
BT-204	Basic Civil and Engineering Mechanics (BCEM)	Mr. Deepak Garg (DG)
BT-205	Basic Computer Engineering (BCE)	Ms. Neha Chandrima (NC)
BT-206	Language Lab and Seminar (LLS)	Dr. Sunita Thapak (ST)
	Company Recruitment Training (CRT)	Ms. Anshu Shrivastava (AS)

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ANNEXURE 6

Mathematics-II | 2020-2021

Oriental College of Technology, Bhopal

Department of Basic Sciences

Syllabus

Branch: Common

Max. Marks: 70

Subject: MATHEMATICS- II

Subject Code: BT202

Module 1: [Ordinary Differential Equations I]

Differential Equations of First Order and First Degree (Leibnitz linear, Bernoulli's, Exact), Differential Equations of First Order and Higher Degree, Higher order differential equations with constants coefficient, Homogeneous Linear Differential equations, Simultaneous Differential Equations.

Module 2 [Ordinary differential Equations II]

Second order linear differential equations with variable coefficients, Method of variation of parameters, Power series solutions; Legendre polynomials, Bessel functions of the first kind and their properties.

Module 3 [Partial Differential Equations]

Formulation of Partial Differential equations, Linear and Non-Linear Partial Differential Equations, Homogeneous Linear Partial Differential Equations with Constants Coefficients.

Module 4 [Functions of Complex Variable]

Functions of Complex Variables: Analytic Functions, Harmonic Conjugate, Cauchy-Riemann Equations (without proof), Line Integral, Cauchy-Goursat theorem (without proof), Cauchy Integral formula (without proof), Singular Points, Poles & Residues, Residue Theorem, Application of Residues theorem for Evaluation of Real Integral (Unit Circle).

Module 5 [Vector Calculus]

Differentiation of Vectors, Scalar and vector point function, Gradient, Geometrical meaning of gradient, Directional Derivative, Divergence and Curl, Line Integral, Surface Integral and Volume Integral, Gauss Divergence, Stokes and Green theorems.

Textbooks/References:

G.B. Thomas and R.L. Finney, Calculus and Analytic geometry, 9th Edition, Pearson, Reprint, 2002.

1. Erwin kreyszig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, 2006.
2. W. E. Boyce and R. C. Di Prima, Elementary Differential Equations and Boundary Value Problems, 9th Edn., Wiley India, 2009.
3. S. L. Ross, Differential Equations, 3rd Ed., Wiley India, 1984.
4. E. A. Coddingt on, An Introduction to Ordinary Differential Equations, Prentice Hall India, 1995.
5. E. L. Ince, Ordinary Differential Equations, Dover Publications, 1958.
6. J. W. Brown and R. V. Churchill, Complex Variables and Applications, 7th Ed., McGraw Hill, 2004.

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Department of Basic Sciences

Lecture Plan Outcome Based

Department:	BS	Session:	January-June 2021
Name of Faculty:	Kamlesh Kumar Sahu	Semester:	Second Semester
Subject:	Mathematics-II	Sub Code:	BT-202
Branch	IT	Section:	A
Total expected Lectures	50	Extra Lectures (if required)	

S. No	Topic to be Covered	Date of Completion	References	Teaching Methodology*	Reference to Course Outcomes
	Module-1 (Ordinary Differential Equations I)				
1	Introduction of Differential Equations of First Order and First degree	15.3.21	R1: 3-86	PPT/Online	CO1
2	Linear differential Equation	16.3.21	R1: 3-86	PPT/Online	CO1
3	Bernoulli's Equation	17.3.21	R1: 3-86	PPT/Online	CO1
4	Exact Differential Equation	18.3.21	R1: 3-86	PPT/Online	CO1
5	Non-Exact differential equation Method-1 & 2	19.3.21	R1: 3-86	PPT/Online	CO1
6	Non-Exact differential equation Method-3 & 4	20.3.21	R1: 3-86	PPT/Online	CO1
7	Differential Equations of First Order and Higher Degree solvable for p	22.3.21	R1: 3-86	PPT/Online	CO1
8	Differential Equations of First Order and Higher Degree solvable for x and y	23.3.21	R1: 3-86	PPT/Online	CO1
9	Higher order differential equations with constants coefficients Working Rule C.F	25.3.21	R1: 3-86	PPT/Online	CO1
10	Method to find P.I and Rule-1-2 & Problems	26.3.21	R1: 3-86	PPT/Online	CO1
11	Method to find P.I and Rule-3-4 & Problems	30.3.21	R1: 3-86	PPT/Online	CO1
12	Homogeneous LDE and Problems	31.3.21	R1: 3-86	PPT/Online	CO1
13	Simultaneous Differential Equations	1.4.21	R1: 3-86	PPT/Online	CO1
	Module-2 (Ordinary Differential Equations II)				
14	Second order linear differential equations Method-1 One known solution	5.4.21	R_2: 159-357	PPT/Online	CO2
15	Method-2 Removable of first derivative	6.4.21	R_2: 159-357	PPT/Online	CO2
16	Method-3 Changing of independent variable	7.4.21	R_2: 159-357	PPT/Online	CO2
17	Method-4 Variation of parameter	8.4.21	R_2: 159-357	PPT/Online	CO2
18	Power Series and Problems	9.4.21	R_2: 159-357	PPT/Online	CO2
19	Bessel's differential equation and function	12.4.21	R_2: 159-357	PPT/Online	CO2
20	Bessel's function of first and second kind	15.4.21	R_2: 159-357	PPT/Online	CO2
21	Legendre differential equation and function	16.4.21	R_2: 159-357	PPT/Online	CO2
22	Recurrence function of Legendre function	20.4.21	R_2: 159-357	PPT/Online	CO2
	Module-3 (Partial Differential Equations)				
23	Formulation of Partial Differential equations	20.4.21	R_3: 330-451	PPT/Online	CO3
24	Problems on Formulation of Partial Differential equations	22.4.21	R_3: 330-451	PPT/Online	CO3
25	Lagrange's first order PDE	23.4.21	R_3: 330-451	PPT/Online	CO3
26	Non-Linear PDE standard form-1	30.4.21	R_3: 330-451	PPT/Online	CO3
27	Non-Linear PDE standard form-2 and 3	3.5.21	R_3: 330-451	PPT/Online	CO3
28	Non-Linear PDE standard form-4 and Charpit Equation	4.5.21	R_3: 330-451	PPT/Online	CO3

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29	Homogeneous Linear Partial Differential Equations with Constants Coefficients working rule of C.F and problems and Method to find P.I. Method-1	5.5.21	R_3: 330-451	PPT/Online	CO3
30	Method to find P.I. Method-2	6.5.21	R_3: 330-451	PPT/Online	CO3
31	Method to find P.I. Method-3	7.5.21	R_3: 330-451	PPT/Online	CO3
32	Method to find P.I. Method-4 Short cut method	10.5.21	R_3: 330-451	PPT/Online	CO3
	Module-4 (Functions of Complex Variable)				
33	Analytic function [CR Equation] and Problems	11.5.21	R2: 131-207	PPT/Online	CO4
34	Harmonic functions and Problems	13.5.21	R2: 131-207	PPT/Online	CO4
35	Line Integral, Cauchy-Goursat Theorem and Problems	17.5.21	R2: 131-207	PPT/Online	CO4
36	Cauchy Integral formula and Problems	18.5.21	R2: 131-207	PPT/Online	CO4
37	Singular Points, Poles & Residues	20.5.21	R2: 131-207	PPT/Online	CO4
38	Problems on Singular Points, Poles & Residues	21.5.21	R2: 131-207	PPT/Online	CO4
39	Residue Theorem and Problems	24.5.21	R2: 131-207	PPT/Online	CO4
40	Application of Residues theorem for Evaluation of Real Integral (Unit Circle).	25.5.21	R2: 208-266	PPT/Online	CO4
	Module-5 [Vector Calculus]				
41	Differentiation of Vectors, Scalar and vector point function	25.5.21	R_3: 630–646	PPT/Online	CO5
42	Gradient, Geometrical meaning of gradient	27.5.21	R_2: 630–646	PPT/Online	CO5
43	Geometrical meaning of Divergence and Curl	28.5.21	R_3: 647–722	PPT/Online	CO5
44	Problems on divergent and Curl	31.5.21	R_3: 647–722	PPT/Online	CO5
45	Directional Derivative	1.6.21	R_3: 647–722	PPT/Online	CO5
46	Line Integral	3.6.21	R_3: 647–722	PPT/Online	CO5
47	Surface Integral and Volume Integral	7.6.21	R_2: 647–722	PPT/Online	CO5
48	Gauss Divergence theorem	8.6.21	R_2: 647–722	PPT/Online	CO5
49	Stokes theorem	10.6.21	R_3: 647–722	PPT/Online	CO5
50	Green theorems	11.6.21	R_3: 647–722	PPT/Online	CO5

(HOD, BS)

Kamlesh Kumar Sahu

(Asso. Professor)

Textbooks/References:

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7) J. W. Brown and R. V. Churchill, Complex Variables and Applications, 7th Ed., McGraw Hill,2004.
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Department of Basic Sciences

RATIONALE:

The purpose of this subject is to develop problem-solving skills among students, as most of the engineering problems are qualitative and quantitative. This syllabus provides a comprehensive introduction of basic calculus and theorems related with calculus whose applications are required for solving various engineering problems.

Course Outcomes (COs)

Course Name: Mathematics – II (BT 202) Year of Study: 2020-21 (II Semester)	
BT-202.1	Understand the basic concept of ordinary differential Equation, Exact differential Equation, LDE and HLDE
BT-202.2	Illustrate the concept Second order differential Equations, Series Solution, Legendre's function and Bessel's function
BT-202.3	Understand the concept of Partial differential Equations for learning advanced Engineering Mathematics.
BT-202.4	Understand of analytic function and contour integration in engineering problems.
BT-202.5	Develop the concept of vector calculus and its application

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CO vs. PO Mapping

Course Name: Mathematics-II (BT 202)
Year of Study: 2020-21 (II Semester)

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
BT-202.1 (CO1)	3	3	3	3	1	1	1	1	1	1	1	3
BT-202.2 (CO1)	3	3	3	3	1	1	2	1	1	1	1	2
BT-202.3 (CO2)	3	3	3	2	1	1	1	-	-	1	1	2
BT-202.4 (CO3)	3	3	3	2	1	1	2	1	1	1	1	2
BT-202.5 (CO4)	3	3	3	2	1	1	2	1	1	1	1	2
AVERAGE	3	3	3	2.4	1	1	1.6	0.8	0.8	1	1	2.2

JUSTIFICATION OF CO'S and PO'S Correlation

CO-PO	CORELATION LEVEL	JUSTIFICATION
CO1-PO1	3	Ordinary differential equations are more important to know the wide applications in various engineering and science disciplines
CO1-PO2	3	Ordinary differential equations are applied to population modeling, mixing problems, Newtonian mechanics, Newton's law of cooling, and electrical circuit analysis.
CO1 -PO3	3	Ordinary differential equations play a prominent role in many disciplines including engineering , Physics, Economics, and Biology.
CO1 -PO4	3	Uses of Ordinary differential equations to solve the complex problems.
CO1-PO5	1	Create, select and apply appropriate techniques, resources and modern engineering.
CO1-PO6	1	Ordinary differential equations used to describe exponential growth and decay, the population growth of species or the change in investment return over time.
CO1-PO7	1	Ordinary differential equation models investigate environmental and sustainability issues for example relationship between humans and the forest stock, atomic waste disposal in oceans, refined population forecasting etc.
CO1-PO8	1	Ordinary differential equation is closely related to subjects such as the philosophy of science, the philosophy of engineering, and the ethics of technology.
CO1-PO9	1	Differential equation helps in calculating rate of change of one variable with respect to other so helps in finding results for individual work.
CO1-PO10	1	Students communicate ideas become objects of reflection, refinement, discussion, and amendment.
CO1-PO11	1	Ordinary differential equations are of practical significance to analyze the specific application of Ordinary differential equations in the finatcial field..
CO1-PO12	3	Recognize the need for lifelong learning in broadest context of technological change.

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CO2-PO1	3	Higher order differential equations are more important to know the wide applications in various engineering and science disciplines
CO2-PO2	3	Second order differential equations are applied in the analysis of vibrating systems and the analysis of electrical circuits.
CO2 -PO3	3	Higher order differential equations play a prominent role in many disciplines including engineering , Physics, Economics, Biology and Mechanical Engineering Analysis
CO2 -PO4	3	Uses of Second order differential equations to solve the complex problems in Engineering
CO2-PO5	1	Create, select and apply appropriate techniques, resources and modern engineering.
CO2-PO6	1	Second order differential equations used to describe exponential growth and decay, the population growth of species or the change in investment return over time
CO2-PO7	2	Higher order differential equation models investigate environmental and sustainability issues for example relationship between humans and the forest stock, atomic waste disposal in oceans, refined population forecasting etc.
CO2-PO8	1	Second order differential equation is closely related to subjects such as the philosophy of science, the philosophy of engineering, and the ethics of technology.
CO2-PO9	1	Differential equation helps in calculating rate of change of one variable with respect to other so helps in finding results for individual work.
CO2-PO10	1	Students communicate ideas become objects of reflection, refinement, discussion, and amendment.
CO2-PO11	1	Higher order differential equations are of practical significance to analyze the specific application of Ordinary differential equations in the financial field..
CO2-PO12	2	Recognize the need for lifelong learning in broadest context of technological change.
CO3-PO1	3	Partial differential equations are used to describe the evolution of gases in fluid dynamics, formation of galaxies, describing the nature of quantum mechanics (Schrodinger's Equations).
CO3-PO2	3	Partial differential equation analyse the heat conduction equation and the wave equation and have some knowledge of their applicability.
CO3 -PO3	3	Any phenomena in physical science can be modelled by mathematics. In some situations, these modelling lead us to partial differential equations, the most common type of are, elliptic, parabolic, and hyperbolic equations.
CO3 -PO4	2	Partial differential equations are used to mathematically formulate complex problems , and thus aid the solution of, physical and other problems involving functions of several variables, such as the propagation of heat or sound, fluid flow, waves, elasticity, electrodynamics, etc.
CO3-PO5	1	Partial derivatives are key to target-aware image resizing algorithms which is slightly related to modern IT tool techniques used in engineering.
CO3-PO6	1	The world around us is governed by differential equations, so any scientific computing will generally rely on a differential equation and its numerical solution.
CO3-PO7	1	Every fundamental theory of nature we have found so far can be described by a set of partial differential equations. So the description of our world lies in the solutions of such equations.
CO3-PO8	-	No correlation between CO3-PO8
CO3-PO9	-	No correlation between CO3-PO9
CO3-PO10	1	Partial differential equation has marginal effect on engineering activites and community.
CO3-PO11	1	Partial differential equations -based approaches are nowadays quite standard as pricing models in finance and insurance, always strongly related to stochastic differential equations as in the famous Black–Scholes equation.
CO3-PO12	2	Considerable need for lifelong learning in broadest context of technological change.
CO4-PO1	3	engineering problems can be solved using Complex Variable Theory.
CO4-PO2	3	Some of the elementary problems dealing with applications to electric circuits or mechanical vibrating systems need only elementary knowledge of complex analysis.
CO4 -PO3	3	Use the complex problem to develop the analytic function , residue .
CO4-PO4	2	To solve the complex problem with the help of Cauchy Riemann equation and singularities.
CO4-PO5	1	These functions are useful in study of fluid mechanics, thermodynamics and electric fields.
CO4-PO6	1	To solve the basic problem in mathematics for physics, engineering technology and society .
CO4-PO7	2	Complex variable function used in Advanced problems in heat conduction, fluid flow and electrostatics require knowledge of complex analysis.
CO4-PO8	1	It is now widely recognized that a scientific approach to the environment requires recognition that all things environmental are embedded in complex systems.
CO4-PO9	1	Most important reason for team failure are environmental influences goals and communication is vital for any team to work well.
CO4-PO10	1	The function of complex variable the best to give and receive clear instructions.

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CO4-PO11	1	Demonstrate knowledge of engineering and management principles .
CO4-PO12	2	Recognize the need for life-long learning in broadest context of technological change.

CO5-PO1	3	Vector calculus provides a brief introduction to some of the many applications of vector calculus to physics.
CO5-PO2	3	Vector calculus describing the behavior of physical quantities such as electric fields and the velocity of a fluid are written in terms of the gradient, divergence and curl operators.
CO5 -PO3	3	Vector calculus plays an important role in differential geometry. It is used extensively in physics and engineering, especially in the description of electromagnetic fields, gravitational fields and fluid flow.
CO5 -PO4	2	Vector calculus solves the complex problem Subjects like General Relativity and Quantum Mechanics also use things related to simple vector calculus.
CO5-PO5	1	The vector analysis graphical user interface, a MATLAB based vector analysis visualization too. can be used as a supplementary tool in electromagnetic education
CO5-PO6	1	It is used extensively in physics and engineering, especially in the description of electromagnetic fields, gravitational fields and fluid flow.
CO5-PO7	2	This dynamic applet allows the user to simultaneously plot multiple 3D surfaces, space curves, parametric surfaces, vector fields, contour plots, and more in a freely rotatable graph.
CO5-PO8	1	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
CO5-PO9	1	Most important reason for team failure is environmental influences goals and communication is vital for any team to work well.
CO5-PO10	1	Students communicate ideas become objects of reflection, refinement discussion and amendment.
CO5-PO11	1	Demonstrate knowledge of engineering and management principles.
CO5-PO12	2	Recognize the need for life-long learning in broadest context of technological change.

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ANNEXURE 7

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Internal Assessment-4 [May 2021]

Branch:	CSE-A, CSEDS, IT-B & EX		QUIZ-4
Semester:	Second Semester		Max. Marks-10
Subject:	Engineering Physics	Subject Code: BT-201	Time: 30 Minutes

S.No.	Questions	Marks	Reference of Course Outcomes
1	LASER is abbreviation used for: A) Name of the scientist. B) Light amplification by stimulated emission of radiation. C) Light amplification by spontaneous emission of radiation. D) Light absorption by sun and earth radiation. ANSWER: B	1	CO4
2	The ratio of probabilities of spontaneous emission and stimulated emission is directly proportional to: A) Frequency ν B) ν^2 C) ν^3 D) ν^4 ANSWER: C	1	CO4
3	A Laser beam is monochromatic. It means it has: A) Single frequency B) Narrow width C) Wide width D) Several colour ANSWER: A	1	CO4
4	In He – Ne laser, the most favorable ratio of Helium to neon for satisfactory laser action is: A) 1:7 B) 7:1 C) 1:10 D) 10:1 ANSWER: D	1	CO4
5	The laser used in cancer treatment is: A) Ruby laser B) He – Ne Laser C) CO_2 Laser D) Solid State Laser ANSWER: C	1	CO4
6	Propagation of light through fiber core depends upon phenomenon of A) Interference B) Diffraction C) Polarization D) Total internal reflection ANSWER: D	1	CO4
7	In optical fiber, the relation between the refractive indices of core (n1) and cladding (n2) is: A) n1 = n2 B) n1 >n2 C) n1<n2 D) none of these ANSWER: B	1	CO4

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8	Attenuation losses in optical fibers are generally measured in terms of: A) Nano - second B) pico - second C) micro- second D) decibels ANSWER: D	1	CO4
9	Rayleigh scattering coefficient is proportional to: A) λ B) λ^2 C) $1/\lambda^2$ D) $1/\lambda^4$ ANSWER: C	1	CO4
10	He-Ne laser emits the following wavelength (in A°0): A) 6943 B) 1064 C) 6328 D) 1060 ANSWER: C	1	CO4

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Mid Semester Examination-II
July 2021

Programme	B.Tech.	Semester	II
Subject	Mathematics-II	Subject code	BT-202
Max. Marks	40	Min. Marks	14
Duration	2 Hours	Set	A
Note	(i) Q.1 consist three parts and students will have to attempt any two. (ii) Q.2 consist three parts and students will have to attempt any two. (iii) Q.3 consist two parts and students will have to attempt any one. (iv) Each part carry 08 marks		

Q.No		Question	Marks
1	a	Find $div\,F$ and $Curl\,F$, where $F = grad\left(x^3 + y^3 + z^3 - 3xyz\right)$	8
	b	Find the values of constants a, b, c so that the D.D of $\phi = ax^2y^2 + byz + cz^2x^3$ at $(1, 2, -1)$ has a maximum magnitude 64 in the direction parallel to z-axis.	8
	c	Evaluate $\iint_S F \cdot n\,ds$, where $F = 18z\,i - 12\,j + 3y\,k$ and S is the surface of the plane $2x + 3y + 6z = 12$ in the first octant.	8
2	a	If $f(z)$ is an analytic function of z then prove that $\left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2}\right)\left\|f(z)\right\|^2 = 4\left\|f'(z)\right\|^2$	8
	b	Evaluate: $\int_{1-i}^{2+3i}\left(z^2 + z\right)dz$, along the line joining the point $(1, -1)$ and $(2, 3)$.	8
	c	Use Cauchy's integral formula to evaluate $\int_C \frac{z}{(z-1)(z-2)}\,dz$, where C is the circle $\left\|z - 2\right\| = \frac{1}{2}$	8
3	a	Solve: $x^2p^2 + y^2q^2 = z^2$	8
	b	Solve: $\frac{\partial^2 z}{\partial x^2} - 2\frac{\partial^2 z}{\partial x \partial y} + \frac{\partial^2 z}{\partial y^2} = x^2 + xy + y^2$	8

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Oriental College of Technology, Bhopal
Department of Mechanical Engineering

Assignment-II

SNo	Questions	Reference to Course Outcome
1	Evaluate $\int_{0}^{0.3} x^{1/2} e^{x} dx$, approximately by using a suitable formula	CO2
2	Find $y'(4)$ from the given table : x: 1, 2, 4, 8, 10 $f(x)$: 0, 1, 5, 21, 27	CO2
3	Explain the Gauss Elimination method and solve the system $10x + y + 2z = 13$, $3x + 10y + z = 14$ and $2x + 3y + 10z = 15$	CO2
4	Solve by Jacobi iteration method: $27x + 6y - z = 85$, $6x + 15y + 2z = 72$ and $x + y + 54z = 110$	CO2
5	Solve by Gauss Seidal iteration method: $27x + 6y - z = 85$, $6x + 15y + 2z = 72$ and $x + y + 54z = 110$	CO2

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Tutorial I

S.No	Questions	Reference to Course Outcome
1	Find by Newton-Raphson correct to six place of decimal the root of the equation $x \log_{10} x = 4.77239$.	CO1
2	Prove that $e^x = \left(\frac{\Delta^2}{E}\right)e^x \frac{1}{\Delta^2 e^x}$, the interval of difference being h	CO1
3	Given $y_{20} = 24$, $y_{24} = 32$, $y_{28} = 35$, $y_{32} = 40$. find y_{27} by using Newton Gregory forward interpolation formula.	CO1
4	Represent the function $f(x) = x^4 - 12x^3 + 24x^2 - 30x + 9$ and its successive difference in factorial notation	CO1
5	Evaluate $(12)^{\frac{1}{3}}$ to four decimal places by Newton-Raphson method	CO1

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ANNEXURE 8

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Date: 04/11/2020

Minutes of Departmental Meeting

The following members were present for the departmental meeting held on 3rd November in BS HOD room at 4.05 P.M

S.No	Name of Member		Name of Member
1	Dr. Shivali Verma	17	Dr. Rajeshwari Gaur
2	Dr. Narender Singh	18	Mrs Ritu Dwivedi
3	Dr. Rajesh Khattri	19	Mr.Kamlesh Sahu
4	Dr. Shilpa Kapoor	20	Mr. Anshul Ojha
5	Mr. Pushpraj Gupta	21	Mr. Dishansh
6	Mrs Kiran Gupta	22	Mr. Bijendra Kumar
7	Mrs Asha Gaur	23	Mr.Harish Patel
8	Dr. Meena Choure	24	Mr. Shahnawaz Ansari
9	Mrs Deepali Bharti	25	Mrs. Shreelatha Mohan
10	Dr. Vivek Patel	26	Ms. Anshu Shrivastava
11	Mrs Bhavna shirke	27	Dr.Ganesh Namdeo
12	Mrs Neha Chandrima	28	Ms.Priyanka Rai
13	Mr Sandeep Monga	29	Mr. Isha Nagayach
14	Mr. Pankaj Pandey	30	Mr. Manoj Sharma
15	Ms. Deepti Bansod	31	
16	Ms. Shilpa Chourasiya	32	

Points of discussion:-

1) Discussion on conducting online classes for 1st semester.
2) Formation of student groups as per admission status.
3) Class distribution for 1st semester students.
4) Timetable given for conducting online classes on Google Meet.
5) TGS assigned for students.

Dr. Somendra Gupta
(HOD, BS)

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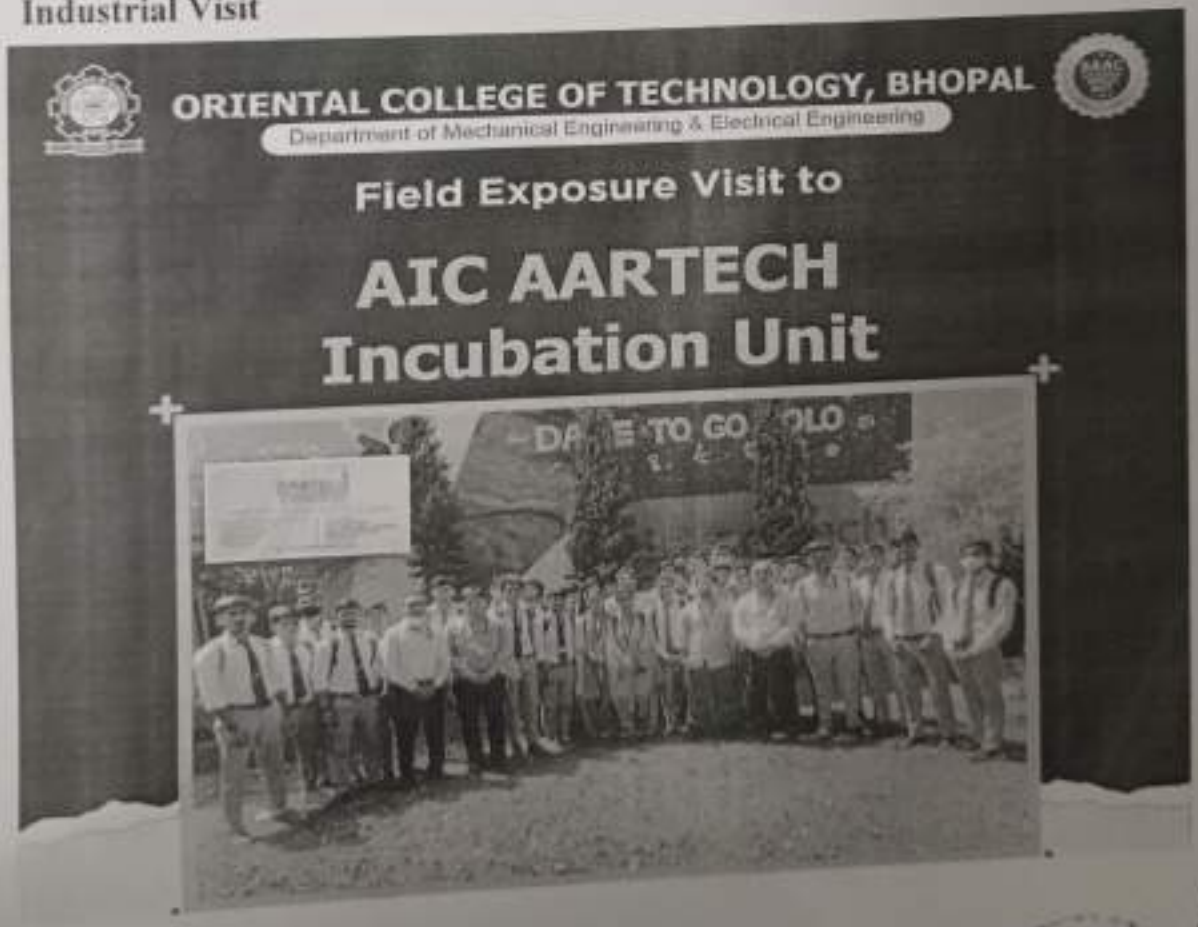
ANNEXURE 10

Industrial Visit



Guest Lectures, Seminar & Workshops

Role plays

ANNEXURE II

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Quality Circle Meeting

Department of Basic Sciences

Tutor Guardian Meeting: Program Year &Semester: B.TECH 2020-24 (CSE-CS /1st sem)
Date:12/01/2021 Time :2:15 to 3:15 PM
Mode of Meeting: Online/Offline: Online
Google meet link :mgd-yhja-mic Name of TG: Dr Shivali Verma &MrArijeet Sarkar

The students of First year were called upon by Prof. Arijeet Sarkar and Dr. Shivali Verma, TG of the class for the first quality circle meeting of this semester for the batch 2020-2024. The meeting was headed by Director Dr. K.K. Dwivedi and attended by IQAC coordinator Dr. AmitaMahor and all Deans/ HODs and concerned faculty members who are handling the courses for these students. Attendance of the students and faculty members who have attended the meeting are also attached for the reference.

The records of discussions are as follows:

Academic Issues :

S. No	Course code and course title	Student Views	Name of Faculty	Faculty views
1	BT 101 Engineering Engineering Chemistry	Satisfactory.	Ms. Ritu Dwivedi	
2	BT102 Mathematics	Satisfactory	Dr. Kamlesh Kumar Sahu	
3	BT103 English for Communication	Satisfactory	Ms. Bhavana Shirke	
4	BT104 Basic Electrical & Electronics Engineering.	Teaching speed is very fast.	Ms. Shravani Mathur	Noted by the concerned person.

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5	BT105 Engineering Graphics	Sometimes camera view not clear More no. of problems should be solved	Mr. Arijeet Sarkar	Will resolve the issue
6	BT106 Manufacturing Practices	Satisfactory	Mr. Manoj Sharma	
5	CRT	Require more number of lectures and remedial classes	Mr. Sandeep Monga	Will arrange after discussion with Time-Table coordinators

General Issues Discussed

S. No	Name of Student & enrollment no.	Problems discussed	Action taken	Remarks
1.	Yash sahu	Scholarship in EWS	Discussion with scholarship cell	
2.	Anubhav Maithili	Offline Bus related	Its only possible when college open fully	
3.	Harsh Negi	Mid Semester Exam dates	Discussion done with examination cell	
4.	Vishal Singh Rathore	Regarding commencement of offline classes	Informed students about the feedback to be taken by students	
5.	Nitin Kushwaha	Regarding College bus facility	Forwarded to HOD	

Dr. Shivali Verma

Prof.Arijeet Sarkar

Signature of TG

Dr. Vandana Jain

HOD

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Quality Circle Meeting

Department of Basic Sciences

Tutor Guardian Meeting:
Date:12/01/2021
Mode of Meeting: Online/Offline: Online
Google meet link :mgd-yhja-mic

Program Year & Semester: B.TECH 2020-24 (CSE-CS/1st sem)
Time : 2:15 to 3:15 PM
Venue (In case offline) :
Name of TG: Prof. Shivali Verma&Prof. Arijeet Sarkar

ATTENDANCE

1. **Faculty attendance**

S.No.	Name of Faculty	Contact no	Email id	Signature
1	Dr. Vandana Jain	9826762654	vandanajain@oriental.ac.in	
2	Dr. AmitaMahor	9425019572	amitamahor@oriental.ac.in	
3	Dr Shivali Verma	9300003125	shivaliatre@oriental.ac.in	
4	MrArijeet Sarkar	7647903383	abhijeetsharkar@oriental.ac.in	
5	Prof. Asha Gaur	9981153339	ashagaur@ oriental.ac.in	

2. **Student attendance**

Total No. of Students : 63

No. of students present : 53

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S.NO.	NAME OF STUDENT	E-MAIL	CONTACT NO.	SIGNATURE
1	AARTI	Parmarsona60gmail. Com	7024920819	PRESENT
2	AAYUSH CHOUHAN	aayushchouhan24@gmail.com	8720003398	PRESENT
3	ABHISHEK BHILALA			ABSENT
4	ABHISHEK VEMRA	masoom9630@gmail.com	8602328929	PRESENT
5	ADITYA AKASH		6262974884	ABSENT
6	ADITYA KUMAR SHRIVASTAVA	aditya.shri.872@gmail.com	7869817770	PRESENT
7	AINAAN NASIR	ainaannasir28@gmail.com	7987358828	PRESENT
8	AJINKYA ASATI	Ajinkyaasati@gmail.com	9111456505	PRESENT
9	AKASH SONI	akashsoni9926@gmail.com	9516767703	PRESENT
10	AKSHAT SHARMA	amakshatsharma@gmail.com	6232986896	ABSENT
11	AKSHAY RAI	akshayrai854@gmail.com	9770323649	ABSENT
12	ALMAZ ALAM	almazalam123@gmail.com	9993914345	PRESENT
13	AMIR ALI	amirali9516767703@gmail.com	7828741120	PRESENT
14	ANIRUDH DESHPANDE	anirudhdeshpande872@gmail.com	6261871986	PRESENT
15	ANKUR PRAJAPATI	ankursingh77720@gmail.com	9109466908	PRESENT
16	ANUBHAV MAITHIL	anubhavmaithiloct@gmail.com	7898267256	PRESENT
17	ARYAN GUPTA	Garyan893@gmail.com	7470585670	PRESENT
18	AYUSH KUMAR SINGH	ayu0603045@gmail.com		ABSENT
19	AYUSH PANDEY		9893738988	PRESENT
20	AYUSHI TOMAR	ayushitomarst4@gmail.com	8719001155	PRESENT
21	BHOOMIKA SHARMA	bhoomika.sharma023@gmail.com	8602328929	PRESENT
22	DEEPAK KUMAR SAIN	k.9490472514@gmail.com	9893738988	PRESENT
23	DEEPANSHU SHUKLA	shukladeepanshu830@gmail.com	7470585670	PRESENT
24	HARDIK SHARMA	Hardiksharma898@gmail.com	9893738988	PRESENT
25	HARSH NEGI	negiharsh1209@gmail.com	8719001155	PRESENT
26	HARSH SONARE	harshsonare921@gmail.com	6265924552	PRESENT
27	HARSHI VERMA	sv0666919@gamil.com	9131404039	PRESENT
28	HIMANSHU TRIPATHI			ABSENT
29	ISHAAN	Ishaanchourasia84@gmail.com	6267266598	PRESENT

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30	JAY CHOUKIKAR	jaichoukikar27@gmail.com		
31	KASHYAP BISEN	bisenkashyap@gmail.com	7440843616	PRESENT
32	MAYANK SHARMA	mayanksharmabpl0@gmail.com	9285114937	PRESENT
33	MD SHADAB		9827072725	PRESENT
34	MOHAMMADI ALI			PRESENT
35	NIKHIL AHIRWAR	ahirwarnikhil204@gmail.com		PRESENT
36	NITIN KUSHWAHA	nitinkushwaha007788@gmail.com	7225083954	PRESENT
37	POORVI TAILANG	tailangpoorvi08@gmail.com	7089941532	PRESENT
38	PRAGYA JAIN	jainpragya325@gmail.com	9340738310	PRESENT
39	PRATHAM SARANKAR	pratham.sarankar123@gmail.com	7440311367	PRESENT
40	PRINCE SINGH SIKARWAR	Princesinghsikarwar11@gmail.com	9893333654	PRESENT
41	PUSHPRAJ	pk8600694@gmail.com	8817214590	PRESENT
42	RHYTHUM TIKARYA	tikaryar@gmail.com	7985401865	PRESENT
43	RITIK GUPTA	ritikg290@gmail.com	9752364006	PRESENT
44	S. REHBAR HUSAIN NAQVI		7978980094	PRESENT
45	SACHIN GOSWAMI	sachinchp17@gmail.com	8718998365	PRESENT
46	SAGAR GUPTA	sagupta6261gar@gmail.com		PRESENT
47	SAGAR SAHU	sagarsahuji21@gmail.com	6261104599	PRESENT
48	SAJAL KUMAR HADE		7441115163	PRESENT
49	SAKSHI AHIRWAR	sakshiahirwar36@gmail.com		PRESENT
50	SAMEER KHAN	Sameerkhan03044@gmail.com	7879293868	ABSENT
51	SAMRIDDHI CHOUDHARY	sheenuchoudhary133@gmail.com	9755679837	PRESENT
52	SATYAM SAHU	Ssahu7158@gmail.com	9301768120	PRESENT
53	SAURAV SHARMA	sharmasaurav150503@gmail.com		PRESENT
54	SHANTANU TOMAR	Shantanutomar3103@gmail.com	+918873274641	PRESENT
55	SHIVAM KUMAR	mishrashivam7233992@gmail.com	7999925825	PRESENT
56	SHIVAM MISHRA	mishrajishivam8@gmail.com	7281828616	PRESENT
57	SHIVAM MISHRA	kumarshivam95074@gmail.com	9431955744	ABSENT
58	SNEHA JAIN	snehajain242002@gmail.com	09302647283	PRESENT
59	SUMIT	rickygenisys5683@gmail.com	8989979779	PRESENT
60	SWAPNIL NIKAM	sumitk12365@gmail.com	7488217521	PRESENT
			9302188288	PRESENT

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61	VISHAL SINGH RATHORE	vishu.s9811@gmail.com	7617329811	ABSENT
62	VIVEK YADAV	vivekyadav06112002@gmail.com	+91 82694 73215	PRESENT
63	YASH SAHU	sahuyash2001@gmail.com	9098726006	ABSENT

Dr Shivali Verma

Mr Arijeet Sarkar

Signature of TG

Dr Vandana Jain

HOD

Director
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ANNEXURE 10

EXPERT LECTURE

Department of Electronics and Communication Engineering conducted two days Webinar on "Role of Technical Education in Rural Development" under Unnat Bharat Abhiyan from 1st October – 2nd June 2021

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ANNEXURE 14

ORIENTAL COLLEGE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS & COMMUNICATION

MAJOR PROJECT LIST , EC VIII Semester, Session: Jan June 2021

Group No.	Name of Student	Enrollment No	Guide Name	Project Name
Group No. 1	Ankit	0126EC171008	Mrs. Vasundhara Shukla	Auto Temperature Detection at Entrance for COVID Safety
	Ankit kumar	0126EC171009		
	Ashish Kumar	0126EC171010		
	Pavan Trivedi	0126EC171019		
	Yash geda	0126EC171026		
Group No. 2	Animesh Nandan	0126EC171006	Dr. Sandeep Garg	UV Disinfecting Tunnel
	Mariyam Ali Khan	0126EC171017		
	Syed Hamza Husain	0126EC171025		
	Nikita Gupta	0126EC171018		
	Stuti Pateriya	0126EC171023		
Group No. 3	Harsh Behere	0126EC171012	Mr. Akhilesh Jain	Health Monitoring System
	Juhi Awasthi	0126EC171015		
	Kajal Wani	0126EC171016		
Group No. 4	Anjali Battra	0126EC171007	Mr. Lalit Jain	Smart Dustbin with IoT Notifications
	Sandhya Tiwari	0126EC171020		
	Supriya patel	0126EC171024		
	Prajjwal Sarwaikar	0126EC161064		
Group No. 5	Abhishek Prasad	0126EC171001	Mrs. Mraduraje Sisodiya	Line Follower
	Amit sahu	0126EC171005		
	Harshal Saiyam	0126EC171013		
	Dheeraj Malviya	0126EC171011		
	Deep Meher	0126EC183D02		
Group No. 6	Amaresh ojha	0126EC171004	Mr. Amish Ku. Jha	Accident & Alcohol detection system
	Himanshu Rahangdale	0126EC171014		
	Saurabh Singh	0126EC171021		
	Shubham Singh	0126EC171022		
Group No. 7	Adarsh Pathak	0126EC171002		Not Decided Yet

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ANNEXURE 13

ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

DEPARTMENT -Basic science

Session: January-June 2021

List of Slow Learner

Annexure-7

Subject Name and Code: Engineering Physics (BT-201)

Branch: CSE-DS Semester: 1 Section: A

Name of Faculty: Dr. Narender Singh(NS)

S.No.	Enrollment No.	Name of Student	MST-1 Marks (20)	Commulative Internal Assessment Marks Before MST-1(20)	Action Taken	MST-2 Marks(20)	Commulative Internal Assessment Marks Before MST-1(30)	Action Taken
1	0126CD201028	MEHAR FATIMA	0	11	REMADIAL CLASS	15	11	REMADIAL CLASS
2	0126CD201013	ARISH KHAN	0	12	REMADIAL CLASS	14	12	REMADIAL CLASS
3	0126CD201003	ADITI PATEL	10	11	REMADIAL CLASS	11	21	REMADIAL CLASS
4	0126CD201055	SUMIT WIDHANI	5	12	REMADIAL CLASS	10	22	REMADIAL CLASS
5	0126CD201047	ROHIT VISHWAKARMA	10	13	REMADIAL CLASS	13	21	REMADIAL CLASS
6	0126CD201048	ROYAL RAJ PRAKASH	10	15	REMADIAL CLASS	12	21	REMADIAL CLASS

Signature of Faculty

ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

DEPARTMENT -Basic science

Session: January-June 2021

List of Advance Learner

Annexure-7

Branch: CSE-DS Semester: I Section: A Subject Name and Code :Engineering Physics(BT-201)

S.No.	Enrollment No.	Name of Student	MST-1 Marks (20)	Commulative Internal Assessment Marks Before MST-1(20)	Action Taken	MST-2 Marks(20)	Commulative Internal Assessment Marks Before MST-1(30)	Action Taken
1	0126CD201004	Aditya Raput	17	13	Guest lecture	14	28	Expert talk
2	0126CD201007	Aman Anand	17	11	Guest lecture	19	24	Expert talk
3	0126CD201012	Anuj Khare	17	10	Guest lecture	15	26	Expert talk
4	0126CD201014	Basant Saurava	17	5	Guest lecture	16	27	Expert talk
5	0126CD201022	Ekta jain	17	10	Guest lecture	16	25	Expert talk
6	0126CD201023	Javeria sameen sayyed Salimuddin	17	11	Guest lecture	18	26	Expert talk
7	0126CD201008	Aman Kumar mishra	16	12	Guest lecture	15	23	Expert talk
8	0126CD201009	Aman raghuwanshi	16	10	Guest lecture	18	26	Expert talk
9	0126CD201017	Devashish Kumar Dandpat	16	5	Guest lecture	18	26	Expert talk
10	0126CD201018	Devvrat	16	11	Guest lecture	15	27	Expert talk
11	0126CD201024	Anwar Ali Khan	16	10	Guest lecture	12	24	Expert talk
12	0126CD201025	Kumar Chaitanya	16	9	Guest lecture	17	26	Expert talk
13	0126CD201027	Md Tausif Ansari	16	11	Guest lecture	16	24	Expert talk
14	0126CD201030	Mohit kanojiya	16	10	Guest lecture	17	23	Expert talk
15	0126CD201032	Parth kotwe	16	10	Guest lecture	15	21	Expert talk
1	0126CD201040	RAJ RAGHUWANSHI	18	13	Guest lecture	14	28	Expert talk
2	0126CD201054	SAURABH TIWARI	18	11	Guest lecture	19	24	Expert talk
3	0126CD201061	**VAIBHAV WAGH**	18	10	Guest lecture	15	26	Expert talk
4	0126CD201027	PULKIT	17	5	Guest lecture	16	27	Expert talk
5	0126CD201039	RAJ JAIN	17	10	Guest lecture	16	25	Expert talk
6	0126CD201033	PARUL GUPTA	16	11	Guest lecture	18	26	Expert talk
7	0126CD201034	PIYUSH PRATIK	16	12	Guest lecture	15	23	Expert talk
8	0126CD201036	PRIYESH SAKRE	16	10	Guest lecture	18	26	Expert talk
9	0126CD201041	RANJEET KUMAR DUB	16	5	Guest lecture	18	26	Expert talk
10	0126CD201044	RIYA TIWARI	16	11	Guest lecture	15	27	Expert talk
11	0126CD201045	ROHIT MEWADA	16	10	Guest lecture	12	24	Expert talk
12	0126CD201058	TARUN KUMAR ROY	16	9	Guest lecture	17	26	Expert talk

Signature of Faculty

Branch: CSE-DS Semester: I Section: A Subject Name and Code: Engineering Maths - II(BT-202)

Name of Faculty: Dr. Sonendra Gupta(SG)

S.No.	Enrollment No.	Name of Student	MST-1 Marks (20)	Commulative Internal Assessment Marks Before MST-1(20)	Action Taken	MST-2 Marks(20)	Commulative Internal Assessment Marks Before MST-1(30)	Action Taken
1	0126CD201001	Abhishek kushwaha	20	20	Guest lecture	20	28	Expert talk
2	0126CD201002	Abhishek pable	20	20	Guest lecture	20	26	Expert talk
3	0126CD201003	Aditi Patel	18	19	Guest lecture	20	24	Expert talk
4	0126CD201004	Aditya Rajput	20	20	Guest lecture	20	25	Expert talk
5	0126CD201005	Aishwarya kumar	19	20	Guest lecture	20	23	Expert talk
6	0126CD201006	Akhtar	20	20	Guest lecture	20	25	Expert talk
7	0126CD201007	Aman Anand	20	18	Guest lecture	20	27	Expert talk
8	0126CD201008	Aman Kumar mishra	18	17	Guest lecture	20	26	Expert talk
9	0126CD201009	Aman raghuwanshi	20	16	Guest lecture	20	23	Expert talk
10	0126CD201011	Anjali yadav	20	15	Guest lecture	18	24	Expert talk
11	0126CD201012	Anuj Khare	16	16	Guest lecture	20	26	Expert talk
12	0126CD201013	Arish khan	20	18	Guest lecture	20	23	Expert talk
13	0126CD201014	Basant Saurava	20	16	Guest lecture	20	22	Expert talk
14	0126CD201015	Bhanu dangi	20	15	Guest lecture	19	21	Expert talk
15	0126CD201016	Devansh Sahu	20	18	Guest lecture	20	24	Expert talk
16	0126CD201017	Devashish Kumar Dandpat	20	16	Guest lecture	20	25	Expert talk
17	0126CD201018	Devvrat	20	15	Guest lecture	20	26	Expert talk
18	0126CD201019	Diwakar mishra	20	18	Guest lecture	20	23	Expert talk
19	0126CD201020	DiyaTomar	20	18	Guest lecture	20	24	Expert talk
20	0126CD201021	Dubey Arya	20	17	Guest lecture	20	26	Expert talk
21	0126CD201022	Ekta jain	20	18	Guest lecture	19	24	Expert talk
22	0126CD201023	Javeria sameen sayyed Salimuddin	20	16	Guest lecture	19	25	Expert talk
23	0126CD201024	Anwar Ali Khan	20	18	Guest lecture	20	21	Expert talk
24	0126CD201025	Kumar Chaitanya	20	18	Guest lecture	20	24	Expert talk
25	0126CD201026	kunal saxena	20	14	Guest lecture	20	26	Expert talk
26	0126CD201027	Md Tausif Ansari	20	16	Guest lecture	20	27	Expert talk
27	0126CD201028	Mehar Fatima	20	18	Guest lecture	20	26	Expert talk
28	0126CD201029	Modh Wasi Khan	20	16	Guest lecture	18	27	Expert talk
29	0126CD201030	Mohit kanojiya	20	13	Guest lecture	20	24	Expert talk
30	0126CD201031	Nitya Shukla	20	15	Guest lecture	20	25	Expert talk
31	0126CD201032	Parth kotwe	20	18	Guest lecture	20	26	Expert talk
1	0126CD201055	SUMIT WIDHANI	20	20	Guest lecture	20	28	Expert talk
2	0126CD201053	SATYA PRAKASH SON	20	20	Guest lecture	20	26	Expert talk
3	0126CD201040	RAJ RAGHUWANSHI	20	19	Guest lecture	20	24	Expert talk
4	0126CD201054	SAURABH TIWARI	20	20	Guest lecture	20	25	Expert talk
5	0126CD201061	VAIBHAV WAGH	20	20	Guest lecture	20	23	Expert talk
6	0126CD201037	PULKIT	20	20	Guest lecture	20	25	Expert talk
7	0126CD201039	RAJ JAIN	20	18	Guest lecture	20	27	Expert talk
8	0126CD201033	PARUL GUPTA	20	17	Guest lecture	20	26	Expert talk
9	0126CD201034	PIYUSH PRATIK	20	16	Guest lecture	20	23	Expert talk
10	0126CD201036	PRIYESH SAKRE	20	15	Guest lecture	18	24	Expert talk
11	0126CD201041	RANJEET KUMAR DUB	20	16	Guest lecture	20	26	Expert talk
12	0126CD201044	RIYA TIWARI	20	18	Guest lecture	20	23	Expert talk

13	0126CD201045	ROHIT MEWADA	20	16	Guest lecture	20	22	Expert talk
14	0126CD201058	TARUN KUMAR BOV	20	15	Guest lecture	19	21	Expert talk
15	0126CD201035	PREETAM AHIRWAR	20	18	Guest lecture	20	24	Expert talk
16	0126CD201050	SANJAY SINGH	20	16	Guest lecture	20	25	Expert talk
17	0126CD201057	TANMAY KUMAR MON	20	15	Guest lecture	20	26	Expert talk
18	0126CD201063	VIVEK CHOUHAN	20	18	Guest lecture	20	23	Expert talk
19	0126CD201043	RIYA RAJ	20	18	Guest lecture	20	24	Expert talk
20	0126CD201052	SANYAM PALANDE	20	17	Guest lecture	20	26	Expert talk
21	0126CD201059	UJJWAL SHUKLA	20	18	Guest lecture	19	24	Expert talk
22	0126CD201042	RITIK RAGHUWANSHI	20	16	Guest lecture	19	25	Expert talk
23	0126CD201038	RACHIT JAIN	20	18	Guest lecture	20	21	Expert talk
24	0126CD201056	SUYASH GUPTA	20	18	Guest lecture	20	24	Expert talk
25	0126CD201060	VAIBHAV JOSHI	20	14	Guest lecture	20	26	Expert talk
26	0126CD201062	VIKASH KUMAR	20	16	Guest lecture	20	27	Expert talk
27	0126CD201049	RUPALI DEVDA	20	18	Guest lecture	20	26	Expert talk
28	0126CD201051	SANJEEV KUMAR DWI	20	16	Guest lecture	18	27	Expert talk
29	0126CD201047	ROHIT VISHWAKARM	20	13	Guest lecture	20	24	Expert talk
30	0126CD201048	ROYAL RAJ PRAKASH	20	15	Guest lecture	20	25	Expert talk

Subject Name and Code: BME (BT-205)

Section: A

Branch: CSE-DS Semester: I

Name of Faculty: Prof. Karan Verma (KV)

S.No.	Enrollment No.	Name of Student	MST-1 Marks (20)	Commulative Internal Assessment Marks Before MST-1(20)	Action Taken	MST-2 Marks(20)	Commulative Internal Assessment Marks Before MST-1(30)	Action Taken
1	0126CD201015	Bhanu dangi	20	20	Guest lecture	19	24	Expert talk
2	0126CD201017	Devashish Kumar Dangpat	20	20	Guest lecture	19	25	Expert talk
3	0126CD201001	Abhishek kushwaha	19	18	Guest lecture	20	21	Expert talk
4	0126CD201002	Abhishek pable	19	19	Guest lecture	19	24	Expert talk
5	0126CD201003	Aditi Patel	19	17	Guest lecture	20	26	Expert talk
6	0126CD201004	Aditya Rajput	19	16	Guest lecture	19	27	Expert talk
7	0126CD201005	Aishwarya kumar	19	18	Guest lecture	18	26	Expert talk
8	0126CD201006	Akhtar	19	14	Guest lecture	19	27	Expert talk
9	0126CD201007	Aman Anand	19	16	Guest lecture	20	24	Expert talk
10	0126CD201008	Aman Kumar mishra	19	16	Guest lecture	19	25	Expert talk
11	0126CD201009	Aman raghuwanshi	19	17	Guest lecture	20	26	Expert talk
12	0126CD201012	Anuj Khare	19	16	Guest lecture	18	26	Expert talk
13	0126CD201013	Arish khan	19	18	Guest lecture	19	27	Expert talk
14	0126CD201014	Basant Sauraiya	19	19	Guest lecture	19	24	Expert talk
15	0126CD201016	Devansh Sahu	19	18	Guest lecture	19	25	Expert talk
16	0126CD201018	Devvrat	19	16	Guest lecture	19	26	Expert talk
17	0126CD201019	Diwakar mishra	19	14	Guest lecture	20	23	Expert talk
18	0126CD201020	DiyaTomar	19	16	Guest lecture	17	26	Expert talk
19	0126CD201021	Dubey Arya	19	15	Guest lecture	19	27	Expert talk
20	0126CD201022	Ekta jain	19	15	Guest lecture	20	24	Expert talk

21	0126CD201023	Javeria sameen sayyed Salimuddin	19	18	Guest lecture	19	25	Expert talk
22	0126CD201024	Anwar Ali Khan	19	15	Guest lecture	18	26	Expert talk
23	0126CD201025	Kumar Chaitanya	19	15	Guest lecture	19	26	Expert talk
24	0126CD201026	kunal saxena	19	16	Guest lecture	19	23	Expert talk
25	0126CD201027	Md Tausif Ansari	19	17	Guest lecture	19	26	Expert talk
26	0126CD201028	Mehar Fatima	19	18	Guest lecture	18	27	Expert talk
27	0126CD201029	Modh Wasi Khan	19	19	Guest lecture	19	24	Expert talk
28	0126CD201030	Mohit kanojiya	19	18	Guest lecture	19	25	Expert talk
29	0126CD201031	Nitya Shukla	19	18	Guest lecture	17	26	Expert talk
30	0126CD201032	Parth kotwe	19	18	Guest lecture	19	27	Expert talk
31	0126CD201011	Anjali yadav	17	16	Guest lecture	18	24	Expert talk
1	0126CD201038	RACHIT JAIN	20	20	Guest lecture	19	24	Expert talk
2	0126CD201055	SUMIT WIDHANI	19	20	Guest lecture	19	25	Expert talk
3	0126CD201053	SATYA PRAKASH SON	19	18	Guest lecture	20	21	Expert talk
4	0126CD201040	RAJ RAGHUWANSHI	19	19	Guest lecture	19	24	Expert talk
5	0126CD201054	SAURABH TIWARI	19	17	Guest lecture	20	26	Expert talk
6	0126CD201061	**VAIBHAV WAGH**	19	16	Guest lecture	19	27	Expert talk
7	0126CD201037	PULKIT	19	18	Guest lecture	18	26	Expert talk
8	0126CD201039	RAJ JAIN	19	14	Guest lecture	19	27	Expert talk
9	0126CD201033	PARUL GUPTA	19	16	Guest lecture	20	24	Expert talk
10	0126CD201034	PIYUSH PRATIK	19	16	Guest lecture	19	25	Expert talk
11	0126CD201036	PRIYESH SAKRE	19	17	Guest lecture	20	26	Expert talk
12	0126CD201041	RANJEET KUMAR DUB	19	16	Guest lecture	18	26	Expert talk
13	0126CD201044	RIYA TIWARI	19	18	Guest lecture	19	27	Expert talk
14	0126CD201045	ROHIT MEWADA	19	19	Guest lecture	19	24	Expert talk
15	0126CD201058	TARUN KUMAR ROY	19	18	Guest lecture	19	25	Expert talk
16	0126CD201035	PREETAM AHIRWAR	19	16	Guest lecture	19	26	Expert talk
17	0126CD201050	SANJAY SINGH	19	14	Guest lecture	20	23	Expert talk
18	0126CD201057	TANMAY KUMAR MON	19	16	Guest lecture	17	26	Expert talk
19	0126CD201063	VIVEK CHOUHAN	19	15	Guest lecture	19	27	Expert talk
20	0126CD201043	RIYA RAJ	19	15	Guest lecture	20	24	Expert talk
21	0126CD201052	SANYAM PALANDI	19	18	Guest lecture	19	25	Expert talk
22	0126CD201059	UJJWAL SHUKLA	19	15	Guest lecture	18	26	Expert talk
23	0126CD201042	RITIK RAGHUWANSH	19	15	Guest lecture	19	26	Expert talk
24	0126CD201056	SUYASH GUPTA	19	16	Guest lecture	19	23	Expert talk
25	0126CD201060	VAIBHAV JOSHI	19	17	Guest lecture	19	26	Expert talk
26	0126CD201062	VIKASH KUMAR	19	18	Guest lecture	18	27	Expert talk
27	0126CD201049	RUPALI DEVDA	19	19	Guest lecture	19	24	Expert talk
28	0126CD201051	SANJEEV KUMAR DW	19	18	Guest lecture	19	25	Expert talk
29	0126CD201047	ROHIT VISHWAKARM	19	18	Guest lecture	17	26	Expert talk
30	0126CD201048	ROYAL RAJ PRAKASH	19	18	Guest lecture	19	27	Expert talk

Signature of Faculty

Section: A

Subject Name and Code: BCEM (BT-204)

Branch: CSE-DS Semester: I

Name of Faculty: Prof.Saumitra

COLLEGE OF TECHNOLOGY

S.No.	Enrollment No.	Name of Student	MST-1 Marks (20)	Commulative Internal Assessment Marks Before MST-1(20)	Action Taken	MST-2 Marks(20)	Commulative Internal Assessment Marks Before MST-1(30)	Action Taken
1	0126CD201016	Devansh Sahu	20	20	Guest lecture	19	25	Expert talk
2	0126CD201015	Bhanu dangi	19	19	Guest lecture	19	26	Expert talk
3	0126CD201007	Aman Anand	19	18	Guest lecture	20	23	Expert talk
4	0126CD201012	Anuj Khare	19	20	Guest lecture	19	26	Expert talk
5	0126CD201021	Dubey Arya	19	17	Guest lecture	20	27	Expert talk
6	0126CD201017	Devashish Kumar Dandpat	18	16	Guest lecture	19	24	Expert talk
7	0126CD201001	Abhishek kushwaha	18	18	Guest lecture	18	25	Expert talk
8	0126CD201005	Aishwarya kumar	18	19	Guest lecture	19	26	Expert talk
9	0126CD201009	Aman raghuwanshi	18	15	Guest lecture	20	26	Expert talk
10	0126CD201014	Basant Saurava	18	16	Guest lecture	19	23	Expert talk
11	0126CD201022	Ekta jain	18	14	Guest lecture	20	26	Expert talk
12	0126CD201023	Javeria sameen sayyed Salimuddin	18	18	Guest lecture	18	27	Expert talk
13	0126CD201026	kunal saxena	18	16	Guest lecture	19	24	Expert talk
14	0126CD201028	Mehar Fatima	18	18	Guest lecture	19	25	Expert talk
15	0126CD201032	Parth kotwe	18	16	Guest lecture	19	26	Expert talk
16	0126CD201002	Abhishek pable	17	15	Guest lecture	19	27	Expert talk
17	0126CD201003	Aditi Patel	17	16	Guest lecture	20	26	Expert talk
18	0126CD201018	Devvrat	17	15	Guest lecture	17	27	Expert talk
19	0126CD201030	Mohit kanojiya	17	14	Guest lecture	19	24	Expert talk
20	0126CD201006	Akhtar	16	16	Guest lecture	20	25	Expert talk
21	0126CD201008	Aman Kumar mishra	16	18	Guest lecture	19	26	Expert talk
22	0126CD201013	Arish khan	16	14	Guest lecture	18	27	Expert talk
23	0126CD201027	Md Tausif Ansari	16	15	Guest lecture	19	26	Expert talk
24	0126CD201031	Nitya Shukla	16	16	Guest lecture	19	27	Expert talk
1	0126CD201061	**VAIBHAV WAGH**	20	20	Guest lecture	19	25	Expert talk
2	0126CD201033	PARUL GUPTA	20	19	Guest lecture	19	26	Expert talk
3	0126CD201050	SANJAY SINGH	20	18	Guest lecture	20	23	Expert talk
4	0126CD201040	RAJ RAGHUWANSHI	19	20	Guest lecture	19	26	Expert talk
5	0126CD201054	SAURABH TIWARI	19	17	Guest lecture	20	27	Expert talk
6	0126CD201044	RIYA TIWARI	19	16	Guest lecture	19	24	Expert talk
7	0126CD201058	TARUN KUMAR ROY	19	18	Guest lecture	18	25	Expert talk
8	0126CD201035	PREETAM AHIRWAR	19	19	Guest lecture	19	26	Expert talk
9	0126CD201043	RIYA RAJ	19	15	Guest lecture	20	26	Expert talk
10	0126CD201039	UJJWAL SHUKLA	19	16	Guest lecture	19	23	Expert talk
11	0126CD201041	RANJEET KUMAR DUB	18	14	Guest lecture	20	26	Expert talk
12	0126CD201045	ROHIT REWADA	18	18	Guest lecture	18	27	Expert talk
13	0126CD201057	TANMAY KUMAR MON	18	16	Guest lecture	19	24	Expert talk
14	0126CD201042	RITIK RAGHUWANSHI	18	18	Guest lecture	19	25	Expert talk
15	0126CD201047	ROHIT VISHWAKARM	18	16	Guest lecture	19	26	Expert talk
16	0126CD201038	RACHIT JAIN	17	15	Guest lecture	19	27	Expert talk
17	0126CD201053	SATYA PRAKASH SON	17	16	Guest lecture	20	26	Expert talk
18	0126CD201037	PULKIT	17	15	Guest lecture	17	27	Expert talk
19	0126CD201036	RAJ JAIN	17	14	Guest lecture	19	24	Expert talk

20	0126CD201063	VIVEK CHOUHAN	17	16	Guest lecture	20	25	Expert talk
21	0126CD201055	SUMIT WIDHANI	16	18	Guest lecture	19	26	Expert talk
22	0126CD201034	PIYUSH PRATIK	16	14	Guest lecture	18	27	Expert talk
23	0126CD201052	SANYAM PALANDI	16	15	Guest lecture	19	26	Expert talk
24	0126CD201049	RUPALI DEVDA	16	16	Guest lecture	19	27	Expert talk

Branch: CSE-DS Semester: I Section: A Subject Name and Code: BCE (BT-205)

Name of Faculty: Prof.Amar nayak

S.No.	Enrollment No.	Name of Student	MST-1 Marks (20)	Commulative Internal Assessment Marks Before MST-1(20)	Action Taken	MST-2 Marks(20)	Commulative Internal Assessment Marks Before MST-1(30)	Action Taken
1	0126CD201061	VAIBHAV WAGH	18	19	Guest lecture	19	26	Expert talk
2	0126CD201040	RAJ RAGHUWANSHI	18	18	Guest lecture	20	23	Expert talk
3	0126CD201054	SAURABH TIWARI	18	20	Guest lecture	19	26	Expert talk
4	0126CD201044	RIYA TIWARI	18	17	Guest lecture	20	27	Expert talk
5	0126CD201058	TARUN KUMAR ROY	18	16	Guest lecture	19	24	Expert talk
6	0126CD201045	ROHIT MEWADA	18	18	Guest lecture	18	25	Expert talk
7	0126CD201037	PULKIT	18	19	Guest lecture	19	26	Expert talk
8	0126CD201059	UTTWAL SHUKLA	17	15	Guest lecture	20	26	Expert talk
9	0126CD201057	TANMAY KUMAR MON	17	16	Guest lecture	19	23	Expert talk
10	0126CD201047	ROHIT VISHWAKARM	17	14	Guest lecture	20	26	Expert talk
11	0126CD201039	RAJ JAIN	17	18	Guest lecture	18	27	Expert talk
12	0126CD201035	PREETAM AHIRWAR	16	16	Guest lecture	19	24	Expert talk
13	0126CD201041	RANJEET KUMAR DUB	16	18	Guest lecture	19	25	Expert talk
14	0126CD201042	RITIK RAGHUWANSHI	16	16	Guest lecture	19	26	Expert talk
15	0126CD201060	VAIBHAV JOSHI	16	15	Guest lecture	19	27	Expert talk

ANNEXURE 15

Phone No.: 0755-2529011, 2529016
Fax: 0755-2529472
E-mail: [illegible]
Website: [illegible]

ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

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Oriental Campus, Raisen Road, Bhopal-462021 (MP) INDIA

Date: 15/02/2021

Department of Basic Sciences

Notice for first Semester Remedial classes

The first semester students (SET-A and SET-B) are informed that the remedial classes to be held 21/02/2021 to 25/02/2021. All are instructed to note down the time from the notice and attend the classes on regular basis.

HOD, BS

Copy for information:

1. Chairman, OGI
2. Director, OCT
3. All HODs
4. Students Notice Board.

Phone No: 0755-2529615, 2529816
Fax: 0755-2529472
E-mail: director@oct.oriental.ac.in
Website: www.oriental.ac.in/oct.html

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Date: 08/07/2021

Department of Basic Sciences

Notice for first Semester Remedial classes

The first semester students (SET-A and SET-B) are informed that the remedial classes to be held 12/07/2021 to 17/07/2021. All are instructed to note down the time from the notice and attend the classes on regular basis.

HOD, BS

Copy for information:

1. Chairman, OGI
2. Director, OCT
3. All HODs
4. Students Notice Board.

ORIENTAL COLLEGE OF TECHNOLOGY

ANNEXURE 17

Phone No.-0755-2529015, 2529016
Fax: 0755-2529472
E-mail: directoroct@oriental.ac.in
Website: www.oriental.ac.in/oct-bhopal

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Oriental Campus, Raisen Road, Bhopal-462021 (MP) INDIA

Ref. : OCT/IQAC/ 2021/REV **Date: 25/02/2021**

GENERAL GUIDELINES FOR PROCTOR SYSTEM/TUTOR GUARDIAN SYSTEM

Objective: In order to monitor the progress of the student on all fronts especially in academic and to assist them in the right direction in case they need, on one to one basis under the guidance of the Director/Principal has been formed.

Eligibility: Any faculty who is on permanent roll of the institute and fulfilling the AICTE norms for faculty position.

Norms: At the beginning each and every semester the HOD is need to allocate per TG 30 Nos. of students. And in case if the strength of students in particular semester is more than 30, then the head TG (Senior faculty amongst TG) should also appoint, who will be responsible for the coordination amongst TGs of the same class.

Responsibilities: Proctor and tutor guardian will be responsible for the following:

1. Need to maintain the academic and personal records of the students as per the attached format **Annexure 1.** TGs are also requested to make the summary form of student details as per attached **Annexure 2**.
2. Will put his / her efforts for the academic and overall growth of the students.
3. Will do the counselling as and when required.
4. Will be in continuous touch with the students and parents.
5. Will try to resolve the grievances of the students and in case if required then connect the students to the appropriate authority.
6. Will compile the attendance of the students two times in a semester one is before mid sem 1 & other one is before Mid sem 2. After compiling the attendance it has to be signed by TG and HOD as well and should display on notice board at-least two days before start of mid sem. Use **annexure 3** for the format.
7. Will compile the academic monitoring (use **annexure 4** for the format) two times in a semester one is before mid sem 1 & other one is before mid sem 2 to have the look of course coverage. It should signed by TG and HOD and should keep into departmental file. In case of slow coverage the HOD need to take appropriate measures and record that discussions in writing.
8. The compilation of mid sem 1 & 2 will be done by the TG as per the attached format in **annexure 5**.
9. The mid sem 1 & 2 result analysis will also need to be compiled by TG and the copy of the same need to be shared with HOD and exam cell. Use **annexure 6** for the same.
10. The list of **slow learners** will be identified subject wise and it will be based on the mid sem result analysis and other internal evaluation (The students having less than 60% marks in the particular subject will be treated as slow learners and students having more than 80% marks will be treated as advance learners in the subject) These list need to be identified and share with HOD and concerned subject teacher in writing. Format is attached to prepare the list of slow learners in **annexure 7**.
11. End term exam result analysis will also compiled by TG and the copy of the same will be send to HOD and exam cell as well. Use **annexure 8**.
12. Compilation of sessional marks at the end of session is also done by TG. Use **annexure 9.**
13. TG is supposed to maintain the TG meeting records (slot mentioned in timetable) as per the attached format in **annexure 10**.

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Patel Nagar, Raisen Road, Bhopal

14. TG is supposed to maintain the record of any kind of telephonic or one to one counselling session in the attached format **annexure 11.**
15. TG should guide the students for his/ her career prospects. User **annexure 10** to keep records.
16. Once in a month a TG need to do the interaction with parents of the students and check their satisfaction level and maintain the record in the attached format as **annexure 11**.
17. TG need to share the attendance and mid sem marks with the parents of the students on compulsory basis.
18. It is suggested that TG should make the whats-app group of parents of their students and share their academic progress with parents.
19. All leave related application of the students should route through TG and final approving authority will be HOD.

Code of Conduct of TG :

1. While talking to parents and students TGs are requested to talk in descent way. In any kind of circumstances TG should not use harsh language.
2. TGS will not discuss any fee related issue and other conflict issues on whatsapp group with neither parents nor students. Only academic progress report need to be shared with parents.
3. As much as possible TGs are requested to share the important information with students on email.

Dr. Amita Mahor
IQAC Coordinator

Dr. K. Dwivedi
Director

ORIENTAL COLLEGE OF TECHNOLOGY

Director
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Website: http://www.oriental.ac.in/oct-bhopal/

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Oriental Campus, Raisen Road, Bhopal-462021 (M.P.) INDIA

Date: 17 June 2014

Policy for Value Added Course

1. The minimum duration of each Value Added Course will be of 30 hrs.
2. Only students who are registered for the semester will be allowed to attend the course.
3. The assessment procedure will be based on the Class Room Assessment, Objective test & attendance.
4. The course is free to enroll and learn from. But if student want a certificate, then they have to register and write the proctored exam conducted by us in person at Oriental College of Technology, Bhopal
5. Criteria to get a Certificate: Final score = Class Room Assessment Score + Objective Test Score, with minimum of 60% attendance during the course.
6. Student will be eligible for a certificate only if :
   a. Class Room Assessment >=25/50
   b. Objective Test Score >= 25/50.
   c. If one of the two clause (a, b) is not met, student will not get the certificate even if the Final score >= 50/100.
7. Students will be issued with a certificate consisting of student name, semester, course name, Course duration.

17/06/'14
Director , OCT

Director
Oriental College of Technology
Thakral Nagar, Raisen Road
Bhopal

Copy to:

1. Academic Committee
2. All HoD's , OCT

ORIENTAL COLLEGE OF TECHNOLOGY
Oriental Campus
Patel Nagar
Raisen Road,
Bhopal-462021

Amita Mahor
Director
17/03/2022
Oriental College of Technology
Patel Nagar, Raisen Road, Bhopal

Registration Form

Name: .....

Enrollment No .....

Branch: .....

Semester .....

Address: .....

.....

.....

.....

City & Pin: .....

E-mail id .....

Contact No: .....

Place:

Signature

Date

Signature with Seal

Head of the Department

CHIEF PATRONS

Dr. K. L. Thakral

Founder Chairman, Oriental Group of Institutes and Chancellor, Oriental University, Indore

PATRONS

Shri Praveen Thakral

Chairman, Oriental Group of Institutes

ADVISORY COMMITTEE

Shri R.K. Sahni

CEO, OGI

Dr. K.K. Dwivedi

Director, OCT

CONVENOR

Mr. Lalit Jain

engg.lalitjain.mlc@gmail.com

Mobile: +919179128221

COURSE COORDINATOR

Mr. Abhigyanam Giri

Mobile: 7566601006

Mr. Akhilesh Jain

Mobile: +918871086887

ORGANISING COMMITTEE MEMBERS

Mr. Pradeep Patel

Dr. Mayur Shukla

CONTACT :-

Mr. Lalit Jain

engg.lalitjain.mlc@gmail.com

Mobile: +919179128221

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Oriental College of Technology, Bhopal

Value Added Course

on

"PCB Designing"

[08-13, March, 2021]

For II - Year Students

In Association with

IndEyes

Organised By

Department of Electronics & Communication Engineering

Head of Department
Electronics & Communication Engg.
Oriental College of Technology, Bhopal

Oriental College of Technology,
Thakral Nagar, Raisen Road, Bhopal – 462021
Phone : 2529026, 2529057, Fax: 0755-2529472

ABOUT THE ORIENTAL GROUP

Oriental Group of Institutes (Indore - Bhopal-Jabalpur) India established in the year 1995 is a self financed premier education group imparting education in the disciplines of Engineering, Pharmacy, Management and Advanced Computer Studies. The Oriental College of Technology, offers six under graduate Bachelor of Engineering courses and three post graduate, Master of Technology courses. The college is having an excellent library, internet lab, modern labs for each department, central workshop, sports & games facilities etc.

Bhopal, the capital of Madhya Pradesh, is also known as city of lakes. It is well connected to all parts of the country by rail and air. The institute is about 09 km from Bhopal railway station, and 07 km from Habibganj railway station and 18 km from Raja Bhoj Airport.

ABOUT THE DEPARTMENT

The Department of Electronics & Communication is a major strength of the institute. The Department has an excellent group of faculty with experience in teaching, Industry and Research. The state-of-art facilities and competent faculties provide an excellent climate for the all round development of the students. It has well qualified, committed and motivated faculty members having specialization in various streams. The core [illegible] of the Department is in the area of VLSI, Arduino & Embedded System.

The EC Department offers M.Tech Course in Electronics along with Undergraduate Program (B.E/B.Tech) with an intake of 18 and 120 respectively.

ABOUT THE COURSE

Electronics & Communication Engineering plays prominent role in every domain and vital role in development of Nation. "PCB Designing" is Value Added course which will provide benefits to the participants in many ongoing research areas in latest technologies.

OBJECTIVES & CONTENTS

A PCB is sort of like a layer cake, there are alternating layers of different materials which are laminated together with heat and adhesive such that the result is a single object.

- ✓ To know latest's trends in PCB Designing.
- ✓ To know the basics of bread board.
- ✓ To know the basics of layout designing through software.
- ✓ To know the basics of etching, drilling, component mounting, testing procedure.

ELIGIBILITY

The Second year Students of Electronics & Communication Engineering branch are eligible to attend the PCB designing course.

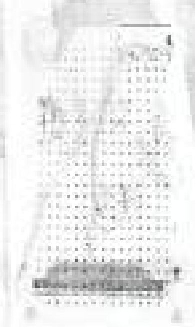
REGISTRATION

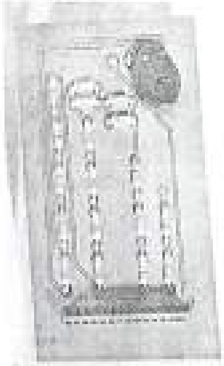
- ✓ No Registration fees.

INVITED SPEAKERS

Mr. Abhigyanan Giri

Director, Ind Eyes Pvt. Ltd. Bhopal





Director
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Patel Nagar, Raisen Road, Bhopal

Head of Department
Electronics & Communication Engineering
Oriental College of Technology, Bhopal

SCHEDULE

5 Days Value Added Course on PCB Designing [08/03/2021 to 13/03/2021]

Day 1 8 march

Time	Activity	Mentor
9:30-10:00 AM	Inaugural Programme	
10:00 AM-12:30PM	Introduction to Bread Board	Mr. Abhigyanam
12:30-1:10PM	LUNCH	
01:10-3:10PM	Practice Session on Bread Board	Mr. Pradeep Patel
3:10 -3:30PM	Break	
03:30-5:30PM	Introduction to PCB	Mr. Amish Jha

Day 2 9 march

Time	Activity	Mentor
9:00-11:00AM	Practice Session on PCB	Mr. Akhilesh Jain
11:00-11:30AM	Break	
11:30-01:00PM	Practice Session on PCB including layout designing through software	Mr. Akhilesh Jain
01:00-1:40PM	LUNCH	
01:40-4:30PM	Practice Session on PCB including layout pasting over PCB	Mr. Abhigyanam

Day 3 10 march

Time	Activity	Mentor
9:00-11:00AM	Etching & Drilling of PCB	Mr. Amish Jha
11:00-11:30AM	Break	
11:30-01:00PM	Component mounting	Mr. Amish Jha
01:00-1:40PM	LUNCH	
01:40-4:30PM	Testing of PCB	Mr. Akhilesh Jain

Day 4 12 march

Time	Activity	Mentor
9:00-11:00AM	Assignment :Designing of multivibrator	Mr. Abhigyanam
11:00-11:30AM	Break	
11:30-01:00PM	Class Room Assessment	Mr. Akhilesh Jain
01:00-1:40PM	LUNCH	
01:40-4:30PM	Testing of PCB	Mr. Akhilesh Jain

Day 5 13 march

Time	Activity	Mentor
9:00-11:00AM	Assignment :Designing of Digital Lock Code [0011]	Mr. Pradeep Patel
11:00-11:30AM	Break	
11:30-01:00PM	Objective Test	Dr. Mayur Shukla
01:00-1:40PM	LUNCH	
01:40-2:30PM	Testing of PCB and Assignment submission	Mr. Akhilesh Jain
2:30-3:30PM	Feedback from students	Mr. Akhilesh Jain
3:30-4:30 PM	Valedictory & Certificate distribution	Mr. Abhigyanam

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Head of Department
Electronics & Communication Engineering

Oriental College of Technology, Bhopal

Electronics & Communication Engineering
Value Added Course: PCB Designing
Course Code: EC 20001

Module 1

Computerized capture of electronic designs

Introduction to all types of electronics components, bread board and testing/measuring instruments. Practical verification of electronic components with Multimeter. Creation of symbolic representation of circuits (schematic diagram), Searching, loading and, placing of components, Wiring connections between components, Updating component, information in PCB layout (Auto packaging), Different tools used for PCB designing

Module 2

Introduction to PCB Layout

PCB Structure and Standards, Tracks, Pads and Vias, Netlist, Design of PCB layout of a circuit, Define the Board Outline, etching & drilling of PCB, Place the components, Routing of the components Manual and Automatic, Detection and repair of Design rules violation, clearance errors and missing or incomplete connections, 3D View of the designed board.

Module 3

Analysis Components

Debugging Tools, Thermal Analysis and Electromagnetic Analysis, Multisim MCU Module, Source Code Editor, MCU Design Overview, MCU Wizard, Building an MCU Workspace, Errors and Warnings, Simulation of Machine Code File, Multisim MCU Module Source Code Editor, Opening a Debug View, Debug Window Settings, Simulation Markers, Breakpoints, Memory View, Miscellaneous Problem for Multisim.

Module 4

PCB Designing

Making circuit on PCB Design Software, Deploying basic circuits from paper to schematic window Testing the schematic for errors, Making Board Layout, Checking for errors and finalizing layout

Module 5

Testing and Trouble shooting

Testing and troubleshooting once your PCB is ready, Various trouble shooting techniques.

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Head of Department
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ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Value Added Course: PCB Designing

Course Code :EC-20001

Students Attendance Sheet

S.NO.	ENROLL NO	NAME OF STUDENT	08-Mar	09-Mar	10-Mar	12-Mar	13-Mar
1	0126EC191001	ABHAY CHATURVEDI	A	A	A	A	A
2	0126EC191002	ABHISHEK JAIN	A	A	A	A	A
3	0126EC191003	ABHISHEK JAMNE	A	A	A	A	A
4	0126EC191004	ABHISHEK KUMAR YADAV	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
5	0126EC191005	ABHISHEK KUSHWAHA	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
6	0126EC191006	ABHISHEK YADAV	Abhishek	Abhishek	Abhishek	Abhishek	Abhishek
7	0126EC191007	ALOK RAJ	AR	AR	AR	AR	AR
8	0126EC191008	AMAN BHARDWAJ	Aman	Aman	Aman	Aman	Aman
9	0126EC191009	AMISHA SAHU	Sahu	Sahu	Sahu	Sahu	Sahu
10	0126EC191010	ANKIT BHARGAV	AB	AB	AB	AB	AB
11	0126EC191011	ANKIT JAISWAL	Ankit	Ankit	Ankit	Ankit	Ankit
12	0126EC191012	ANSHIKA KACHHBAY	Anshika	Anshika	Anshika	Anshika	Anshika
13	0126EC191013	ARUN	Arun	Arun	Arun	Arun	Arun
14	0126EC191014	ARVIND GUPTA	Arvind	Arvind	Arvind	Arvind	Arvind
15	0126EC191015	ASHITA SHRIVASTAVA	A	A	A	A	A
16	0126EC191016	ASHUTOSH MISHRA	Ashutosh	Ashutosh	Ashutosh	Ashutosh	Ashutosh
17	0126EC191017	ATHARVA DESAI	AD	A	AD	A	AD
18	0126EC191018	BHUPENDRA PANDAGRE	Bhupendra	Bhupendra	Bhupendra	Bhupendra	Bhupendra
19	0126EC191019	CHETAN BORBAN	Chetan	Chetan	Chetan	Chetan	Chetan
20	0126EC191020	DEEPAK MEHRA	Deepak	Deepak	Deepak	Deepak	Deepak
21	0126EC191021	DEEPALI SATPUTE	Deepali	Deepali	Deepali	Deepali	Deepali
22	0126EC191023	DEVENDRA SINGH DHAKAD	DS	DS	DS	DS	DS
23	0126EC191024	DEVESH SAHU	Devesh	Devesh	Devesh	Devesh	Devesh
24	0126EC191025	DIVYANSH RAGHUWANSHI	Div	Div	Div	Div	Div
25	0126EC191026	GAURAV OJHA	G	G	G	G	G
26	0126EC191027	HARSHITA RAI	HR	HR	HR	HR	HR
27	0126EC191028	HIMANSHI LODHI	Hima	Hima	Hima	Hima	Hima
28	0126EC191029	JAHANVI MISHRA	JM	JM	JM	JM	JM
29	0126EC191030	JITENDRA LODHA	Jitendra	Jitendra	Jitendra	Jitendra	Jitendra
30	0126EC191031	MOHIT	Mohit	Mohit	Mohit	Mohit	Mohit
31	0126EC191032	NAVNEET PATEL	N	N	N	N	N
	0126EC191033	NEERAJ ODE	N	N	N	N	N
	0126EC191035	NEETU PRAJAPATI					

Director
Oriental College of Technology
Ratel Nagar, Raisen Road, Bhopal

ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Value Added Course: PCB Designing

Course Code :EC-20001

Students Attendance Sheet

S.NO.	ENROLL NO	NAME OF STUDENT	08-Mar	09-Mar	10-Mar	12-Mar	13-Mar
34	0126EC191036	NITISH SINGH					
35	0126EC191037	PARIVESH GUPTA					
36	0126EC191038	PRACHI GUPTA					
37	0126EC191040	PRATIKSHA SAHU					
38	0126EC191041	PRIYANSHI YADAV					
39	0126EC191042	PUNEET SHARMA					
40	0126EC191043	RABBI ALAM					
41	0126EC191044	RAHUL TIWARI					
42	0126EC191046	ROSE PARVEEN					
43	0126EC191047	SAARTHAK LAKHANI					
44	0126EC191048	SAKSHI SONI					
45	0126EC191049	SAKSHI WALKE					
46	0126EC191050	SHAHIL KUMAR					
47	0126EC191051	SHIVESH JAISWAL					
48	0126EC191052	SHOBHIT DUBEY					
49	0126EC191053	SHOBHIT SINGH					
50	0126EC191054	SHRADDHA NIMBALKAR					
51	0126EC191055	SUDHANSHU SHRIVASTAVA					
52	0126EC191056	SURAJ GOUR	A	A	A	A	A
53	0126EC191057	SURAJ MEENA					
54	0126EC191058	VIDYA SHANKER SINGH	A	A	A	A	A
55	0126EC191059	VIPIN YADAV					
56	0126EC191060	VISHAL NADEKAR	A	A		A	A
57	0126EC191062	YOGENDRA SING PARMAR					
58	0126EC203D02	KANISHKA SHRESTH					
59	0126EC203D03	PRATEEK TRIVEDI					
60	0126EC203D05	PRIYANKA SAHU	A	A	A		A
61	0126EC203D06	RAHUL					

Director
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Patel Nagar, Raisen Road, Bhopal

Head of Department
Electronics & Communication Engineering
Oriental College of Technology, Bhopal

Oriental College of Technology,Bhopal

Electronics & Communication Engineering Department

Value Added Course: PCB Designing , 08-13 Mar 2021

Course Code: EC 20001

ASSESSMENT SHEET

Sr.No.	Enroll NO.	Name of Student	Class Room Assessment Score (Marks/50)	Objective Test Score (Marks/50)	Total Score	Eligible to Receive Certificate or not
1	0126EC191001	ABHAY CHATURVEDI	30	30	60	Eligible
2	0126EC191002	ABHISHEK JAIN	35	35	70	Eligible
3	0126EC191003	ABHISHEK JAMNE	A	A	0	Not Eligible
4	0126EC191004	ABHISHEK KUMAR YADAV	38	40	78	Eligible
5	0126EC191005	ABHISHEK KUSHWAHA	37	40	77	Eligible
6	0126EC191006	ABHISHEK YADAV	35	45	80	Eligible
7	0126EC191007	ALOK RAJ	35	45	80	Eligible
8	0126EC191008	AMAN BHARDWAJ	35	40	75	Eligible
9	0126EC191009	AMISHA SAHU	45	40	85	Eligible
10	0126EC191010	ANKIT BHARGAV	45	47.5	92.5	Eligible
11	0126EC191011	ANKIT JAISWAL	45	45	90	Eligible
12	0126EC191012	ANSHIKA KACHHBAY	30	48	78	Eligible
13	0126EC191013	ARUN	35	40	75	Eligible
14	0126EC191014	ARVIND GUPTA	35	40	75	Eligible
15	0126EC191015	ASHITA SHRIVASTAVA	38	40	78	Eligible
16	0126EC191016	ASHUTOSH MISHRA	32	45	77	Eligible
17	0126EC191017	ATHARVA DESAI	40	20	60	Not Eligible
18	0126EC191018	BHUPENDRA PANDAGRE	45	45	90	Eligible
19	0126EC191019	CHETAN BORBAN	35	42.5	77.5	Eligible
20	0126EC191020	DEEPAK MEHRA	26	40	66	Eligible
21	0126EC191021	DEEPALI SATPUTE	28	40	68	Eligible
22	0126EC191023	DEVENDRA SINGH DHAKAD	42	40	82	Eligible
23	0126EC191024	DEVESH SAHU	45	45	90	Eligible
24	0126EC191025	DIVYANSH RAGHUWANSHI	37	40	77	Eligible
25	0126EC191026	GAURAV OJHA	35	45	80	Eligible
26	0126EC191027	HARSHITA RAI	35	40	75	Eligible
27	0126EC191028	HIMANSHI LODHI	37	40	77	Eligible
28	0126EC191029	JAHANVI MISHRA	45	45	90	Eligible
29	0126EC191030	JITENDRA LODHA	42	40	82	Eligible
30	0126EC191031	MOHIT	37	40	77	Eligible
31	0126EC191032	NAVNEET PATEL	37	40	77	Eligible
32	0126EC191033	NEERAJ ODE	35	45	80	Eligible
33	0126EC191035	NEETU PRAJAPATI	45	45	90	Eligible
34	0126EC191036	NITISH SINGH	30	48	78	Eligible

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ORIENTAL COLLEGE OF TECHNOLOGY

Oriental College of Technology,Bhopal

Electronics & Communication Engineering Department

Value Added Course: PCB Designing , 08-13 Mar 2021

Course Code: EC 20001

ASSESSMENT SHEET

Sr.No.	Enroll NO.	Name of Student	Class Room Assessment Score (Marks/50)	Objective Test Score (Marks/50)	Total Score	Eligible to Receive Certificate or not
35	0126EC191037	PARIVESH GUPTA	35	40	75	Eligible
36	0126EC191038	PRACHI GUPTA	35	40	75	Eligible
37	0126EC191040	PRATIKSHA SAHU	38	40	78	Eligible
38	0126EC191041	PRIYANSHI YADAV	37	40	77	Eligible
39	0126EC191042	PUNEET SHARMA	35	45	80	Eligible
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42	0126EC191046	ROSE PARVEEN	35	40	75	Eligible
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50	0126EC191054	SHRADDHA NIMBALKAR	35	40	75	Eligible
51	0126EC191055	SUDHANSHU SHRIVASTAVA	45	45	90	Eligible
52	0126EC191056	SURAJ GOUR	A	A	0	Not Eligible
53	0126EC191057	SURAJ MEENA	35	40	75	Eligible
54	0126EC191058	VIDYA SHANKER SINGH	A	A	0	Not Eligible
55	0126EC191059	VIPIN YADAV	38	40	78	Eligible
56	0126EC191060	VISHAL NADEKAR	A	A	0	Not Eligible
57	0126EC191062	YOGENDRA SING PARMAR	35	45	80	Eligible
58	0126EC203D02	KANISHKA SHRESTH	45	45	90	Eligible
59	0126EC203D03	PRATEEK TRIVEDI	38	40	78	Eligible
60	0126EC203D05	PRIYANKA SAHU	A	A	0	Not Eligible
61	0126EC203D06	RAHUL	35	45	80	Eligible

Director
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Head of Department
Electronics & Communication Engineering
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ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

Value Added Course on PCB Designing
Objective Test, Date: 13/March/2021

Branch:	Electronics & Communication Engineering		
Semester:	Forth Semester		Max. Marks-50 Minimum Marks:25
Subject:	PCB Designing	Subject Code: EC 20001	Time: 1:30Hrs
Note	All questions are compulsory. Each Question is of 2.5 Marks.		

1. The purpose of using flux in soldering is to.....
   A.Increase fluidity of solder metal
   B.Feel up gaps left in a bad joint
   C.Carbon steel
   D.Prevent oxides forming
   E.Wash away surplus solder

2. Heat for soldering process is supplied by.....
   A.Soldering iron
   B.Induction furnace
   C.Electric resistance method
   D.Any of the above

3. Soldering iron is made of wede shape in order to
   A.Apply high pressure at edge
   B.Retain heat
   C.Retain solder
   D.Arc welding

4. Brazing is the process of.....
   A.Joining plastic sheets
   B.Hard soldering using brass spelter
   C.Casing in brass
   D.Makeing steel look like brass
   E.Any of the above

5. The commonly used flux for brazing is.....
   A.Resin
   B.NH_4CL
   C.Borax
   D.Soft iron

6. 8. The temperature range for soldering process is.....
   A. 40°C to 100°C
   B.180°C to 250°C
   C.300°C to 500°C

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D.600°C to 900°C
E.1000°C to 2000°C

7. A soldering iron 'bit' is made of.....
   A.Brass
   B.Tin
   C.Steel
   D.Copper

8. The temperature range of brazing process is.....
   A.150°C to 250°C
   B.250°C to 450°C
   C.500°C to 700°C
   D.700°C to 900°C
   E.1000°C to 2000°C

9. The purpose of using borax in brazing is to.....
   A.Replace flux
   B.Dissolve oxides when heating the work
   C.Accelerate the formation of oxides on the work
   D.Prevent the spelter from melting too quickly
   E.Increase the fluidity of brazing process

10. The flux is brazing process is used in the form of.....
    A.Powder
    B.Liquid
    C.Paste
    D.Any of the above
    E.None of the above

11. What is the ratio of tin & lead in soldering metal alloy?
    a) 50% & 30%
    b) 20%&80%
    c) 10% & 90%
    d) 60% & 40%

12. Resistibility has a relation with
    a)Length of the material
    b)Width of the material
    c)Cross section area of the material
    d)All of them

13. Color code for 1 ohm resistance is
    a) Black, Brown, Gold
    b)Brown, Black, Gold
    c)Both of them
    d)None of them

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14. If a circuit uses 1200 volts at 800mA, what is the input power?
    a)1000Watts
    b)554Watts
    c)300Watts
    d)960Watts

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15. The three basic meters- voltmeter, ammeter and ohmmeter combined into a case are known as a:
    a)Kilometer

b)Wavemeter
c)Wattmeter
d)Multimeter

16. The unit of electrical charge is
a)Coulomb
b)Newton
c)Ampere
d)Volt

17. Bend the leads of component at _____ degree angle with PCB.
a)40
b)50
c)35
d)45

18. If colour code is Red, Brown, Red, Silver then value of R is,
a) 21K ohm, 5%
b)22 ohm, 5%
c)2100 ohm, 10%
d) 2.2K ohm, 10%

19. A potentiometer is a :
a)Variable power supply
b)Variable resistor
c)Variable capacitor
d) Meter for measuring potential difference

20. Below mentioned material is used during PCB designing
a)$FeCl_3$
b)AlCl3
c)Both of above
d)None of above

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Patel Nagar, Raisen Road, Bhopal

Head of Department
Electronics & Communication Engineering
Oriental College of Technology, Bhopal

Course Evaluation/ Feedback Form

Value Added Course	PCB Designing
Date:	08-13 March 2021
Program Location:	Oriental College of Technology, Bhopal
Presenter(s):	Mr. Abhigyanam

Please respond to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

4= Strongly Agree 3= Agree 2= Disagree 1= Strongly Disagree

1. The Course objectives were stated clearly and met.	4 3 2 1
2. The Course was well organized.	4 3 2 1
3. The information and/or skills presented were relevant and useful	4 3 2 1
4. The presenter(s) provided adequate time for questions and answered them effectively.	4 3 2 1
5. The presenter(s) allowed me to work with and learn from others.	4 3 2 1
6. The materials provided were sufficient & appropriate for the program.	4 3 2 1
7. The physical arrangements were adequate.	4 3 2 1

ORIENTAL COLLEGE OF TECHNOLOGY

Director
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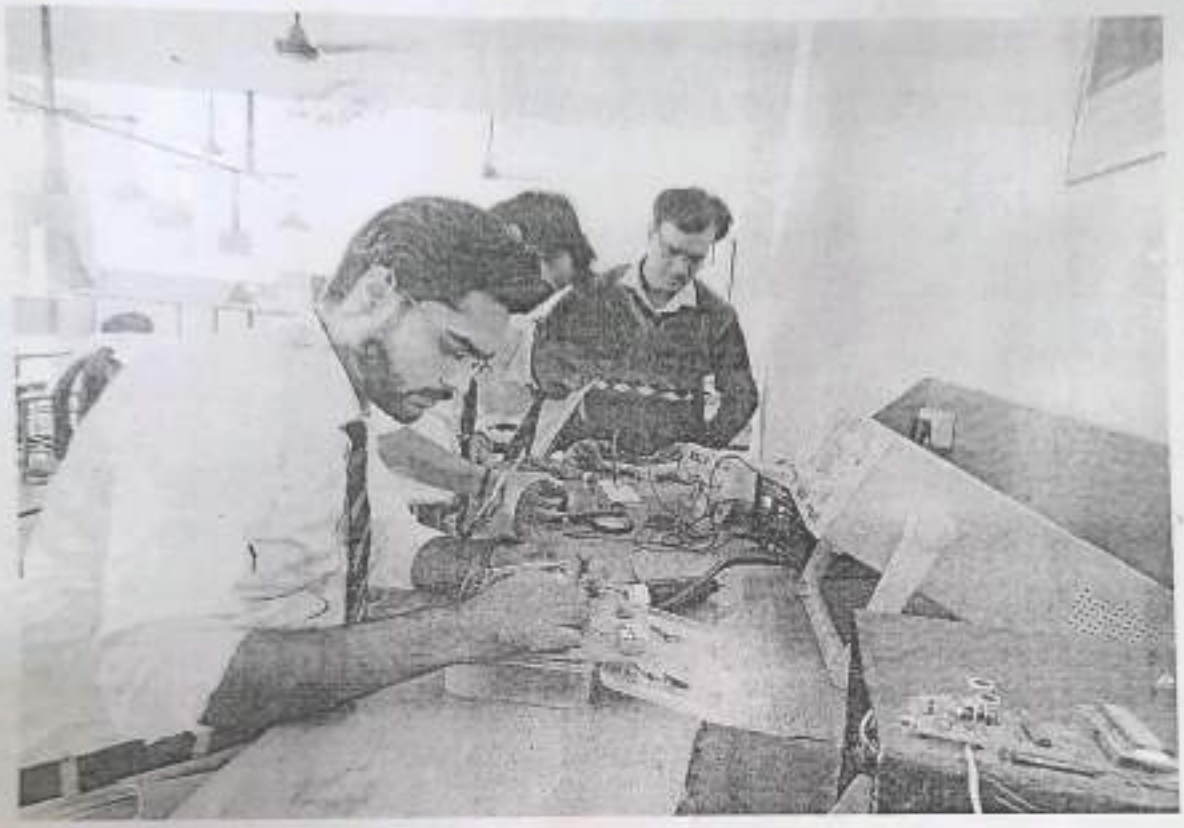
Patel Nagar, Raisen Road, Bhopal

Head of Department
Electronics & Communication Engineering
Oriental College of Technology, Bhopal

PCB DESIGNING

08-13, MARCH 2021



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[Approved by AICTE, New Delhi & Govt. of M.P. Affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal
Oriental Campus, Raisen Road, Bhopal-462021 (MP) INDIA]

CERTIFICATE

EC ORIENTAL

This is to certify that Mr./Ms. ANKIT BHARGAV of EC-IV Sem, OCT, Bhopal, has Successfully Completed the "Value Added Course" on "PCB Designing" during 08-13 March, 2021, organized by Department of Electronics & Communication Engineering, Oriental College of Technology, Bhopal.

Director
Oriental College of Technology
Peer Nagar, Raisen Road, Bhopal

Coordinator

HOD, EC

Head of Department
Electronics & Communication Engineering
Oriental College of Technology, Bhopal

Director, OCT

ORIENTAL COLLEGE OF TECHNOLOGY, BHOPAL

Electronics & Communication Engineering Department

Report

on

PCB Designing (Value Added Course)

Date and Time: 08-13 March 2021

Venue: ECE, OCT

Organized by: ECE, OCT, Bhopal.

Name of the Speakers: Mr. Abhigyanam Giri, Director, Indeyes & Mr. Akhilesh Jain, Associate Professor, EC, OCT

Participants Details: 2nd year students of ECE

Summary

The Value added plays an important role in strengthening the technical skills of under graduates. In the race of making good and bright career in short span of time, most of the time students neglect the aim and the need of education. In view of this changing pattern and conditions of youth education in india, and to guide students on different topics which are not covered under the defined academic syllabus, the Electronics & Communication Engineering department of Oriental College of Technology in association with IndEyes Pvt. Ltd, had organized **"Value Added Course on PCB Designing"** from 8-13 March, 2021 for the students of II year.

This course syllabus was covered by Mr. Abhigyanam Giri, Director, IndEyes Infotech P.vt. Ltd., Mr. Akhilesh Jain, Associate Prof. EC OCT in 30 Hrs. 5-Day Program and in terms of local faculty members of EC department.

Director
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Head of Department
Electronics & Communication Engineering
Oriental College of Technology, Bhopal

On 8 March, 2021 the course started with inaugural and presidential speech of Dr. K.K. Dwivedi, Director, OCT. In his presidential speech, he emphasized on the need to collaborate the academic and the non academic.

On 8 March 2021 , the course coordinator Mr. Abhigyanam Giri , guided all students about working principle of PCB Designing. In his speech, he had explained the need for every student to have skills to get a job. To bridge the gap between the academic and industry need, value added courses are much essential. It is important for higher education institution to supplement the curriculum , to make students better prepare to meet industry demands as well as develop their own interests and aptitudes, he has also explained about configuration and functioning of bread board.

On 9 March, 2021, Mr. Akhilesh Jain , explained , how to design layout through software on PCB.

On 10 March, 2021, Mr. Amish Ku Jha, explained the etching and drilling procedure of PCB, also testing of PCB was done by Mr.Akhilesh Jain .

On 12 March, 2021, Mr. Abhigyanam Giri has given assignments to students on designing of multivibrator, after that testing of PCB was done.

On 13 March, 2021, Mr.Pradeep Patel has given assignment to students on designing the digital lock code, then testing of PCB was done.

At last, Dr. Sandeep Garg, Head, EC, OCT gave away vote of thanks. He thanked Mr. Abhigyanam Giri for providing his valuable time for successful conduction of this course for our students. He also thanked Mr. Akhilesh Jain, Mr. Pradeep Patel and Dr. Mayur shkla for addressing the student audience on the said topic. At the end, he thanked all the faculty, office staff and student volunteers for their unconditional support in organizing this course.

Director
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