

**UGC – Human Resource Development Centre  
Jawaharlal Nehru University, New Delhi**

**1<sup>st</sup> Inter Disciplinary Course in Computer Science, Bioinformatics & Information Technology**  
24<sup>th</sup> August – 18<sup>th</sup> September, 2015

**Course coordinators:**

**Dr. Andrew Lynn**

School of Computational and Integrative Sciences, JNU

Email: [andrew@mail.jnu.ac.in](mailto:andrew@mail.jnu.ac.in)

**Prof. Sonajharia Minz**

School of Computer & Systems Sciences, JNU

Email: [sonaminz@mail.jnu.ac.in](mailto:sonaminz@mail.jnu.ac.in), [sona.minz@gmail.com](mailto:sona.minz@gmail.com)

**1. Summary**

Total no. of application received and selected	36
Total no. of confirmations till August 20 <sup>th</sup> 2015	21
Total no. of cancellations/No response	15
Total no. of applicants reported	21

## 2. List of participants

Sr. No.	Name	State
1	A. KRISHNAMACHARI	DELHI
2	AAKANKSHA	DELHI
3	ALOK GUPTA	UTTAR PRADESH
4	ASHISH MEHTA	UTTARAKHAND
5	BHAVYA DEEP	DELHI
6	BISWAJIT GOSWAMI	ASSAM
7	GIAN DEVI	HARYANA
8	HARLEEN KAUR	DELHI
9	KATHA KISHOR KUMAR	TELANGANA
10	KULDEEP SINGH KOHAR	HARYANA
11	M.P.MISHRA	DELHI
12	MUHAMMED SAYEED. T	KERALA
13	RAHIB B	KERALA
14	RAJESH SINGH	HARYANA
15	RAM SHRINGAR RAO	DELHI
16	RAVI KUMAR YADAV	DELHI
17	SANDEEP MAAN	HARYANA
18	SANKAIT GUPTA	JAMMU & KASHMIR
19	SUVENDU SAHA	ASSAM
20	UMA DHAWAN	DELHI
21	YASH PAUL	JAMMU & KASHMIR

## 1. Schedule

### WEEK I

DATE	9:30am-11:00am	11:30am-01: 00pm	01:pm-2:00pm Lunch	2:15pm to 3.:30pm	3:45pm-5:00pm
Monday, 24 <sup>th</sup> August 2015	<i>Registration</i>	<i>Combined Inaugural Session</i>  Prof. B. B. Bhattacharya		Prof. S C Dutta Roy	Course Coordinator
Tuesday, 25 <sup>th</sup> August 2015	Prof. Anirban Chakraborti  <i>“Research and Teaching programs”</i>	Dr. Lovekesh Vig  <i>“Deep Learning: Methods and Applications”</i>		<b>Workshop: ICT in Education:</b> <i>Objectives:</i> (1) Introducing Indian efforts in the area: Edusat and NMEICT (2) Learning Management Systems (3) Authoring Tools and Developing Course Content <i>Topics:</i> E-learning: Introducing the open-source LMS Moodle. Hands on session: Installation and understanding various modules Content development: EDUSAT, e-content development and e-learning [to be conducted by UGC Consortium for Educational Communication] <i>Participants will have to develop a course of their choice as part of the workshop during the program.</i>	
Wednesday, 26 <sup>th</sup> August 2015	Prof. K. K. Biswas  <i>“Machine Learning for Bioinformatics”</i>	Prof. Niladri Chatterjee  <i>“Machine Translation”</i>			
Thursday, 27 <sup>th</sup> August 2015	Prof. Anirban Chakraborti  <i>“Network Theory”</i>	Prof. K.K. Bharadwaj  <i>“Social Networking”</i>			
Friday, 28 <sup>th</sup> August 2015	Dr. Sumantra Dutta Roy  <i>“An introduction to Image Processing”</i>				

## WEEK II

DATE	9:30am-11:00 am	11:30am-01:00pm	01:00pm-2:00pm Lunch	2:15pm to 3:30pm	3:45pm-5:00pm
Monday, 31 <sup>st</sup> August 2015	Prof. Karmeshu <i>"Monte Carlo Simulation"</i>	Prof. Satish Chand <i>"Image coding/Video on Demand"</i>		Facilitator: Dr. Lovekesh Vig Workshop: <i>Deep Learning</i>	
Tuesday, 1 <sup>st</sup> September 2015	Prof. D. P. Vidyarthi <i>"Research issues in cloud computing"</i>	Prof. Girish Nath Jha		Facilitator: Prof. Girish Jha and Mr. Atul Jha Workshop: <i>Computational Linguistics</i>	
Wednesday, 2 <sup>nd</sup> September 2015	Prof. Parimala N <i>"Service Oriented Architecture"</i>	Prof. A. P. Dimri <i>"Simulations on Role of the Himalayas in Defining Indian Weather and Climate"</i>		Workshop: <i>NGS</i>	
Thursday, 3 <sup>rd</sup> Septmeber 2015	Mr. Verghese K <i>"Statistical Tools for large data analysis"</i>	Prof. Milap Punia <i>"Challenges and opportunities to enable geospatial services/application for Societal needs: (for) Computer sciences and information technology Inputs"</i>		Facilitator: Dipendra Das, Workshop: <i>Remote Sensing and GIS</i>	
Friday, 4 <sup>th</sup> September 2015	Prof. Sonajharia Minz <i>"Geo-Spatial Data Analysis"</i>	Dr. Dipendra Das <i>"GIS &amp; Remote Sensing"</i>		Facilitator : Mr. Verghese K Workshop: <i>Extraction and Analysis of Large Survey Data</i>	

### Week III

DATE	9:30am-11: 00am	11:30am-01:00pm	01:00pm - 2:00pm Lunch	2:15pm- 3:30pm	3:45pm-5:00 pm
Monday, 7 <sup>th</sup> September 2015	Prof. D.K. Lobiyal  <i>"Networks"</i>	Prof. S.K. Muttoo  <i>"Information Security"</i>		Prof. Sushil kumar and Dr. Karan  <i>"Networks Lab"</i>	
Tuesday, 8 <sup>th</sup> September 2015	Prof. R.K. Agrawal  <i>"Brain Computer Interface"</i>			Dr. N. Subbarao  <i>"Lecture/ demonstration on methods and applications in Drug Discovery"</i>	
Wednesday, 09 <sup>th</sup> September 2015	Prof. Krishendu Dastidar  <i>"Auction Theory: An Introduction"</i>	Dr. Kolin Paul  <i>"GPU computing: Application in Sequence Assembly algorithm"</i>		Mr. Tarun Pant  <i>"Computer Networking in JNU campus"</i>	
Thursday, 10 <sup>th</sup> September 2015	Mr. Sanjeev Kumar  <i>"Issues in Data sharing and Data Management cyber security"</i>	Prof. S. Balasundaram,  <i>"Support Vector Machines"</i>		Mr. Harris  <i>"Development of E-Governance applications in JNU"</i>	
Friday 11 <sup>th</sup> September 2015	Prof. Naveen Prakash  <i>"Data warehousing: Bridging the Organization – Technology gap"</i>	Prof. Rajeev Kumar  <i>"Evolutionary Multi objective Combinatorial Optimization: Research Directions"</i>		Prof. Agrawal and Mr. Vipin Kumar  <i>"MATLAB"</i>	

**Week IV**

<b>DATE</b>	<b>9:30am-11:00am</b>	<b>11:30am-01: 00pm</b>	<b>01:00pm-</b>	<b>01:00pm-2:00pm Lunch</b>	<b>2.15pm to 3.30pm</b>	<b>3:45pm-5: 00 pm</b>
Monday, 14 <sup>th</sup> September 2015	Prof. Sanghamitra Acharya <i>“Data use and related issues in social sciences”</i>	Dr. Somitra Kr. Sanadhaya <i>“Cryptology and some Real life Use-cases”</i>	Group Photo		<i>“High Performance Computing”</i>  Dr. Andrew Lynn	
Tuesday, 15 <sup>th</sup> September 2015	Prof. Vasudha Bhatnagar <i>“Social Network analysis: Introduction to social Theories”</i>	Prof. C.P. Katti <i>“Numerical Solutions of Differential Equations”</i>			<i>“Group Discussion: Preparation of project work plan/proposal”</i>	
Wednesday, 16 <sup>th</sup> September 2015	Dr. Gagan Dhawan <i>“Teaching &amp; Research in Computational Biology and in silico Drug Discovery”</i>	EVALUATION  Prof. N. Parimala				
Thursday, 17 <sup>th</sup> September 2015	EVALUATION  Prof. D. P. Vidyarthi					
Friday, 18 <sup>th</sup> September 2015	<b>9:00am to 10:00am</b> Feed Back	<b>10:00am to 11:00am</b> <i>“Valedictory Lecture”</i>  Dr. K. R. Murali Mohan & Dr. T. Madhan Mohan & Prof. Alok Bhattacharya	<b>11:15 am to 12:00 pm</b> Combined interactive session in the Committee room			

