

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA

Notice No. 685 Date: 27-03-2024

SHORT TERM SUMMER PROGRAMME



On

Basic Computer Application & Mathematics

Organised by

Department of Mathematics & Science,

(As per UGMIT Office Order No.1/01/661/Dt. 02.05.2023)

1.	Name of Programme :	Basic Computer & Mathematics	
2.	Duration :	01 Month (2 hours per day)	
3.	Eligibility :	Girls students of 10 th examination appeared	
4.	Venue :	Utkal Gourav Madhusudan Institute of Technology(UGMIT), Rayagada	
5.	Course Fees :	Free	
6.	Mode of Programme :	Contact / Physical Mode	
7.	Commencement of the Course:	8 th April 2024	
8.	Objectives :	(i)	Increase the IT literacy among the students and transforming them to digital world.
		(ii)	Enhance the knowledge on fundamental Mathematics and fulfil the gap between 10 th and Intermediate level.
9.	Outcome :	After Completion of this programme, a student can able to understand	
		(i)	Operation of personal computer
		(ii)	Basic requirements of computer application in student career, such as preparing attractive presentation for seminar, preparing project reports etc.
10.	Programme Coordinators :	(i)	Dr. Sisir Kumar Kapat, Lecturer in Computer Applications.
		(ii)	Sri Pradeep Kumar Tripathy, Lecturer in Mathematics.
11.	Laboratory In-charge:	Sri Siba Sankar Sahu, Jr. Lab. Asst. in Computer Science	
12.	Link for registration: (or use the QR code for registration)	https://docs.google.com/forms/d/1_hFmkgkAq16VxqW_qV8W7QAwppSU495LgqNMOhM9aeE/edit	
		or use the QR code below	
			
		or	

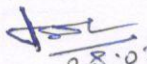
Syllabus

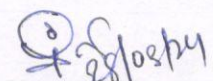
A. Basic Computer Application :


Day	Module	Content	
Day-1	Introduction	Registration of Participants	
		(i)	Identification of Different components of Personal Computers.
		(ii)	Starting and Shutdown procedure of Computer.
Day-2 - 4	Basic Computer Operation	Basic windows operation	
		(i)	Typing Practice
		(ii)	Image editing
Day-5 - 6	Word processing	Editing and Formatting word documents	
Day-7 - 8	Spreadsheet Management	Data entry and data sheet designing	
Day-9 - 10	Slide Animation	Multi Media Slide Animation	
Day-11	Use of Internet	(i)	Web browsing
		(ii)	Creating E-mail ID
		(iii)	Use of social media
Day-12	What Next after 10 th Class?	Exposure and awareness on Diploma Education and Facilities available in UGMIT, Feedback and assessment, Valedictory function.	

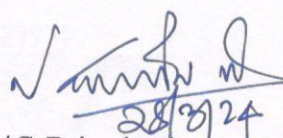
B. Basic Mathematics :

Days	Module	Content
Day-1	Algebra	Registration of participants, Definition of Set, Representation of a Set, Type of Sets, Set of number systems, Cartesian Product of Two Sets
Day-2	Algebra	Constants, Variables, Expressions, Equations, Degree, Types of Equations, Roots/Zeros, Solutions, Geometrical meaning of roots, Polynomial, Quadratic equation and its solution, Factorisation and solution of simultaneous linear equations in two variables.
Day-3	Trigonometry	Idea on some standard geometrical figures, Types of triangles, Number line, Cartesian Plane, Trigonometric ratios, Identities, Solution of some related problems.
Day-4	Trigonometry	Values of T-ratios on some standard angles and sign of T-ratios in different quadrants
Day-5	Trigonometry	Compound Angles and Solution of some related problems.
Day-6	Trigonometry	Multiple & Sub-Multiple Angles and Solution of some related problems.
Day-7	Trigonometry	Solution of some more related problems.
Day-8	Co-ordinate Geometry	Cartesian Geometry, Two-dimensional geometry, Distance formula and Solution of some related problems.
Day-9	Co-ordinate Geometry	Section Formula and Solution of some related problems
Day-10	Co-ordinate Geometry	Area of triangle and Polygon, Co-linearity, Solution of some related problems
Day-11	Co-ordinate Geometry	Idea on straight line.
Day-12	What Next after 10 th Class ?	Exposure and awareness on Diploma Education, Facilities available in UGMIT, Feedback and assessment, Valedictory function.


28.03.24
(Siba Sankar Sahu)


28/03/24
(Sisir Kumar Kapat)


28/03/24
(Pradeep Kumar Tripathy)


28/03/24
I/C Principal
UGMIT, Rayagada