A14/Comp 2

BARASAT COLLEGE

(Affiliated to West Bengal State University)
1, Kalyani Road, P.O. Nabapally,
P.S. Barasat, Kolkata-700126
Phone:033-35564702
E-mail:barasatcollege72@yahoo.com
Website:www.barasatcollege.ac.in

Ref No. BCN/ADD/DEPT_COMP/0101/2022

Date: 7th January, 2022

NOTICE

This is to notify that the Department of Computer Science will conduct an Add-on Course on Introduction to Scilab from 13th to 25th January, 2022 on Computer Science Lab from 12.00 to 3.00 P.M. Interested students should register for the course to the H.O.D, department of Computer Science within 12th January, 2022.

Dr. Parthapratim Dasgupta
.M.A, M.Phil, Ph.D
Principal
Barasat College

![Barasat College logo]

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Phone-(033)2542-3656

Add-on Course of 30 Hours

TITLE: Introduction to SciLab
Objectives: To understand the fundamentals of Scilab and Utilization
VENUE : COMPUTER SCIENCE LAB
DATE AND TIME: 13-25 JANUARY, 2022, 12.00-3.00 PM

Course Structure: *The course is equivalent to 2 credits. The course will be conducted in extra hours in online mode between semesters.*

Teacher: Tamal Deb, Assistant Professor & Head, Computer Sc. Dept

Sl. No	CONTENT	INSTRUCTIONAL HOURS
1	Installation of the softwareScilab. Basic syntax, Mathematical Operators, Predefined constants, Built in functions	1
2	Complex numbers, Polynomials, Vectors, Matrix. Handling these data structures using built in functions.	5
3	Programming – - Functions - Loops - Conditional statements - Handling .sci files	5
4	Installation of additional packages e.g. 'optimization'	1
5	Graphics handling – 2D, 3D - Generating .jpg files - Function plotting - Data plotting	10
6	Applications – - Numerical Linear Algebra (Solving linear equations, eigen values atc.) - Numerical Analysis – iterative methods - ODE – Blotting solution curves Comparison with C / C++/ Matlab	8
Assignments		
Examination		

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