Annual Report

2016-2017





Indian Institute of Information Technology
Guwahati

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Introduction



The Institute was in its fourth year of operations in 2016-17. The total student strength of the Institute was 257 in 2016-17, out of which 233 were B.Tech students, 11 were full time PhD students, and 13 were part-time PhD students. The faculty strength at the end of the year was 35 (including the Director, and one Visiting Professor) and the staff strength 20 (including Registrar and OSD, on contract). 13 faculties joined the Institute (4 in CSE, 5 in ECE,

2 in Mathematics, and 2 in HSS), and 7 faculties left the Institute (3 in CSE, 3 in ECE and 1 in Science & Mathematics).

Classes and the office continued to function from three floors of a building in the campus of the Assam Textile Institute, GNB Road, Guwahati. Students and faculty stayed in hired flats in Shine Heaven Flat Complex, Baghorbori, Guwahati. 67 flats were on lease in the complex as of March 2017.

Sponsored R&D Activities began in the Institute with one active sponsored project and with five others approved.

Construction in the campus at Sontola near the airport was in full swing.

The Institute applied for a Deemed University Status with UGC in August 2016. MHRD approved in principle a Bill to be placed in Parliament to give "Institutes of National Importance" status to all the IIITs in PPP mode.

The Institute submitted a Revised Detailed Project (DPR) to MHRD for Rs. 253 crores for an Institute with capacity of 1000 students, in September 2016. The project in 2016-17 was for Rs. 138 crores and construction was going on for a capacity of 500 students.

Prof. Gautam Barua joined as a full-time Director on 16 June 2016 for a five year term.

Gautam Barua Director

The State Steering Committee

The State Steering Committee oversees the affairs of the Institute and provides assistance to facilitate action from the State Government on matters concerning the Institute. There was no meeting of the Steering Committee in 2016-17. The following were the members of the State Steering Committee in 2016-17:

SI No	Name & Address	Designation
1	Shri Sarbananda Sonowal Hon'ble Chief Minister, Assam	Chairman
2	Shri S. Ramadorai, Chairman, National Skill Development Agency, Finance Dept., Govt. of India	Vice Chairman
3	Shri Himanta Biswa Sarma, Hon'ble Minister for Education Department, Govt. of Assam	Member
4	Chief Secretary, Govt. of Assam	Member
5	Sri Ranjit Barthakur, Chairman, Amalgamated Plantations Pvt. Ltd	Member
6	Additional Chief Secretary Revenue & Disaster Management, Govt. of Assam	Member
7	Additional Chief Secretary Finance Department , Govt. of Assam	Member
8	Additional Chief Secretary Power Department, Govt. of Assam	Member
9	Principal Secretary Planning & Development , Govt. of Assam	Member
10	Principal Secretary Information Technology Department. Govt. of Assam	Member
11	Commissioner & Secretary, Finance EC(III) Department, Govt. of Assam	Member
12	Commissioner & Secretary Education (Higher/Technical) Department, Govt. of Assam	Member Convenor
13	Commissioner & Secretary PWD (Buildings), Govt. of Assam	Member
14	Commissioner & Secretary PWD (Roads), Govt. of Assam	Member

15	Managing Director, Assam Electronics Development Corporation Ltd. (AMTRON), Govt. of Assam	Member Co- Convenor and Ex- Officio Secretary
16	Director, IIT Guwahati, Representative of Govt. of India, Ministry of HRD, New Delhi	Member
17	Deputy Commissioners of Kamrup & Kamrup (Metro)	Member
18	Prof. Rajeev Sangal Director, IIT, BHU	Member
19	Prof. M.S. Ananth Ex-Director, IIT, Chennai	Member
20	Shri O.P. Bhatt Ex-Chairman, State Bank of India	Member
21	Dr. Devi Shetty Chairman, Narayana Hrudalaya Private Limited, Bangalore	Member
22	Shri Madhavan Nambiar Former Secretary to Govt. of India, Ministry of Civil Aviation	Member
23	Prof. Satish Tripathi President, University of Buffalo, State University of New York	Member
24	Representative of the Industry Partners	Member
25	Director Technical Education, Govt. of Assam	Member
26	Director, IIIT Guwahati	Member

The Board of Governors

The following were members of the Board of Governors in 2016-17:

- 1. Shri. S. Ramadorai (Chairman) TCS.
- 2. Prof. N.V. Deshpande (Member till August 2016), Director, NIT Silchar.
- 3. Prof. V. Ramachandran (Member from September 2016 to December 2016), Director in Charge, NIT Silchar.
- 4. Prof. Rajat Gupta (Member from January 2017), Director, NIT Silchar.
- 5. Prof. Dhruba Jyoti Saikia (Member) VC, Cotton College State University.
- 6. Prof. Gautam Biswas (Member) Director, IIT Guwahati.
- 7. Shri. Ranjit Barthakur (Special Invitee) Govt. of Assam.
- 8. Shri. J.K. Borgohain (Member till December 2016) Oil India Ltd.
- 9. Shri. Bedanta Prasad Sarma (Member from January 2017) Oil India Ltd.
- 10. Dr. K. Kesavsamy (Member) TCS.
- 11. Shri. Paban Kumar Borthakur (Member till December 2016) Principal Secretary, Education, Govt. Of Assam.
- 12. Shri Ajay Tewari (Member from January 2017) Commisioner and Secretary, Higher Education, Govt. Of Assam .
- 13. Shri. Hemant Kanoria (Member) SREI.
- 14. Shri. Rakesh Ranjan (Member) Joint Secretary, MHRD Govt. Of India.
- 15. Prof. Pinakeshwar Mahanta (Member) Dean, Faculty Affairs, IIT Guwahati.
- 16. Prof. M. Guru Prem Prasad (Member) Dean, Academic Affairs, IIT Guwahati.
- 17. Prof. Gautam Barua (Secretary) Director, IIIT Guwahati.

The Board met four times during the year (24 June 2016, 28 September 2016, 10 January 2017, 31 March 2017). Some of the major decisions taken during the year were:

- 1. Approval of Application for Deemed University Status
- 2. Approval of Revised Detailed Project Report of Rs. 253 crores.
- 3. Administrative Approval for various Works on campus.
- 4. Appointment of faculty of the Institute.
- 5. Approval of the Budgets of 2016-17 (revised) and 2017-18.
- 6. Increase in fees of B.Tech students to Rs. 1 lakh per semester
- 7. Increase in B.Tech intake to 80 (CSE 45, ECE 35) from July 2017.
- 8. Approval of R&D Rules and Regulations

The Building and Works Committee

The Building and Works Committee of the Institute is as follows:

- 1. Director, Chairman
- 2. Additional Secretary or his nominee, MHRD, Govt. of India
- 3. Principal Secretary or his nominee, Education Dept., Govt. of Assam
- 4. Dr. K. Kesavasamy or his nominee, TCS
- 5. Prof. Anjan Dutta, Former Dean Institute Works, IIT Guwahati
- 6. Chief Engineer (Buildings) Assam State PWD, or his nomminee
- 7. Dr. Ferdous Barbhuiya, IIIT Guwahati
- 8. Mr. Kamalasan Goswami, OSD, IIIT Guwahati
- 9. Executive Engineer, IIIT Guwahati, Secretary

The Committee handled the tendering process of the various Works that were awarded at the campus during the year. The Committee met four times during the year (23rd June 2016, 6th September 2016, 12th December 2016, 9th February 2017).

The Senate

The following were the members of the Senate:

- 1. The Director of the Institute (chairman of the Senate)
- 2. Prof. M. G. P. Prasad, IIT Guwahati
- 3. All Faculty members at the level of Assistant Professors and higher. From March 2016:
- 4. Prof. Amarjyoti Chowdhury, Ex Pro Vice-Chancellor, Tezpur University
- 5. Prof. Dilip Kumar Saikia, Director, NIT Meghalaya
- 6. Prof. Prabin Kumar Bora, Deputy Director, IIT Guwahati
- 7. Prof. Madhurya Bezbarua, Gauhati University
- 8. Registrar, Non Member Secretary

The Senate approved some revisions in the Ordinances for the B.Tech programme of the Institute. The Senate approved the formation of the Students Gymkhana Council and the Constitution of the Council. The Senate also approved the syllabi of various course of the B.Tech programme. The Senate met two times during the year (4th April 2016 and 18th November, 2016).

Student Details

The student details as on 31st March 2017 were as follows:-

	Male	Female	General	OBC	SC	ST	Total
B.Tech CSE 2013	30	0	15	9	5	1	30
B.Tech ECE 2013	19	9	10	9	7	2	28
B.Tech CSE 2014	29	4	16	9	5	3	33
B.Tech ECE 2014	23	4	15	7	4	1	27
B.Tech CSE 2015	29	3	19	8	4	1	32
B.Tech ECE 2015	24	4	15	9	3	1	28
B.Tech CSE 2016	23	4	15	8	3	1	27
B.Tech ECE 2016	26	2	9	14	3	2	28
B.Tech Total	203	30	114	73	34	12	233
PhD CSE (Regular)	4	3	6	1	0	0	7
PhD CSE (Part-time)	7	1	7	0	1	0	8
PhD ECE (Regular)	2	1	2	1	0	0	3
PhD ECE (Part-time)	1	0	1	0	0	0	1
PhD HSS (Regular)	0	0	0	0	0	0	0
PhD HSS (Part-time)	3	1	3	1	0	0	4
PhD Maths (Regular)	1	0	0	1	0	0	1
PhD Maths (Part-time)	0	0	0	0	0	0	0
PhD Total	18	6	19	4	1	0	24
Total	221	36	133	77	35	12	257

Faculty

The following were the faculty members as of 31st March 2017:

- Gautam Barua (on secondment from IIT Guwahati), Professor, CSE
- 2. Malay Ananda Dutta Professor, CSE
- 3. Dr. Bidisha Dasgupta, Astt. Prof., ECE
- 4. Dr. Ferdous Ahmed Barbhuiya, Astt. Prof., CSE
- 5. Dr. G. Aruna, Astt. Prof., ECE
- Dr. Gautam Kalita, Astt. Prof., Mathematics
- 7. Dr. Hari K. Choudhury, Astt. Prof., HSS
- 8. Dr. Kuntal Deka, Astt. Prof., ECE
- Dr. Moumita Roy, Astt. Prof., CSE
- 10. Dr. Mourina Ghosh, Astt. Prof., ECE
- 11. Dr. Rajarshi Mitra, Astt. Prof., HSS
- 12. Dr. Rakesh Matam, Astt. Prof., CSE
- 13. Dr. Rohit Tripathi, Astt. Prof., CSE
- 14. Dr. Sounak Roy, Astt. Prof., ECE
- 15. Dr. Subhasis Dhal , Astt. Prof., CSE
- 16. Dr. Suranjana Barua, Astt. Prof., HSS
- 17. Dr. Soumyajit Poddar Astt. Prof., ECE
- 18. Dr. Amita Sharma Astt. Prof., Mathematics

- 19. Dr. Anuradha Jha
 Astt. Prof., Mathematics
- 20. Dr. Rusha Patra Astt. Prof., ECE
- 21. Dr. Nilkanta Sahu Astt. Prof., CSE
- 22. Dr. Sanya Anees Astt. Prof., ECE
- 23. Dr. Subhabrata Paul Astt. Prof., CSE
- 24. Dr. Kaveri Deb Astt. Prof., HSS
- 25. Dr. L David Lal Astt. Prof., HSS
- 26. Dr. Shilpa Dinkar Rao Astt. Prof., ECE
- 27. Dr. Dip Sankar Banerjee Astt. Prof., CSE
- 28. Dr. Suchetana Chakraborty Astt. Prof., CSE
- 29. Dr. Shovan Barma Astt. Prof., ECE
- 30. Dr. Shrishendu Das, Astt. Prof., CSE
- 31. Dr. Surajit Panja, Astt. Prof., ECE
- 32. Gitimoni Saikia Lecturer, CSE
- 33. Sanjay Moulik Lecturer, CSE
- 34. Amarnath Yadav Lecturer, ECE
- 35. Mansoor Khan Lecturer, ECE

Staff

The following were the staff as of 31st March 2017:

- Dr. Brajendra Nath Raychoudhury, Registrar
- Mr. Kamalasan Goswami, Officer on Special Duty (OSD)
- Mr. Mriganka Dutta Saikia, Assistant Registrar (Finance and Accounts)
- 4. Mr. Pallav Baruah, Executive Engineer
- Mr. Birabrata Seal Junior Technical Superintendent
- 6. Mr. Prasenjit Deka, Junior Technical Superintendent
- 7. Mr. Kishore Kumar Das, Junior Technical Superintendent
- Mr. Hirak Jyoti Nath, Junior Technical Superintendent
- Mr. Arup Borah Junior Technical Superintendent
- 10. Mr. Raushan Kumar Junior Technical Superintendent
- 11. Ms. Sweety Tamuli

- Junior Superintendent
- Mr. Bhaskarjyoti Bora, Junior Superintendent
- 13. Mr. Dinamoni Borah, Junior Superintendent
- 14. Mr. Churchill R Marak, Junior Superintendent
- Mr. Navajit Kalita,
 Junior Superintendent
- 16. Mr. Nayanjyoti Baishya, Junior Superintendent.
- Ms. Sangeeta Deka Junior Accounts Officer
- Mr. Ratul Goswami
 Junior Accounts Officer
- Mr. Gagan Talukdar,
 Sr. Library and Information Assistant
- Ms. Richa Bismiter,
 Sr. Library and Information Assistant

Research and Development

The following Consultancy projects were undertaken in 2016-17 by IIIT Guwahati with Gautam Barua as the consultant:

- 1. Assam Govt. Finance Department Egov Unit IT Consultancy ₹5,000 for every two hours.
- 2. Assam Govt. Finance Department Commissioner of Taxes IT Consultancy ₹5,000 for every two hours.
- 3. National Insurance Academy, IT Consultant, ₹5, 00,000.00 for two years.
- 4. NEEPCO, IT Consultancy ₹6, 00,000.00 for one year.

The following Sponsored Projects were active in 2016-17:

- 1. Science and Engineering Research Board (SERB), Dept. of Science & Technology (DST) Development of Low Cost Flexible Biosensors- ₹32,18,600, Gaurav Saxena, FCF.
- 2. Netapp India Pvt. Ltd NetApp Faculty Fellowship ₹4,04,055, Gautam Barua, CSE.
- 3. MHRD through NEHU Establishment of a Design Innovation Centre (DIC) (Spoke) with NEHU (HUB)- ₹1,26,00,000, Institute Project.
- 4. Science and Engineering Research Board (SERB), Dept. of Science & Technology (DST) Adaptive Learning Models for Land-cover Classification with application in Remote Sensing based Monitoring of Agriculture and Forestry ₹ 16,28,000, Moumita Roy, CSE.
- 5. Science and Engineering Research Board (SERB), Dept. of Science & Technology (DST) Development of MAC associated schemes for large IEEE 802.15.4 based networks ₹ 16,98,740, Rakesh Matam, CSE.

The following Sponsored Projects were approved in 2016-17:

1. Science and Engineering Research Board (SERB), Dept. of Science & Technology (DST) - Bridging Network Science and HPC: Accelerating Big Data Centric Network Analytics using HPC Technologies – Budget proposed- ₹ 44,74,888, Dip Sankar Banerjee, CSE.

- 2. Science and Engineering Research Board (SERB), Dept. of Science & Technology (DST) A Secure and Scalable Inter-cloud Authorisation framework for resource sharing in Cloud Environment Budget proposed ₹49,85,526, Ferdous Ahmed Barbhuiya, CSE.
- 3. Indian Council of Social Science Research (ICSSR), New Delhi Impact of occupational mobility on socio-economic-demographic behaviour of tea garden labour community of Assam: A case study Budget proposed ₹4,98,800, Hari Kanta Choudhury, HSS.
- 4. Science and Engineering Research Board (SERB), Dept. of Science & Technology (DST) Transformations and special values of Gaussian hypergeometric series; and their connections to supercongruences Budget proposed- ₹ 19,40,910, Gautam Kalita.

Department of Computer Science and Engineering

1. Faculty:

- 1. Dr. Gautam Barua, Professor, Operating Systems, Networks, Database Management Systems.
- 2. Dr. Malay Ananda Dutta, Professor, Algorithms and Complexity.
- 3. Dr. Dip Sankar Banerjee, Asst. Professor, Parallel Computing, High Performance Computing, Runtime Systems.
- 4. Dr. Ferdous Ahmed Barbhuiya, Asst. Professor, Information Security, Intrusion Detection/Prevention System, Secure System Design, Privacy in Cloud, Firewall and Access Control.
- 5. Dr. Moumita Roy, Asst. Professor, Machine Learning, Soft Computing, Pattern Recognition, Remotely Sensed Image Analysis.
- 6. Dr. Nilkanta Sahu, Asst. Professor, Image and Video processing.
- 7. Dr. Rakesh Matam, Asst. Professor, Wireless Networks, Network Security, Privacy in Mobile Networks, Security in IoT.
- 8. Dr. Rohit Tripathi, Asst. Professor, Computer networks, Network Economics, Game Theory, Algorithm.
- 9. Dr. Sirshendu Das, Asst. Professor, Multicore Cache Architectures, Networkon-Chip and Formal Verification.
- 10. Dr. Subhasish Dhal, Asst. Professor, Information Security, Cloud Computing, Security in RFID, Key Distribution in Wireless Networks.
- 11. Gitmoni Saikia, Lecturer, AI, Machine Learning, Robotics, Algorithms.

12. Sanjay Moulik, Lecturer, Real-time Scheduling, Energy Aware Fair Scheduling, Optical Character Recognition, Software Engineering.

Talk from Expert

1. Title: New Frontiers in Cloud Computing for Big Data and Internet-of-Things (IoT)

Applications

Name of the Speaker: Prof. Rajkumar Buyya

Affiliation: Professor, University of Melbourne, Australia

Date: 14-Dec-2016

Short Term Course (Faculty Development Program)

1. Title: Cloud Computing with AWS

Course Coordinator: Ferdous Ahmed Barbhuiya

Number of participants: 15

Duration: 07-Aug-2016 to 13-Aug-2017

Publications

Journals

- 1. Rohit Tripathi and Gautam Barua "Dynamic internet pricing with service level agreements for multihomed clients." NETNOMICS: Economic Research and Electronic Networking 17.2 (2016): 121-156.
- 2. Shirshendu Das and H. K. Kapoor, "Dynamic Associativity Management in Tiled CMPs by Runtime Adaptation of Fellow Sets," IEEE Transactions on Parallel and Distributed Systems (TPDS), accepted in January 2017.
- **3.** Shirshendu Das and H. K. Kapoor, "A Framework for Block Placement, Migration and Fast Searching in Tiled-DNUCA Architecture," ACM Transactions on Design Automation of Electronic Systems (TODAES), 22(1), 2016.

Conferences

1. Utkarsh Dwivedi, Karan Ahuja, Rahul Islam, Ferdous Ahmed Barbhuiya, Seema Nagar, Kuntal Dey, "EyamKayo: Interactive Gaze and Facial Expression Captcha" International Conference on Intelligent User Interfaces Companion (IUI) 2017, ACM

- **2.** Karan Ahuja, Rahul Islam, Ferdous Ahmed Barbhuiya, Kuntal Dey, "A Preliminary Study of CNNs for Iris and Periocular Verification in the Visible Spectrum", International Conference on Pattern Recognition (ICPR) 2016, IEEE, 2016
- **3.** Karan Ahuja, Ruchika Banerjee, Kuntal Dey, Seema Nagar, Ferdous Ahmed Barbhuiya, "Eye Center Localization and Detection using Radial Mapping" IEEE International Conference on Image Processing (ICIP), 2016
- **4.** Karan Ahuja, Abhishek Bose, Kuntal Dey, Seema Nagar, Ferdous Ahmed Barbhuiya, "ISure: User Authentication in Mobile devices using Ocular biometrics in visible spectrum" IEEE International Conference on Image Processing (ICIP) Challenge Session, 2016
- **5.** Nazatul Sultan, Ferdous Ahmed Barbhuiya, "A Secure Re-encryption Scheme for Data Sharing in Unreliable Cloud Environment" IEEE World Congress on Services, 2016
- **6.** Dip Sankar Banerjee, Khaled Hamidouche, Dhabaleswar K. Panda, "Redesigning CNTK Deep Learning Framework on Modern GPU Enabled Clusters"; IEEE International Conference on Cloud Computing Technology and Science (CloudCom), 2016
- 7. Nikumani Choudhury, Rakesh Matam, M. Mukherjee, L. Shu "Distributed Beacon Synchronization Mechanism for 802.15.4 Cluster Tree Topology", WICON'16
- **8.** Nikumani Choudhury, Rakesh Matam "Distributed Beacon Scheduling for IEEE 802.15.4 Cluster-Tree Topology", IEEE INDICON'16
- **9.** Rakesh Matam, S. Shukla, "Local Connectivity Based Boundary Detection in Wireless Sensor Networks", IEEE Conference on Internet of Things (iThings) 2016
- **10.** Shirshendu Das and Hemangee K. Kapoor, "Dynamic Associativity Enabled DNUCA to Improve Block Localisation in Tiled CMPs," ACM/SIGAPP Symposium On Applied Computing (SAC), 2016, Pisa, Italy.
- 11. Shounak Chakraborty, Shirshendu Das and Hemangee Kapoor, "Static Energy Efficient Cache Reconfiguration for Dynamic NUCA in Tiled CMPs," 31st ACM/SIGAPP Symposium on Applied Computing (SAC), 2016, Pisa, Italy.
- 12. Abhijit Mondal, Satadal Sengupta, Bachu Rikith Reddy, M.J.V. Koundinya, Chander Govindarajan, Pradipta De, Niloy Ganguly and Sandip Chakraborty, "Candid with YouTube: Adaptive Streaming Behavior and Implications on Data Indian Institute of Information Technology Guwahati

Consumption", ACM SIGMM Workshop on Network and Operating Systems Support for Digital Audio and Video (ACM NOSSDAV) 2017

13. Gitimoni Saikia, Saroj Shivagunde, Vijaya V. Saradhi, Raghvendra Dhirendra Kannao, Prithwijit Guha, "Multiple kernel learning using data envelopment analysis and feature vector selection and projection", International Conference on Pattern Recognition (ICPR) 2016, IEEE, 2016

Department of Electronics and Communication Engineering

1. Faculty:

- 1. Dr. Bidisha Dasgupta, Asst. Professor, Microwave, Antenna.
- 2. Dr. G Aruna, Asst. Professor, Wireless and Mobile communications, MIMO Systems.
- 3. Dr. Kuntal Deka, Asst. Professor, Error Correcting Codes, Information Theory, Communications.
- 4. Dr. Mourina Ghosh, Asst. Professor, Current Mode Circuits, Bipolar and MOS Analog Integrated Circuits.
- 5. Dr. Rusha Patra, Asst. Professor, Image Processing, Optical Imaging, Biomedical Optics, Computer Vision.
- 6. Dr. Sanya Anees, Asst. Professor, Free space optical communication, Cooperative communications, Multiple-input multiple-output (MIMO) systems, and Visible Light Communications.
- 7. Dr. Shilpa, Asst. Professor, Wireless Sensor Networks.
- 8. Dr.Shovan Barma, Asst. Professor, Biomedical Signal Processing, Emotion Recognition (Based on Speech and EEG Signal), VLSI Design.
- Dr. Soumyajit Poddar, Asst. Professor, Digital VLSI Design, Photonic Networks on Chip, Architecture for Exascale Computing Systems, 3D-IC, Photonic Devices, Electronic Design Automation, Embedded Systems and Medical Electronics.
- 10. Dr. Sounak Roy, Asst. Professor, Analog and mixed signal circuits.

- 11. Dr. Surajit Panja, Asst. Professor, Networked Control Systems, Multi-agent Systems, and Systems Biology.
- 12. Amar Nath Yadav, Lecturer, Radio frequency integrated circuit, Millimeter wave integrated circuit, Antenna design, Metamaterial, Optical integrated circuit.
- 13. Mohd. Mansoor Khan, Electrical Machines and Drives, Control Systems, Advanced Instrumentation and Sensors, Opto-Mechanical Sensors, Fiber Optics and Photonics, Fiber Optic Lasers and All Optical Integrated Devices.

Valedictory Ceremony & e-Yantra Lab inauguration

Indian Institute of Information Technology Guwahati organized Valedictory Ceremony & e-Yantra Lab inauguration function conducted by IIT Bombay on 9 February, 2017. This lab is setup under e- Yantra project by IIT Bombay and sponsored by Ministry of Human Resource Development (MHRD) through the National Mission on Education through ICT (NMEICT).

Academic Talks

Title: An Overview of Research and Development at Facebook

Name of the speaker: Dhruba Borthakur

Affiliation: Software Engineer, Facebook, Menlo Park, California

Date: 11-05-16

Title: Compressed Sensing in Signal Processing Name of the speaker: Dr. Anirban Mukherjee Affiliation: Associate Professor, Dept. of EE, IIT Kharaapur

Date: 02-06-16.

Publications

Journals

1. S. Parida, C. Maiti, Y. Rajesh, K. K. Dey, I. Pal, A. Parekh, R. Patra, D. Dhara, P. K. Dutta, M. Mandal, "Gold nanorod embedded reduction responsive block copolymer micelle-triggered drug delivery combined with photothermal ablation for

targeted cancer therapy", Biochimica et Biophysica Acta (BBA) - General Subjects, 1861(1), 3039-3052, 2017.

- **2.** R. Patra and P. K. Dutta, "Parametric Reconstruction of Diffuse Optical Tomography using Gaussian Mixture Model and Genetic Algorithm", IEEE Journal of Selected Topics in Quantum Electronics, 22(3), 58-68, 2016.
- **3.** Surajit Panja, Sourav Patra, and Anirban Mukherjee, "Tweaking Metabolic Networks A Design Method", INAE Letters, vol. 1, no. 1, pp. 3-8, 2016.
- **4.** Xi Mei Chen, Shovan Brama, Sio Hang Pun, Mang I Vai, and Peng Un Mak, "Direct Measurement of Elbow-Joint-Angle Using Galvanic Couple System," IEEE Transactions on Instrument and Measurement, vol. 66, no. 4, pp. 757-766, Feb, 2017.
- **5.** A. N. Yadav and R. Bhattacharjee, "Balanced to Unbalanced Power Divider With Arbitrary Power Ratio," in IEEE Microwave and Wireless Components Letters, vol. 26, no. 11, pp.885-887, Nov. 2016.

Conferences

- **1.** G.Aruna, ''Performance Analysis of SSC and SEC Diversity Receivers in indoor MM wave Network'', IEEE-International Conference on Wireless Communications, Signal Processing and Communication Networks, DOI:10.1109/WiSPNET.2016.7566513, 15 September 2016.
- **2.** Anamiya Bhattacharya, Bidisha Dasgupta, "A Novel Compact Cylindrical Dielectric Resonator Antenna with Radiating Slots for X-Band Applications", IEEE/MTT-Society Asia Pacific Microwave Conference (APMC 2016), New Delhi, 5-9 December, 2016.
- **3.** Anamiya Bhattacharya, Bidisha Dasgupta, "A Simple Frequency Reconfigurable Monopole Antenna for Ultra-Wideband Applications", International Union of Radio Science (URSI-RCRS 2017), Tirupati, 1 4 March, 2017.
- **4.** S. Rao and R. Shorey, "Efficient device-to-device association and data aggregation in industrial IoT systems," Proc. 9th International Conference on Communication Systems and Networks (COMSNETS), Bengaluru, India, Jan. 2017, pp. 314-321.

- **5**. Mehfishan Nishat, Madhurjya Bora, Gitartha Kashyap, Xutong Cui, Sio-Hang Pun, and Shovan Barma, "Analysis of Neural Electrical Activities During Elicitation of Human Emotion based on EEG", IEEE ICSC, Noida, India, 26-28 Dec. 2016.
- **6.** Yang-Yen Ou, Ta-Wen Kuan, An-Chao Tsai, Shovan Barma, Jhing-Fa Wang, and Jheng-Ping Chiou,"SUFFERING Understanding System Based on Facial Expression and Human Action", ICOT, Melbourne, Australia, 17-20 Dec. 2016.
- **7.** Kuntal Deka, A. Rajesh, P.K. Bora, "A cycle-based rate-compatible puncturing technique for non-binary LDPC codes", International Conference on Signal Processing and Communications (SPCOM), IISC Bangalore, 12-15 June 2016.
- **8.** Kuntal Deka, A. Rajesh, P.K. Bora "A linear model for the iterative decoding of random LDPC codes in the high SNR region" 9th International Symposium on Turbo Codes and Iterative Information Processing (ISTC), Brest, France, 5-9 Sept. 2016.
- **9.** A. N. Yadav and R. Bhattacharjee, "Balanced to Unbalanced Out of Phase Equal Power divider for Wide-band Application," 2016 Asia-Pacific Microwave Conference (APMC), New-Delhi, 2016.
- **10.** A. N. Yadav and R. Bhattacharjee, "Balanced-to-Unbalanced Out-of-Phase Wilkinson Equal Power Divider," 2017 Twenty Third National Conference on Communication (NCC), Chennai, 2017.
- **11.** MM Khan and RK Sonkar, "Analytical Model for gain modulation in Thulium doped fiber amplifiers (TDFA) operating in S-Band regime", International conference on light and light based technologies, OSI-Tezpur University, 26-28 November, 2016.
- **12**. R Dhawan, MM Khan, RK Sonkar, "Study of Light Coupling Losses from Single Mode Fiber to Hollow Core Photonic Crystal Fiber (HCPCF)", International conference on light and light based technologies, OSI-Tezpur University, 26-28 November, 2016.

Department of Sciences and Mathematics

1. Faculty:

- 1. Dr. Gautam Kalita, Assistant Professor, Number Theory, Algebra, Cryptography.
- 2. Dr. Anuradha Jha, Assistant Professor, Numerical solutions of ordinary and partial differential equations, Singular perturbation problems.
- 3. Dr. Amita Sharma, Assistant Professor, Number Theory, Algebra, Cryptography.

Publications

Journals

1. Gautam Kalita & Arjun Singh Chetry, Congruences for generalized Apéry numbers and Gaussian hypergeometric series, Res. in Number Theory, 3, 1-15 (2017).

Conferences

- 1. Gautam Kalita, Certain transformation formulas for Gaussian hypergeometric series, Proceedings of IMBIC, Vol 5, 31-36 (2016).
- 2. Gautam Kalita, Certain transformations and values of Gaussian hypergeometric series, The International Conference of The Indian Mathematics Consortium in cooperation with American Mathematical Society (IMCAMS 2016), Banaras Hindu University, Varanasi, Uttar Pardesh, India, December 14-17, 2016.
- 3. Gautam Kalita, Certain transformation formulas for Gaussian hypergeometric series, 10th International Conference of IMBIC on Mathematical Sciences for Advancement of Science and Technology, Institute for Mathematics, Bioinformatics, Information Technology and Computer Science, Kolkata, December 21-23, 2016.
- 4. Amita Sharma, The Black-Litterman model, The second conference and workshop on Statistical Methods in Finance, Chennai Mathematical Institute, Chennai, India, December 18th 22nd, 2016.

Department of Humanities and Social Sciences

1. Faculty:

- 1. Dr. Suranjana Barua, Asst. Professor, Sociolinguistics, Discourse/ Conversation Analysis, English Language Teaching, Translation Studies, Gender Studies.
- 2. Dr. Rajarshi Mitra, Asst. Professor, Colonial and Postcolonial Studies, Colonial Culture, Anglo-Indian novels, Animal Studies, Urban Studies.
- 3. Dr. L David Lal, Asst. Professor, Politics of Identity, Caste Conflicts, Socio-Political History of Marginalised, Public Policy.
- 4. Dr. kaveri Deb, Asst. Professor, International Trade, Development Economics, Applied Econometrics.
- 5. Dr. Hari K. Choudhury, Asst. Professor, Issues related to Development Economics, Health Economics and Experimental Economics.

ACADEMIC EVENTS

I A Short Term Course on Research Methodology was organized by the Department of Humanities and Social Sciences from 7 to 13 December, 2016. The following academicians from different institutes were invited as Resource Persons:

- 1. Prof Madhurjya Prasad Bezbaruah (Dept. of Economics; Gauhati University)
- 2. Prof Chandan Kumar Sharma (Head, Dept. of Sociology; Tezpur University)
- 3. Prof. Rohini M. Punekar (Dept. of HSS; IITG)
- 4. Prof Kalpana Sarathy (Dept of Social Work; TISS Guwahati)
- 5. Dr. Debdulal Dutta Roy (Psychological Research Unit, ISI; Kolkata)
- 6. Dr Joydeep Baruah (OKD Institute of Social Change and Development, Guwahati)
- 7. Dr Jagannath Ambagudiya (Dept of Political Science; TISS Guwahati)

In addition to the above external members, faculty members of Department of Humanities and Social Sciences, IIITG too conducted the following sessions as Resource Persons:

Suranjana Barua. Language Research. (Session 3: 7/12/2016)

Hari K Choudhury. Quantitative research – Regression/Factor Analysis and Use of Statistical Package for the Social Sciences. (Session 13 and Session 14 on 12/12/2016)

Kaveri Deb. Quantitative Research. (Session 2: 7/12/2016)

L David Lal. Tools and Techniques of Qualitative Research (Session 5: 8/12/2016)

Rajarshi Mitra. Literary Research (Session 9: 11/12/2016)

A total of 23 participants from various institutes from Assam and including research scholars from IIITG had attended the course.

II A field Trip for Students of HS 304 (Science Technology and Society) and HS 404 (Language, Cognition and Culture II) was organized by Dept. of HSS on 19 March, 2017.

Publications

Jounals

- 1. Suranjana Barua. 'Locating Exclusion in Male Peer Talk'. Journal of Exclusion Studies Vol. 7, No. 1, 2017, 76-89. ISSN 2231-4547 (Print); 2231-4555 (Online).
- 2. Kaveri Deb and B. Sengupta 2017. "Value-added Trade and Empirical Distributions of RCA Indices." Journal of Quantitative Economics. DOI: 10.1007/s40953-017-0071-x.
- 3. Kaveri Deb and B. Sengupta. 2017. "On Empirical Distribution of RCA Indices." Society and Management Review, 6(1): 23-41. DOI: 10.1177/2277975216676125.
- 4. Kaveri Deb and W.R. Hauk. 2017. "RCA Indices, Multinational Production and the Ricardian Trade Model." International Economics and Economic Policy, 14: 1-25. DOI: 10.1007/s10368-015-0317-z. Online version published on 9th July 2015.
- 5. L. David Lal. "Hindu Social Order", in Structure of Indian Society, IGNOU Reader for BR Ambedkar: Society and Culture, 2017.

- 6. L. David Lal. "Criminalisation of Politics: Caste, Land and the State" in Seminar Issue No. 678- The Bihar Ballot, pp.76-77, 2016.
- 7. Rajarshi Mitra. "Book Review: Educating Seeta: Anglo-Indian Romance as Political Allegory". Journal of Anglo Indian Studies 16. 2 (2016).
- 8. Rajarshi Mitra. "Bucolic Bratas: Women and Religious Rituals at Home". Invited Paper for *Bi-annual Magazine of the B Baruah College Women's Forum (*March 2017).

Conferences:

- Suranjana Barua. 'Style of Academic Writing: Issues of Clarity, Consistency and Coherence'. Invited lecture at the Modular Workshop on Academic Writing, Data Analysis and Report Writing Skills organised by Unit for Research and Development, Tata Institute of Social Sciences, Guwahati Campus on 20-25 March, 2017.
- 2. Dimple Choudhury and Suranjana Barua. 'Language Endangerment: Tibeto-Burman Languages of Northeast India'. National Conference on Language Diversity, Endangermant and Vitalization: Agenda and Roadmap. 21 January, 2017. National Law University. Delhi.
- 3. Suranjana Barua 'Food mnemonics and Identity Construction'. National Seminar on Food Cultures of India held on 1-2 December, 2016 by Department of Cultural Studies, Tezpur University, India and Indira Gandhi Rashtriya Manav Sangrahalaya (IGRMS), Bhopal, at Tezpur University, Assam.
- 4. L. David Lal. 'Understanding Citizenship through Caste Lens', research paper in the International Conference on Citizenship and Violence, organised by Centre for the Study of Citizenship, Wayne State University, United State of America, 30th March-1st April, 2017.
- 5. L. David Lal. 'Methods of Data Analysis in Qualitative Research', special invited lecture at the Modular Workshop on Academic Writing, Data Analysis and Report Writing Skills organised by Unit for Research and Development, Tata Institute of Social Sciences, Guwahati Campus on 20-25 March, 2017.
- 6. L. David Lal. 'Identity, Spatiality and History: Reading a social reform movement of 19th century Travancore kingdom', special invited lecture at The Department of History, University of Calcutta, Kolkata, 27th February, 2017.

Editorial:

Suranjana Barua. On Editorial Committee for Language and Language
 Teaching Language and Language Teaching. July 2016 (Vol 5, Number 2, Issue 10) and January 2017 (Vol 6 Number 1, Issue 11). (ISSN: 2277-307X)

Campus

Construction work on the campus of 200 bighas (about 70 acres) in Bongora and Sontola villages in Kamrup (rural) district started in December 2015. Work is going on at the campus. The Master Plan for the campus is enclosed at Appendix-1.

The following Works are under implementation at the campus. The completion date is 31 December, 2017 for the buildings.

SI. No	Name of the Building	Area (Sq M)	Awarded to	Awarded Cost
1	400 capacity Boys' Hostel	11057 sqm	M/s Arunoday Construction Co. (P) Ltd	₹ 33,50,95,000.18
2	100 capacity Girls' Hostel	3512 sqm	M/s Shree Gautam Construction Company Ltd.	₹ 12,77,02,595.71
3	2 Blocks of faculty Residences (24 flats each)	8736 sqm	M/s Tribeni Constructions Ltd.	₹ 23,05,86,417.82
4	Academic cum Administrative Building	9379 sqm	M/s M.P. Khaitan	₹ 42,05,60,904.32
5	Land Filling and Roads	Land Filling: 25500 sqm Road:1 Km	Through Assam PWD	₹ 2,50,00,000.00



Under Construction Faculty Flats:



Under Construction Student Hostel:

Library

The IIITG Library is equipped with a good number of books and electronic resources like e-journals, e-conference proceedings, e-magazines and CD/DVDs to cater



to the educational and research needs of its students, research scholars, faculty members and all other staff. The IIITG library has subscribed to IEEE (ASPP+POP) and ACM Digital Library packages to meet the additional information requirements by the research scholars and faculty members. The

routine services of the library have been automated with the help of TCS ION Software. The Library provides support to its users through lending text books, reference services, information deployment and notification through e-mails, OPAC, reading room facility etc. Further, in situations when any sought study material is not available in the library it tries to arrange such materials from other Institution's libraries also.

The overall collections of IIITG Library at present are as follows:-

Books : 1254 Nos.

CD/DVD : 78 Nos.

Newspaper : 3 Nos.

e- Journal : 233 Nos.

e- Magazine : 12 Nos.

e- Conference proceeding : 3698 Nos.

Other Documents : 10 Hosted Content

69 SIG Newsletters

Student's Activities

The following are the Office Bearers connected with Student Affairs:

Faculty Advisory Board:

- 1. Dr. Surajit Panja, Chairperson and Coordinator, Academic and Student Affairs.
- 2. Dr. Shovan Barma, Coordinator, Technical Board and Clubs.
- 3. Dr. Soumyajit Poddar, Associate Coordinator, Technical Board and Clubs.
- 4. Dr. Subhabrata Paul, Associate Coordinator, Technical Board and Clubs.
- 5. Dr. Hari K. Choudhary, Coordinator, Sports Affairs.
- 6. Md. Mansoor Khan, Associate Coordinator Sports Affairs.
- 7. Dr. Suranjana Barua, Coordinator, Cultural Affairs.
- 8. Dr. L. David Lal, Associate Coordinator Cultural Affairs.
- 9. Dr. Rusha Patra, Associate Coordinator Cultural Affairs.

Students Gymkhana Council:

- 1. Govindu Fathima Jayadeep, President.
- 2. Aashish Kumar Singh, Vice President.
- 3. Shubham Kumar Jha, General Secretary Technical Board.
- 4. Sudhanshu Upadhyay, General Secretary Cultural Board.
- 5. Kundrapu Dilip Kumar, General Secretary Sports Board.
- 6. Anamiya Bhattacharya, General Secretary Welfare Board.

The following events pertaining to student's extra-curricular activities took place in the year 2016-17.

DATES	EVENT		
9 August- 23 August, 2016	<u>Azadi 70 – Yaad Karo Kurbani (Freedom Fortnight)</u>		
	(celebration as per MHRD notification)		
i)12 August, 2016	i) IIITG Perspective Lecture Series on Patterns of		
	Resistance: British Imperialism and India's North East		
	Speaker by noted historian Prof Arupjyoti Saikia (Head, Dept. of HSS, IIT Guwahati)		
ii) 15 August, 2016	") • H		
	ii) Cultural programme by the students of IIITG		
iii) 23 August, 2016	iii) Mass Recitation of National Anthem by all		
	students, faculty members and staff of IIITG		
9 September, 2016	First Students' Gymkhana Election of IIITG		
	The Art of Living lecture by ShriVishnu Prakash		
20 October, 2016	(Faculty of The Art of Living)		
21-23 October, 2016	3 day pilot programme: The Art of Living		
24 October, 2016	The first official students' newsletter – IIITG Herald – launched		

31October -6	Rashtriya Ekta Saptah (celebration as per MHRD				
November, 2016	notification)				
6 November	Homeanory				
	IIITG Prize Money Elocution Competition				
	National Unity Day				
<u>6 November, 2016</u>	IIITG celebrated National Unity Day by organizing a short marathan "Run for Unity".				
	<u>Constitution Day</u> (celebration as per MHRD				
	notification)				
26 November, 2016	Reading of Preamble and Fundamental Duties as enshrined in Article 51 A of Constitution of India with faculty and students				
	Students of IIITG participated in First Inter IIIT Sports Meet 2016 held at IIITDM Kancheepuram.				
12 -15 December, 2016	i. IIITG secured 3rd position in Men Championship and Overall Championship.				
	ii. Kummari Anand, student of IIITG received best player award in Carrom competition.				
	Republic Day celebration in IIITG Hostel				
26 January, 2017	i) Cultural programme ii) Friendly sports event between faculty and students				
12 February, 2017	IIITG organized its first Coding Competition				
	CodeThrill v 1.0;				
3-4 March, 2017	IIITG Yuvaan – the Annual Techno-Cultural and Sports fest organized				

	The first Yearbook of IIITG – Genesis – released by Director, Prof Gautam Barua at Kalashetra, Guwahati at Yuvaan 2017.
2 March 2017	IIITG organized its first Circuit Design Competition
3 March, 2017	Electrowarfare v 1.0



Gymkhana Election, 09.09.2016



Art of living lecture 20-10-2016.



The first Yearbook of IIITG, Yuvaan-released by Director, Prof. Gautam Barua.



Cultural program @Yuvaan 2017.



IIITG's Contingents of First Inter IIIT Sports Meet held at IIITDM Kancheepuram 12-15 December 2016.



Run for Unity 06-11-2016

Budget and Expenditure Summary

The Budget and expenditure summary for the year are as follows:

Item	Recurring (₹)	Non-Recurring (₹)
Balance B/F from 2015-16	0.00	8,69,88,360.00
Expenditure 2016-17	7,83,70,292.00	22,69,88,360.00
Grant in Aid 2016-17	2,50,00,000.00	28,54,00,000.00
Internal Revenue	3,78,62,880.00	-
Balance carried over	(-) 1,55,07,412.00	14,54,00,000.00

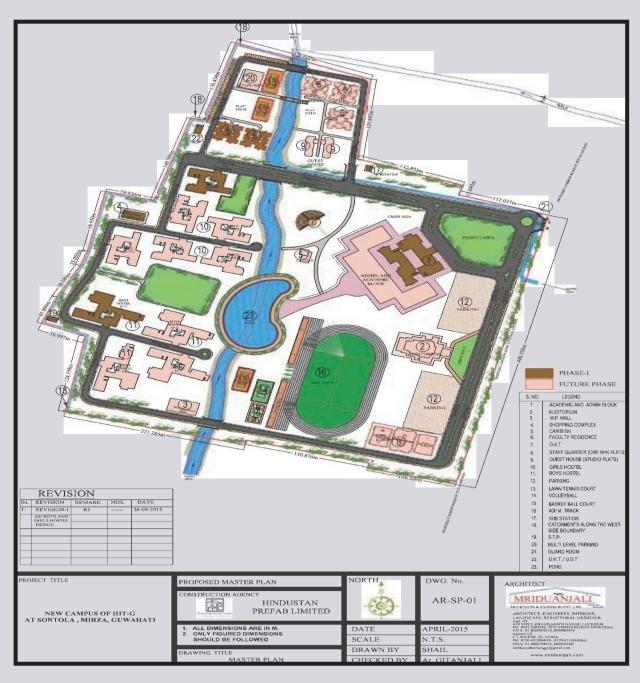
Sources of Funds (including carry-over of funds)

Item	Recurring (₹)	Non-Recurring (₹)
Govt. of India	2,50,00,000.00	14,00,00,000.00
Govt. of Assam	-	14,69,88,360.00
Industry Partners	-	8,54,00,000.00
Income from Interest	47,22,984.00	-
Income from Fees and others	3,31,39,896.00	-

A summary of the Annual Accounts is given in Appendix 2.

Appendices

Appendix 1– Campus Master Plan



ii. Appendix 2–Summary of the Annual Accounts of 2016-17

Balance sheet

[Amount in ₹]

SOURCES OF FUNDS	Schedule	Current Year	Previous Year
CORPUS/CAPITAL FUND	1	486,791,461.95	285,791,927.68
DESIGNATED/ EARMARKED / ENDOWMENT FUNDS	2	1,722,375.00	11,560,579.27
CURRENT LIABILITIES & PROVISIONS	3	170,453,693.19	97,568,847.82
TOTAL		658,967,530.14	394,921,354.77

APPLICATION OF FUNDS	Schedule	Current Year	Previous Year
FIXED ASSETS	4		
Tangible Assets		32,316,652.68	36,192,462.68
Intangible Assets		1,576,972.00	733,436.00
Capital Works-In-Progress		468,345,009.00	248,866,029.00
INVESTMENTS FROM EARMARKED / ENDOWMENT FUNDS	5		
Long Term		-	-
Short Term		-	-
INVESTMENTS - OTHERS	6	-	-

TOTAL		8,794,853.00 658,967,530.14	5,213,481.00 394,921,354.77
LOANS, ADVANCES &	8	0.704.052.00	E 012 401 00
CURRENT ASSETS	7	147,934,043.46	103,915,946.09

Income and Expenditure

[Amount in ₹]

		[Amount in ₹]		
Particulars	Schedul e	Current Year	Previous Year	
INCOME				
Academic Receipts	9	-	-	
Grants / Subsidies	10	25,000,000.00	20,000,000.00	
Income from investments	11	5,328,443.00	14,238,984.00	
Interest earned	12	-	-	
Other Income	13	33,118,811.27	24,411,818.73	
Prior Period Income	14	-	-	
TOTAL (A)		63,447,254.27	58,650,802.73	
EXPENDITURE				
Staff Payments & Benefits (Establishment expenses)	15	49,366,825.00	36,845,302.45	
Academic Expenses	16	3,942,434.00	1,473,395.00	
Administrative and General Expenses	17	15,523,532.00	11,442,002.00	
Transportation Expenses	18	4,070,179.00	3,440,574.00	
Repairs & Maintenance	19	5,991,457.00	4,082,941.28	

Finance costs	20	-	3,528.00
Depreciation	4	5,102,810.00	4,867,452.00
Other Expenses	21	-	-
Prior Period Expenses	22	2,300,694.00	1,363,060.00
TOTAL (B)		86,297,931.00	63,518,254.73
Balance being excess of Income over Expenditure (A-B)		(22,850,676.73)	(4,867,452.00)
Transfer to / from Designated Fund			
Building fund			
Others (specify)			
Balance Being Surplus / (Deficit) Carried to Capital Fund		(22,850,676.73)	(4,867,452.00)

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2017

						Amount in Rupees	
REC	EIPTS	Current Year	Previous		PAYMENT	Current	Previous
			Year		S	Year	Year
l.	Opening			١.	Expenses		
	Balance						
	a) Cash				a)		
	Balance	218.00	5,359.00		Establish	49,366,825	38,217,724.
	S				ment	.00	45
	b) Double				Expenses		
	b) Bank Balance				b) Academi	3,942,434.	1,473,395.0
	Balarice				C	00	1,4/3,3/3.0
					Expenses		O
	i. In				C)		
	Current	(43,240,293.9	49,305,329		Administr	15,523,532	11,432,640.
	account	1)	.00		ative	.00	00
	S	.,			Expenses		
	ii. In				d) d		
	Deposit	146,887,169.	196,692,20		Transport	4,070,179.	3,440,574.0
	account	00	0.00		ation	00	0
	S				Expenses		
	iii.				e) Repairs		
	Savings	268,853.00	-		&	5,991,457.	4,082,941.2
	account				Maintena	00	8
	S				nce		
II.	Grants				f) Prior		
	Receive				period	-	-
	d Franc				expenses		
	a) From Govern	165,000,000.	120,000,00		g) Finance		3,528.00
	ment of	00	120,000,00		Cost		3,320.00
	India		0.00		CO31		
	b) From			11.	Payments		
	State	100,000,000.	_		against	32,878,304	25,651,078.
	Govern	00			Earmarke	.27	73
	ment				d/		
					Endowm		
					ent Funds		

	c) From Industry Partners	45,400,000.0 0	13,000,000		Payments against Sponsore d Projects/S chemes Payments against Sponsore d Fellowshi ps/Schola rships Investme nts and Deposits made	-	-
III.	Academ ic Receipts	-	-		a) Out of Earmarke d/Endow ments funds	-	-
IV.	Receipts against Earmark ed/ Endowm ent Funds	23,040,100.0 0	17,564,204 .00		b) Out of own funds (Investme nts- Others)	-	-
V.	Receipts against Sponsor ed Projects/ Schemes	-	-	V I.	Term Deposits with Schedule d Banks	-	-
VI.	Receipts against sponsore d Fellowshi ps and	-	-	V II.	Expenditu re on Fixed Assets and Capital		

	Scholars				Works - in-		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	hips				Progress		
VII.	Income				a) Fixed		
	on				Assets	2,572,550.	11,409,360.
	Investme					00	68
	nts from						
	a)				b)		
	Earmark	-	-		Capital	221,277,66	246,209,493
	ed/Endo				Works- in-	0.00	.00
	wment				Progress		
	funds						
	b) Other			V	Other		
	investme	-	-	Ш	Payments	-	-
	nts				including		
					statutory		
					payments		
VIII	Interest						
	received						
	on						
	a) Bank			IX	Refunds		
) Deposits	5,328,443.00	14,238,984		of Grants		
	·		.00				
	b) Loans			Х	Deposits		
	and				and	19,375,339	7,616,403.0
	Advanc				Advance	.50	0
	es				S		
	c)			ΧI	Other		
	Savings	_	_		Payments	_	_
	Bank				,		
	Account						
	\$						
IX.	Investme			ΧI	Closing		
	nts	-	-	/ .	balances		
	encashe				15 6 6 10 0 3		
	d						
Χ.	Term				a) Cash		
	Deposits	-	-		in hand	10,276.00	218.00
	with					0,2, 0,00	= . 0.00
	Schedul						
	ed Banks						
	od bariks						

			1		1	1	
	encashe						
	d						
XI.	Other income (includin g Prior Period Income)	33,118,811.2 7	24,411,818 .73		b) Bank balances		
XII.	Deposits and Advanc es	27,129,022.8 7	18,235,189 .50		In Current Accounts	36,110,610 .09	(43,240,293 .91)
XIII	Miscella neous Receipts includin g Statutory Receipts	-	-		In Savings Accounts	10,766,350 .37	268,853.00
XI V	Any Other Receipts - Capital Work in Progress refund	-	-		In Deposit Accounts	101,046,80 7.00	146,887,169 .00
TOT				TO	TAL		
		502,932,323. 23	453,453,0 84.23			502,932,32 4.23	453,453,08 4.23

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