

**NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH**  
**Block – FC, Sector – III, Salt Lake City, Kolkata – 700 106**

**Details of STTPs Offered by Dr. Kinsuk Giri for 2020-21**

**Venue : NITTTR, Kolkata**

SL. No	Programme Title	Course Code	Programme Co-ordinator (s)	Date		Week/s	Programme Objectives
				From	To		
1	Numerical and Statistical Methods with PYTHON	<b>CU03</b>	Dr. Kinsuk Giri	<b>27/04/20</b>	<b>01/05/20</b>	1	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● get an overview on different numerical and statistical methods</li> <li>● get an overview on solution techniques</li> <li>● solve problems using PYTHON</li> </ul>
2	Problem based Learning	<b>PS05</b>	Dr. Indrajit Saha Dr. Kinsuk Giri Dr. Sagarika Pal Dr. Arpan Mondal	<b>18/05/19</b>	<b>29/05/20</b>	2	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● explain the basic problem solving strategies in class room</li> <li>● solve problems in Mechanical Engineering</li> <li>● identify specific problems covering a particular area of learning</li> <li>● get the benefits associated with PBL in Mathematics</li> </ul>
3	Induction Training Program	<b>PS07</b>	Dr. Indrajit Saha Dr. Kinsuk Giri Dr. Sagarika Pal Dr. Arpan Mondal	<b>15/06/20</b>	<b>25/06/20</b>	2	After attending the course the participants will be able to <ul style="list-style-type: none"> <li>● Identify the roll of a teacher <input type="checkbox"/> Identify Instructional Objectives <input type="checkbox"/></li> <li>● Prepare Lesson Plan <input type="checkbox"/> Design Instructional Media &amp; Computer Assisted Instruction(CAI) <input type="checkbox"/></li> <li>● Assess the learning performance of students</li> </ul>

SL. No	Programme Title	Course Code	Programme Co-ordinator (s)	Date		Week/s	Programme Objectives
				From	To		
4	Big Data Analytics	CU35	Dr. C Chakraborty Dr. Kinsuk Giri	06/07/20	10/07/20	1	<ul style="list-style-type: none"> <li>● On completion of the course, the participants would be able to <ul style="list-style-type: none"> <li>● <input type="checkbox"/> Get acquainted with an overview of Big Data and its Applications <input type="checkbox"/></li> <li>● Explore statistical methods for analysing big data <input type="checkbox"/></li> <li>● Demonstrate Machine Learning (Classification and Clustering) and Data Mining algorithms <input type="checkbox"/></li> <li>● Get an exposure on Python Programming Language <input type="checkbox"/></li> <li>● Demonstrate Data Mining with Python (Hands-on-training) <input type="checkbox"/></li> <li>● Explore R programming for Big Data Visualization &amp; ML <input type="checkbox"/></li> <li>● Get an exposure to project based learning in this domain.</li> </ul> </li> </ul>
5	Problem Solving with SCILAB	CU40	Dr. Kinsuk Giri	27/07/20	07/08/20	2	<ul style="list-style-type: none"> <li>● On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● understand and explain the different aspects of SCILAB</li> <li>● apply SCILAB to solve for mathematical, statistical and optimization problems</li> <li>● use SCILAB for graphics and visualization</li> </ul> </li> </ul>
6	Exposure in Optimization	CU63	Dr. Kinsuk Giri	14/09/20	18/09/20	1	<ul style="list-style-type: none"> <li>● On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● understand various types of optimization problems</li> <li>● apply optimization techniques in different fields</li> <li>● solve some basic problems using tools</li> </ul> </li> </ul>
7	Introduction to PYTHON Programming	CU76	Dr. Kinsuk Giri	16/11/20	20/11/20	1	<ul style="list-style-type: none"> <li>● On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● understand and explain the different aspects of PYTHON</li> <li>● apply PYTHON to solve problems</li> <li>● use PYTHON for visualizations</li> </ul> </li> </ul>
8	Problem based Learning (ICT Mode)	ICT22	Dr. Indrajit Saha Dr. Kinsuk Giri Dr. Sagarika Pal Dr. Arpan Mondal	07/12/20	11/12/20	1	<ul style="list-style-type: none"> <li>● On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● explain the basic problem solving strategies in class room</li> <li>● solve problems in Mechanical Engineering</li> <li>● identify specific problems covering a particular area of learning</li> <li>● get the benefits associated with PBL in Mathematics</li> </ul> </li> </ul>

SL. No	Programme Title	Course Code	Programme Co-ordinator (s)	Date		Week/s	Programme Objectives
				From	To		
9	Research Methodology in Engg. and Technical Writing using LaTeX	<b>MGT06</b>	Dr. Kinsuk Giri Dr. Indrajit Saha	<b>14/12/20</b>	<b>24/12/20</b>	<b>2</b>	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● get exposure in Research Methodology</li> <li>● <input type="checkbox"/> describe the fundamentals LaTeX programming</li> <li>● apply LaTeX commands for preparing scientific and non-scientific documents</li> </ul>
10	Numerical and Statistical Methods with PYTHON	<b>ICT22</b>	Dr. Kinsuk Giri	<b>28/12/20</b>	<b>01/01/21</b>	<b>1</b>	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● get an overview on different numerical and statistical methods</li> <li>● get an overview on solution techniques</li> <li>● solve problems using PYTHON</li> </ul>
11	Discrete Mathematics	<b>CU98</b>	Dr. Kinsuk Giri	<b>11/01/21</b>	<b>15/01/21</b>	<b>1</b>	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● understand the fundamentals of discrete mathematics</li> <li>● solve problems in various areas of discrete mathematics</li> <li>● apply tools to solve few discrete math problems</li> </ul>
12	Introduction to Web Designing using PHP and MySQL	<b>CU107</b>	Dr. Indrajit Saha Dr. Kinsuk Giri	<b>01/02/21</b>	<b>05/02/21</b>	<b>1</b>	After attending the program, the participants will be able to <ul style="list-style-type: none"> <li>● describe the fundamentals of PHP and MySQL</li> <li>● design and develop dynamic webpages</li> <li>● explain PHP and MySQL in classroom</li> </ul>
13	Mathematical Foundation of Computer Science	<b>CU</b>	Dr. Kinsuk Giri Dr. Samir Roy	<b>22/02/21</b>	<b>05/03/21</b>	<b>2</b>	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"> <li>● able to explain mathematical/logical foundation of computations</li> <li>● model computational tasks in terms of mathematical formalism</li> <li>● apply appropriate mathematical tools to solve computational problem</li> </ul>
14	HPC and Cloud Computing	<b>CU124</b>	Dr. R Dasgupta Dr. Kinsuk Giri	<b>22/03/21</b>	<b>26/03/21</b>	<b>1</b>	After attending the course the participants will be able to <ul style="list-style-type: none"> <li>● get exposure in different hardware components of modern computer</li> <li>● get exposure in the limitation of modern computer in context of high performance</li> <li>● get exposure in HPC and Cloud Computing</li> </ul>

### Venue : Bhubaneswar

SL. No	Programme Title (CODE)	Programme Co-ordinator (s)	Date		Week/s	Programme Objectives
11	Introduction to PYTHON Programming (BBSR07)	Dr. Kinsuk Giri	22/06/20	26/06/20	1	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"><li>● understand and explain the different aspects of PYTHON</li><li>● apply PYTHON to solve problems</li><li>● use PYTHON for visualizations</li></ul>

### Venue : Guwahati

SL. No	Programme Title	Programme Co-ordinator (s)	Date		Week/s	Programme Objectives
12	Numerical and Statistical Methods with SCILAB (GUW07)	Dr. Kinsuk Giri	29/06/2020	03/07/2020	1	On successful completion of the programme the participants will be able to <ul style="list-style-type: none"><li>● get an overview on different numerical and statistical methods</li><li>● get an overview on solution techniques<ul style="list-style-type: none"><li>● solve problems using SCILAB</li></ul></li></ul>