

Annual Report 2012, August – 2013, July

Annual Report

August, 2012 – July, 2013

Department of Computer Application

JIS COLLEGE OF ENGINEERING

BLOCK 'A', PHASE 'III', KALYANI, NADIA – 741235

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CHAPTER - 1

Introduction and Objectives

Department of Computer Application in JIS College of Engineering has the privilege of conducting a course structure which is totally industry based. The department runs MCA course and has an intake capacity of 60 students. The faculty members are experts in their respective fields and perform a high level of research and development work. The department has its Departmental Committee and BOS which develops the syllabus and we hope that by its autonomous stature it will eliminate the academic gap that exist between industry and institution.

The resolution of the department is to perfectly obey and abide by the vision “Igniting Minds Empowering lives” and the vision statement of disseminating and generating knowledge among students so as to make them industry-ready with State-of-the-Art skill set to the extent possibility. Influenced and inspired by the global trends in expansive application and intensive research opportunities in Information Science, Technology and Management, the Department of Computer Application has been working with dual objectives of strengthening R & D activities as well as Industry Institute initiatives.

Amidst a relatively young department, the departmental faculty members contributed their works collectively in important research Forum like IEEE, ACM, and Springer etc. Continuous encouragement from the Authority of the Institution enabled the faculty members of the department to attend and contribute in various conferences, symposiums, seminars and workshops organized by various international forums like IEEE CS Society, IEEE ED Society. The faculty members are involved in Professional Society Activities and associated with various research forums.

On the other hand, guided by the Institution Authority the departmental Faculty members are associated in establishing/ participating/ conducting IBM Centre of Excellence, Oracle DB Admin Workshop, Infosys Campus Connect Programme, WIPRO Mission 10X Learning Approach and Microsoft Faculty Connect Symposiums.

The department is eagerly expect advice / guidance / suggestions from everyone so as to work-out its weaknesses and can satisfy the Institutional needs and desires in a better way.

CHAPTER - 2

Human Resources

2.1 List of Departmental Faculty Members (As per joining date as Faculty)

| Sl. No. | Faculty Name | Designation | Qualification |
|---------|-----------------------------|----------------------|---------------|
| 1 | Mr. Manas Paul | HOD, Asst. Professor | M.Sc., MCA |
| 2 | Mr. Supriya Chakraborty | Asst. Professor | M. Tech., MCA |
| 3 | Dr. Subhranil Som | Asst. Professor | PhD, MCA |
| 4 | Mr. Bikramjit Paul | Asst. Professor | MCA |
| 5 | Mr. Sumanta Bhattacharya | Asst. Professor | M. Tech., MCA |
| 6 | Mrs. Joyita Goswani (Ghosh) | Asst. Professor | MCA |
| 7 | Mr. Saurab Dutta | Asst. Professor | M. Tech., MCA |
| 8 | Mr. Sanjib Das | Asst. Professor | MCA |
| 9 | Mr. Soumen Nandi | Asst. Professor | MCA |
| 10 | Mrs. Anasua Joardar | Asst. Professor | MCA |
| 11 | Mr. Rajdeep Chowdhury | Asst. Professor | MCA |

2.2 Institutional Responsibilities

| Sl. No. | Faculty Name | Institutional Responsibilities / Committee Member |
|---------|-------------------------|---|
| 1. | Mr. Manas Paul | <ol style="list-style-type: none"> 1. Head of the Department 2. Examination Committee member, JISCE & CMS 3. Central Library committee member 4. Member of Academic Council 5. Member of the preparation committee of the project on Cloud Computing |
| 2. | Mr. Supriya Chakraborty | <ol style="list-style-type: none"> 1. Next Head, Dept. of C.A. 2. Finance Chair of IC3A - 2013. 3. Member of Publication of N3CD 2013. |

| | | |
|----|-------------------|--|
| | | <ol style="list-style-type: none"> 4. SPOC of JISCE for Web Site Development/ Maintenance. 5. Member of Extended Placement Committee, JISCE 6. Member of Council of Sports and Extra Curriculum Activity, JISCE. 7. Organizing member of Jodh Singh Trophy. 8. Member of Organizing committee of Annual Sports of JISCE. 9. Member of Infosys Campus Connect Programme. 10. Member of EDUSAT. 11. Coach/Official Member of the WBUT Cricket League – Student competition. 12. Technical Support Staff for the student cricket tournament for Siliguri Cricket League and Heritage Cricket League. In both cases, our college team secured runners trophy. |
| 3. | Dr. Subhranil Som | <ol style="list-style-type: none"> 1. Program committee member of IC3A -2013. 2. Member of Anti Ragging committee 3. Member of R & D cell of JISCE 4. Chairman of parent – teachers committee 5. Member of student welfare committee 6. Member of Council of Sports and Extra Curriculum Activity, JISCE, teacher –in-charge of community connect club, teacher member of science club, teacher member of environmental club, teacher member of sports club of JISCE |

| | | |
|----|--------------------------|---|
| | | <ol style="list-style-type: none"> 7. Secretary of Sardar Jodh Singh Trophy,2012-2013 8. Captain of JISCE cricket team for Sardar Jodh Singh Trophy,2012-2013 9. Member of organizing committee of Annual Sports of JISCE. 10. Coach cum selector of the WBUT Cricket League – Student competition for JISCE 11. Technical Support Staff for the student cricket tournament for Siliguri Cricket League and Heritage Cricket League. In both cases, our college team secured runners trophy. |
| 4. | Mr. Bikramjit Pal | <ol style="list-style-type: none"> 1. Co-convener IC3A,2013 |
| 5. | Mr. Sumanta Bhattacharya | <ol style="list-style-type: none"> 1. Departmental Exam Cell Representative 2. Member of the Publicity Committee for the 1st International Conference on Non Conventional Energy (ICONCE-2014); January 2014; organized By JISCE – Kalyani |
| 6. | Mr. Rajdeep Chowdhury | <ol style="list-style-type: none"> 1. In-charge, Student Affairs, JISCE 2. Member, Anti-Ragging Committee, JISCE 3. Member, Extended Placement Cell, JISCE 4. Member, Council of Sports and Extra Curriculum Activity, JISCE 5. In-charge, Art and Literary Society, JISCE 6. Member, Music Club, JISCE 7. Member, Advisory Committee, Annual Fest 8. Member, Advisory Committee, Fresher's Welcome Event |

| | | |
|-----|-----------------------------|---|
| | | <p>9. Member, Organizing Committee, 6th Annual Sports, JISCE</p> <p>10. Member, Organizing Committee, 2nd Sardar Jodh Singh Trophy, JIS Group</p> <p>11. Member Secretary, Alumni Association, JISCE</p> <p>12. Coordinator, Department of Computer Application, JISCE for Microsoft Ed-Vantage Program and Microsoft Innovation Centre</p> <p>13. SPoC, Infosys Campus Connect Program</p> <p>14. Convener, Infosys Campus Connect–Train The Trainer Workshop on “Web Applications Development Using J2EE Framework”</p> <p>15. Coordinator, Industry Visit, Infosys Limited, Bhubaneswar Development Center</p> <p>16. Member, Program Committee, IC3A 2013</p> <p>17. Member, Program Committee, N3CD 2013</p> <p>18. Member, MHRD FAST COE–ACUMEN NEW</p> <p>19. Editor, Voyage–Annual Magazine, JISCE</p> <p>20. Editor, Newsletter, JISCE</p> |
| 7. | Mr. Saurab Dutta | 1.Member Of JISCE cricket team, Sardar Jodh Singh Trophy,2012-2013 |
| 8. | Mr. Saumen Nandi | 1.Member Of JISCE cricket team, Sardar Jodh Singh trophy,2012-2013 |
| 9. | Mr. Sanjib Kumar Das | Nil |
| 10. | Mrs. Joyita Goswami (Ghosh) | Nil |
| 11. | Mrs. Anasua Joardar | Nil |

2.3 Departmental Responsibilities

Administration and overall monitoring was carried out by the Head of the Department. The liability of the department is carried to the next senior most members in absence of the H.O.D. in decreasing order of the joining date to the institution as per order of the higher management. The departmental responsibilities were segmented by forming various departmental committees, details of which is given in Chapter – 6.

2.4 Expert Member/ Invited Talk / Resource Person

Mr. Rajdeep Chowdhury is invited as an Expert Member for Invited Talk on “MCA – Admission Eligibility and Career Opportunities” in Career Plus Live at DD Bangla Television Channel.



2.5 Members of Professional Body

| Professional Body | Members | Type of Membership |
|-------------------|---|--------------------|
| IEEE | Dr. Subhranil Som | Life Member |
| IACSIT | Dr. Subhranil Som Mr. Sumanta Bhattacharya | Annual Member |
| FOSET | Mr. Manas Paul | Life Member |

| | | |
|--|--|---------------|
| FOSET | <p>Mr. Supriya Chakraborty</p> <p>Dr. Subhranil Som</p> <p>Mr. Sumanta Bhattacharya</p> <p>Mr. Rajdeep Chowdhury</p> <p>Mrs. Joyita Goswami (Ghosh)</p> <p>Mrs. Anasua Joardar</p> <p>Mr. Saurab Dutta</p> <p>Mr. Saumen Nandi</p> | Life Member |
| CSI | <p>Mr. Bikramjit Pal</p> <p>Mr. Sumanta Bhattacharya</p> <p>Mr. Rajdeep Chowdhury</p> <p>Mrs. Joyita Goswami (Ghosh)</p> <p>Mrs. Anasua Joardar</p> | Life Member |
| Indian Science Congress | <p>Mr. Bikramjit Pal</p> <p>Mr. Sumanta Bhattacharya</p> | Life Member |
| Internet Society | Mr. Sumanta Bhattacharya | Global Member |
| Indian Society for Technical Education | Mr. Sumanta Bhattacharya | Life Member |
| ACM | Mr. Supriya Chakraborty | Annual Member |

CHAPTER – 3

Scientific Research and Infrastructure

3.1 Awards

3.1.1 Mr. Rajdeep Chowdhury is Awarded Gold Certificate in Infosys Campus Connect INSPIRE – Faculty Excellence Awards 2013 Grand Final

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani was declared Winner in Infosys Campus Connect “INSPIRE – Faculty Excellence Awards 2013” Grand Final, held on 25th July, 2013, organized by Infosys, at Infosys Bhubaneswar DC.

Mr. Chowdhury was awarded with Gold Certificate, Event Trophies and Event Certificate of Appreciation in Infosys Campus Connect “INSPIRE – Faculty Excellence Awards 2013” Grand Final.

Before participating in the Grand Final, Mr. Chowdhury had already been declared Winner in the College Level, as well as the Regional Level, for which he was given Certificate of Merit respectively.



3.1.2 Mr. Rajdeep Chowdhury, Mr. Amitava Ghosh and Mr. Harsh Vardhan Mandhyan win 2nd Prize in 4th All India Inter Engineering College Academic Meet 2013

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, Mr. Amitava Ghosh, Student, Department of Computer Application and Mr. Harsh

Vardhan Mandhyan, Student, Department of Computer Application were awarded 2nd Prize for their Paper titled “Geo-Encryption Technique for Exchanging Positional Parameters in Shuffled Order Through QR Coded Image” in the Computer Science and Engineering and Information Technology [C&I] Category of 4th All India Inter Engineering College Academic Meet 2013, held on 22nd and 23rd March, 2013, organized by Forum of Scientists, Engineers and Technologists, Kolkata in association with Modern Institute of Engineering and Technology, Bandel.

Amongst the awarded prizes, other than Certificate of Appreciation and Memento, there was Cash Prize worth of Rs. 2000 /-.

3.1.3 Mr. Rajdeep Chowdhury is conferred with Certificate of Recognition by Infosys Limited

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering, Kalyani is conferred with Certificate of Recognition in recognition of his outstanding contribution to Infosys Campus Connect Program during April, 2011 to March, 2012.

Mr. Chowdhury was awarded with Certificate of Recognition and Memento by Mr. Bhupesh Deka, Principal, Education Research, Infosys Limited and Mr. Taranjit Singh, Managing Director, JIS Group at the Valedictory Session of Train the Trainer Workshop on Web Applications Development Using J2EE Framework on 9th November, 2012 at Dr. B. C. Roy Auditorium, JIS College of Engineering, Kalyani.



3.1.4 Other Achievements

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering is a Honorary Member, Program Committee at National Conference on Control, Communication and Device Electronics (N3CD 2013), July, 25~26, 2013, West Bengal, India

Mr. Bikramjit Pal, Assistant Professor, Department of Computer Application, JIS College of Engineering is the Co Convener at 1st International Conference on Computation and Communication Advancement (IC3A 2013), January, 11~12, 2013, West Bengal, India

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering is a Honorary Member, Program Committee at 1st International Conference on Computation and Communication Advancement (IC3A 2013), January, 11~12, 2013, West Bengal, India

3.2 Publications

3.2.1 Total Publications during the period August, 2012 to July, 2013

| | |
|--|-----------|
| International Journal: | 5 |
| National Journal: | 0 |
| International Conference: | 14 |
| National Conference: | 9 |
| Book Publication: | 2 |
| Total Publications of the Department: | 30 |

3.2.2 List of Paper Published in the Period of June 2012 to July 2013

1. Bikramjit Pal, Awanish Pati Mishra, Mallika De, “ROI Estimation of Data Warehouse with Bottom Up Architecture and Top Down Implementation”, International Journal of Computer Trends and Technology, Vol 4, Issue 5, May 2013, pp 998 – 1001, ISSN 2231 – 2803.
2. Rajdeep Chowdhury, Sourajit Ghosh, Prasenjit Chatterjee, “Multi-phase Encryption Technique as an Approach for Cryptography in Communication”, Proceedings of National Conference on Control, Communication & Device Electronics (N3CD–2013), 25th–26th July, 2013, JIS College of Engineering, Kalyani, Paper Code–ID0262N85m, Page–392 [Abstract]
3. Rajdeep Chowdhury, Sohini Basu, Amitava Ghosh, “Incorporation of Intermediate Super Peer into P2P File Sharing System for Improving Churn Rate”, Proceedings of National Conference on Control, Communication & Device Electronics (N3CD–

2013), 25th–26th July, 2013, JIS College of Engineering, Kalyani, Paper Code–ID0262N78m, Pages 372–379

4. Rajdeep Chowdhury, Bapai Saha, Mallika De, “Towards Design and Implementation of Logarithmic Function Based Iterative Key Generating Cryptographic Technique for Secured Transmission”, Proceedings of National Conference on Control, Communication & Device Electronics (N3CD–2013), 25th–26th July, 2013, JIS College of Engineering, Kalyani, Paper Code–ID0262N42m, Pages 333–339
5. Rajdeep Chowdhury, Amitava Ghosh, Harsh Vardhan Mandhyan, Mallika De,” Geo-Encryption Technique for Exchanging Information Using Positional Parameters in Shuffled Order Through QR Code Applying Selection Sort”, Proceedings of IEEE/OSA/SICE/ICROS/IEEE PAMI-TC 2nd International Conference on Informatics, Electronics & Vision 2013, 17th–18th May, 2013, University of Dhaka, Dhaka, Bangladesh, Page–39 [Abstract], Proceedings in CD: IEEE Catalog Number–CFP1344S-CDR, ISBN–978-1-4799-0399-3, Proceedings in Print: IEEE Catalog Number–CFP1344S-PRT,ISBN–978-1-4799-0398-6
(To be Published and Archived in IEEE Digital Xplore)
6. Rajdeep Chowdhury, Amitava Ghosh, Harsh Vardhan Mandhyan, “Geo-Encryption Technique for Exchanging Positional Parameters in Shuffled Order Through QR Coded Image”, Proceedings of 4th All India Inter Engineering College Academic Meet 2013, 22nd–23rd March, 2012, Forum of Scientists, Engineers and Technologists and Modern Institute of Engineering and Technology, Bandel, Paper Code–194-C&I-51, Page–53 [Abstract] (Awarded Winner of 2nd prize in the Best Paper category with a Cash Award amount of Rs. 2000)
7. Rajdeep Chowdhury, Saikat Ghosh, “Software Based Data Hiding Technique [SBDHT] Using Trigonometry-Based Key [TBK] and 3D Mesh Generation”, Business Management and Information Technology, First Edition, Excel Books, 8th February, 2013,Chapter–70, Pages 672–684, ISBN–978-93-5062-253-7 (Proceedings of 2nd International Conference PrCON 2013, Published by Excel Books)
8. Dharmpal Singh, Rajdeep Chowdhury, Bikramjit Pal, J Paul Choudhury, Mallika De, “Comparative and Comprehensive Study to Select a Soft Computing Model in the Data Mining Domain”, Proceedings of International Conference on Computation and Communication Advancement 2013, 11th–12th January, 2013, JIS College of Engineering, Kalyani, Pages 111–116, ISBN (13)–978-1-25-906393-0 & ISBN (10)–1-25-906393-3 (Published by Tata McGraw Hill Education Private Limited)
9. Bikramjit Pal, Shubhra Chattopadhyay, Sayak Mitra, Rajdeep Chowdhury, Mallika De, “Study and Comparison of Indexing Models in Data Warehouse”, International

Journal of Software Engineering Research and Practices, Volume–2, Number–3, 2012, Pages 1–8, eISSN–2231 0320, Print-ISSN–2231 2048

10. Rajdeep Chowdhury, Rajdeep Bose, Nilanjan Sengupta, Mallika De , “Logarithmic Formula Generated Seed Based Cryptographic Technique Using Proposed Alphanumeric Number System and Rubik Rotation Algorithm”, Proceedings of IEEE 2012 International Conference on Communications, Devices and Intelligent Systems (CODIS), 28th–29th December, 2012, Jadavpur University, Kolkata, Pages 564–567, Proceedings in CD: IEEE Catalog Number–CFP1207U-CDR, ISBN–978-1-4673-4698-6, Proceedings in Print: IEEE Catalog Number–CFP1207U-PRT, ISBN–978-1-4673-4697-9, INSPEC Accession Number–13285714 (Published and Archived in IEEE Digital Xplore, ISBN–978-1-4673-4700-6)
11. Rajdeep Chowdhury, Bikramjit Pal, Amitava Ghosh, Mallika De, “A Data Warehouse Architectural Design Using Proposed Pseudo Mesh Schema”, Proceedings of The First International Conference on Intelligent Infrastructure, CSI–2012, 47th Annual National Convention of Computer Society of India, 01st–02nd December, 2012, Science City Auditorium, Kolkata, Pages 138–141, ISBN (13)–978-1-25-906170-7 & ISBN (10)–1-25-906170-1 (Published by Tata McGraw Hill Education Private Limited)
12. Rajdeep Chowdhury, Sourabh Das, Anirban Shaw, “Implementation and Incorporation of Workshops in Redesigning India’s Higher Education Strata in the Global Ambience Purview”, Proceedings of National Conference on Reshaping India’s Higher Education Landscape for the Global Environment, 6th November, 2012, Government College of Engineering and Technology, Bikaner, Pages 9–13, ISBN–978-93-5104-110-8 (Published by Purva Education and Information Center)
13. Rajdeep Chowdhury, Raja Dutta, Sunita Kumari, “Sustainability Through Formulation and Proposed Design of Hanging Bus Implemented in the Hanging Bus Traversal Technique”, Wipro Earthian 2012, Registration ID–1000714
14. Bikramjit Pal, Rajdeep Chowdhury, Anirban Bhattacharjee, Satyajit Ghosh, Mallika De, “Comparative Study of Various Bitmap Indexing Techniques Used in Data Warehouse”, International Journal of Emerging Trends and Technology in Computer Science, Volume–1, Number–3, September–October, 2012, Pages 147–150, ISSN–2278 6856, Journal Impact Factor–2.524
15. Rajdeep Chowdhury, “Virtual Team for Virtual Communication”, Proceedings of National Conference on Virtual Communication–An Emerging Trend and Its Impact on Pedagogy, 29th September, 2012, Padmanava College of Engineering, Rourkela, Odisha, Pages 80 –84

16. Rajdeep Chowdhury, Somsubhra Gupta, “Unique Grade-to-Percentage Conversion [UGPC]: An Enhanced Knowledge Infrastructure for Better Performance Evaluation”, Inclusive Financial Infrastructure, First Edition, Bloomsbury Publishing India Private Limited, 6th August, 2012, Chapter–33, Pages 464–475, ISBN–978-81-924302-0-1 (Published by Bloomsbury Publishing India Private Limited)
17. Manas Paul and J.K.Mandal, “A Novel Generic Session Based Bit Level Cryptographic Technique based on Magic Square Concepts”, in the proceedings of International Conference on Global Innovations in Technology and Sciences (ICGITS 2013), SAINTGITS College of Engineering, Kottayam, Kerala, India, 4th to 6th April 2013, International Conference.
18. Manas Paul and J.K.Mandal, “A Novel Symmetric Key Cryptographic Technique at Bit Level Based on Spiral Matrix Concept”, in the proceedings of International Conference on Information Technology, Electronics and Communications (ICITEC-2013), International Academic and Industrial Research Solutions, Bangalore, India, 30th & 31st March 2013.
19. Samanta Priyanka, Singh Kabita, Bhattacharya Sumanta, (2013) “A Study Of e-Governance & Policies in India” Paper Code: 227-C&I-58, 4th All India Inter Engineering College Academic Meet 2013.
20. Goswami (Ghosh) Joyita, Bhattacharya Sumanta, (2013) “A Survey Report on the Limitations of Cloud Computing”, International Conference on Computation and Communication Advancement (IC3A-2013)”, Article 64, January, 2013, ISBN 13: 978-1-25-906393-0 & ISBN 10: 1-25-906393-3, pp. 345-349.
21. Goswami (Ghosh) Joyita, Bhattacharya Sumanta, (2012) “Blessings of Cloud Computing: A Survey Report on the Benefits of Cloud Computing”, International Conference on Computing, Communication and Sensor Network (CCSN-2012)”, Article 20, Vol. 3, Issue 1, November, 2012, ISBN: 81-85824-46-0, pp. 88-93.
22. Sarkar Hiranmoy, Hassan Parvin, Bhattacharya Sumanta, (2012) “Modern Education for Common People through e-Learning”, International Conference on Computing, Communication and Sensor Network (CCSN-2012)”, Article 14, Vol. 3, Issue 1, November, 2012, ISBN: 81-85824-46-0, pp. 59-62.
23. Supriya Chakraborty Kalyan Laha, Pallab Kanti Kar, Subhajit Banerjee, The Common Framework of Auto Summarisation of Text, International Conference on Computation and Communication Advancement – 2013, Tata McGraw Hill Education Private Limited, p.p. 74-79.
24. Supriya Chakraborty Sangram Mondal, Indrani Ghosh, Jaydeep Sarkar, Reference Framework of Ignorance, International Conference on Computation and Communication Advancement – 2013, Tata McGraw Hill Education Private Limited, p.p. 52-56.
25. Som S., Banerjee Mandira, (2013) “Cryptographic Technique Using Substitution through Circular Path Followed By Genetic Function”, International Journal of Computer Applications (IJCA), ISSN for IJCA Digital Library is 0975 – 8887, ISBN:

973-93-80873-34-0 CCSN2012 - Number 4, CCSN special issue with IJCA on March 04, 2013.

26. S. K. Mahata, M. Dey and S. Som, (2013) “A Novel Approach for Block-Based Data Encryption”, International Journal of Computer Applications in Engineering Sciences (IJCAES), Vol. 3 No. 1, May 2013, ISSN No.: 2231-4946, pp. 90-94.
27. Som S., Banerjee M., (2013) “Cryptographic Technique by Square Matrix and Single Point Crossover on Binary Field”, 1st International Conference on Communications, Signal Processing, and their Applications (ICCSA'13), Print ISBN: 978-1-4673-2820-3, February 12 – 14, 2013, Sharjah, UAE.
28. Som S., Banerjee M., (2012) “Cryptographic Technique Using Substitution through Circular Path Followed By Genetic Function”, CCSN-2012 International Conference on Computing, Communication and Sensor Network, November 22nd and 23rd, 2012, Rourkela, Orissa, India.
29. Dutta, S., Joardar, A., “New Diametrical Approach in Mesh of Tree Network-on-Chip (NOC)”, 1st International Conference on Computation and Communication Advancement (IC3A), 2013, January 11-12, 2013, ISBN-13:978-1-25-906393-0, ISBN-10:1-25-906393-3, Pages 163-167
30. Dutta, S., Joardar, A., “Cluster Based Routing Algorithm on Network-On-Chip”, Proceedings of National Conference on Control, Communication & Device Electronics (N3CD-2013), 25th-26th July, 2013, JIS College of Engineering, Kalyani, Paper Code-ID0262N30, Pages 21-26

3.3 Organized of Seminar/Conference/Workshop

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering & SPoC, Infosys Campus Connect organized “Road-show Webinars” for students of Department of Computer Application in the months of July, 2013 as well as August, 2013, to overwhelming responses.

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application, JIS College of Engineering & SPoC, Infosys Campus Connect initiated and organized training program as well as workshop on Infosys Campus Connect Foundation Program 3.1 and Infosys Campus Connect Soft Skill Program for MCA Pre-final year as well as MCA Final year batches.

3.4 Participation in Conference/Seminar/Workshop

3.4.1 All the seminars, conferences, workshops held in JIS College of Engineering, Kalyani are being attended by faculties from Department of Computer Application.

3.4.2 Few Certified Programme Enlistment

1. Dr. Subhranil Som and Mr. Supriya Chakrabarty attended one week Education Program on Machine Intelligence under TEQIP, organized by Heritage

Institute of Technology from 15th to 19th July, 2013.

2. Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application was Convener for 3 days Train The Trainer Workshop on “Web Applications Development Using J2EE Framework”, conducted by Infosys Limited, Bhubaneswar at JIS College of Engineering, Kalyani from 7th to 9th November, 2012. The Workshop was attended by Mr. Rajdeep Chowdhury, Mr. Supriya Chakraborty, Mr. Saumen Nandi and Mr. Saurab Dutta from Department of Computer Application.

3.5 Industry-Institute Partnership

Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application is one of the Co-ordinators in the Industry–Institute Partnership Project titled “Advancement and Up gradation Aspects Towards the Rubber Plant Performance Improvement Introducing Academic Support”, adhered between S&H Trading and Manufacturing Limited, Kalyani and JIS College of Engineering, Kalyani.

CHAPTER – 4

4 Laboratory

4.1 Laboratory Existing Resources

WEB TECHNOLOGY LAB (ROOM NO.-204, LAB – 2)

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | REQUIREMENT |
|--------|----------------------|---------|---|------------------------------|
| 1. | WORKSTATION | 9 NOS. | <p>MODEL NAME :- COMPAQ PRESARIO CQ3650IX</p> <p>CONFIGURATION : -</p> <p>PROCESSOR : INTEL® CORE™ I3 @ 3.20 GHZ</p> <p>HDD : 500 GB</p> <p>RAM : 4.00GB</p> <p>SYSTEM TYPE : 32-BIT OPERATING SYSTEM</p> <p>WITH 18" FLAT-PANEL MONITOR, KEYBOARD AND OPTICAL MOUSE.</p> | |
| 2. | N-COMPUTING TERMINAL | 36 NOS. | <p>N-COMPUTING DEVICE MODEL NO.:- L230</p> <p>MONITOR MODEL NO. :- NEC VE1901G ,</p> <p>MONITOR'S SPECIFICATION :- 18.5" FLAT-PANEL LCD</p> <p>WITH LOGITECH CLASSIC KEYBOARD K100 AND LOGITECH OPTICAL MOUSE.</p> | 4 ADAPTER NEED TO BE REPAIR. |
| 3. | SWITCH | 2 NOS. | NETGEAR SWITCH | |
| 4. | CHAIR | 40 NOS. | REVOLVING CHAIR. (8 ARE DAMAGE) | 8 |

| | | | | |
|-----|--------------|---------|---|------------------|
| 5. | TABLE | | 22 NOS. DOUBLE DRAWER 3 NOS. SINGLE DRAWER | |
| 6. | LIGHTS | 12 NOS. | 2 NOS. IN 1 SET, 6 SET OF TUBE LIGHTS. | |
| 7. | FAN | 5 NOS. | OK | |
| 8. | A.C. | 2NOS. | GODREG COMPANY | 1 NEED TO REPAIR |
| 9. | SPIKE BUSTER | 8 NOS. | 4 ARE DAMAGE | 6 |
| 10. | UPS | | | 2 NOS 6 KVA |

UNIX LAB, ROOM NO. 205, LAB - 3

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | ITEM REQUIRED |
|--------|------------|---------|---|--|
| 1. | SERVERS | 2 NOS. | Linux Server SYSTEM X3200 M3 (INTEL(R) XEON(R) CPU X3430@ 2.40GHZ, 4 GB RAM, 250 GB HDD, USB MOUSE, USB KEYBOARD) Windows 2003 server SYSTEM X3200 M3 (INTEL(R) XEON(R) CPU X3430@ 2.40GHZ, 4 GB RAM, 250 GB HDD, USB MOUSE, USB KEYBOARD) | N.A |
| 4. | DESKTOP PC | 50 NOS. | HP d220 Pentium IV 2.6 GHZ processor 256 MB RAM, 40 GB HDD, Keyboard, Mouse with TFT Monitor. 8 machines are not working. | Minimum Intel i3 processor with 4 GB RAM, 500 GB Hard Disk , Keyboard Optical Mouse DVD Writer |
| 5. | SPEAKER | 1 NOS. | OK | N.A |
| 6. | SWITCH | 3 NOS. | ONE DLINK 16 PORT SWITCH TWO NETGEAR 24 PORT SWITCH | N.A |
| 7. | UPS | 1 NO. | 3 KVA AVO UPS For Server and Switch | 3 NOS 6 KVA UPS for 50 PC. |
| 8. | CHAIR | 45 NOS. | Damage 8 nos. | 8 |

| | | | | |
|-----|--------------|---------|------------------|--------------------|
| 9. | TABLE | 16 NOS. | 5 IS BROKEN | 5 |
| 10. | TUBE LIGHT | 18 NOS. | Working | |
| 11. | FAN | 8 NOS. | WORKING | |
| 12. | SPIKE BUSTER | 2 NOS. | | 5 |
| 13. | PRINTER | | NOT AVAILABLE | 1 LASER PRINTER |
| 14. | AC | 3 NOS. | 2 IS NOT WORKING | 2 |
| 15. | BLACK BOARD | 1 NO. | OK | N.A |
| 16. | NOTICE BOARD | 1 NO. | OK | N.A |
| 17. | ALMIRAH | 1 NO. | OK | N.A |

DBMS LAB, ROOM NO. 206, LAB - 4

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | ITEM REQUIRED |
|--------|----------------------|---------|--|-------------------------------|
| 1. | SERVERS | 4 NOS. | <p>ORACLE 11g SERVER:- SYSTEM X3400 M3 (INTEL(R) XEON(R) CPU E5607@ 2.27GHZ, 8 GB RAM, 300 GB HDD, USB MOUSE USB KEYBOARD, 18.5 INCH LCD MONITOR)</p> <p>ORACLE 11g SERVER:- SYSTEM X3200 M3 (INTEL(R) XEON(R) CPU X3430@ 2.40GHZ, 4 GB RAM, 250 GB HDD, USB MOUSE, USB KEYBOARD, 18.5 INCH LCD MONITOR)</p> <p>ORACLE 9i SERVER:- WIPRO NETPOWER SERVER (P-IV, 3.0 GHZ PROCESSOR, 1 GB DDR RAM, 80 GB HDD, 1.44 MB FDD, 52X CDROM DRIVE, PS2 MOUSE, PS2 KEYBOARD, 18.5 INCH COLOUR MONITOR)</p> <p>ANTIVIRUS SERVER:- HP COMPAQ D220 (P-IV, 2.6 GHZ PROCESSOR, 1 GB DDR RAM, 40 GB HDD, 1.44 MB FDD, 52X CDROM DRIVE, PS2 MOUSE, PS2 KEYBOARD, 18.5 INCH LCD MONITOR)</p> | |
| 2. | WORKSTATION | 10 NOS. | <p>MODEL NAME :- COMPAQ PRESARIO CQ3550IX</p> <p>CONFIGURATION :-</p> <p>PROCESSOR : INTEL® CORE™ i3 @ 3.20 GHz</p> <p>HDD : 500 GB</p> <p>RAM : 4.00GB</p> <p>WITH 18.5 INCH FLAT-PANEL LCD, KEYBOARD AND OPTICAL MOUSE</p> | |
| 3. | N-COMPUTING TERMINAL | 40 NOS. | <p>N-COMPUTING DEVICE MODEL NO.:- L230</p> <p>MONITOR MODEL NO. :- NEC VE1901G ,</p> <p>18.5 INCH FLAT-PANEL LCD</p> <p>WITH LOGITECH CLASSIC KEYBOARD K100 AND LOGITECH OPTICAL MOUSE</p> | 6 adapter need to be repaired |
| 4. | DESKTOP PC | 2 NOS. | <p>HCL EC2 (INTEL(R) PENTIUM(R) DUAL CPU E2200, 2.2 GHZ PROCESSOR, 1 GB DDR RAM, 160 GB HDD, DVD WRITER, USB MOUSE, PS2 KEYBOARD, 18.5 INCH LCD MONITOR)</p> <p>HP COMPAQ D220 (P-IV, 2.6 GHZ PROCESSOR, 1 GB DDR RAM, 40 GB HDD, 1.44 MB FDD, 52X CDROM DRIVE, PS2 MOUSE, PS2 KEYBOARD, 18.5 INCH LCD MONITOR)</p> | |
| 5. | SPEAKER | 2 NOS. | | |
| 6. | SWITCH | 3 NOS. | NETGEAR 24 PORT SWITCH | |

| | | | | |
|-----|--------------|---------|---------------------|-----------------|
| 7. | UPS | 1 NO. | 6 KVA AVO UPS | 2 NOS. 6 KVA |
| 8. | CHAIR | 55 NOS. | | 5 |
| 9. | TABLE | 58 NOS. | ONE IS BROKEN | |
| 10. | TUBE LIGHT | 18 NOS. | ONE IS NOT WORKING | |
| 11. | FAN | 8 NOS. | | 1 |
| 12. | SPIKE BUSTER | 12 NOS. | | |
| 13. | PRINTER | 1 NO. | EPSON LX300 PRINTER | 1 LASER PRINTER |
| 14. | AC | 3 NOS. | 2 IS NOT WORKING | 2 |
| 15. | BLACK BOARD | 1 NO. | | |
| 16. | NOTICE BOARD | 1 NO. | | |
| 17. | ALMIRAH | 1 NO. | | |

INTERNET LAB (ROOM NO.-207, LAB – 5)

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | ITEM REQUIRED |
|--------|----------------------|---------|--|---------------|
| 1. | WORKSTATION | 6 NOS. | <p>MODEL NAME :- COMPAQ PRESARIO CQ3650IX</p> <p>CONFIGURATION :-</p> <p>PROCESSOR : INTEL® CORE™ I3 @ 3.20 GHZ</p> <p>HDD : 500 GB</p> <p>RAM : 4.00GB</p> <p>SYSTEM TYPE : 32-BIT OPERATING SYSTEM</p> <p>WITH 18" FLAT-PANEL MONITOR, KEYBOARD AND OPTICAL MOUSE.</p> | NOTHING |
| 2. | N-COMPUTING TERMINAL | 24 NOS. | <p>N-COMPUTING DEVICE MODEL NO.:- L230</p> <p>MONITOR MODEL NO. :- NEC VE1901G ,</p> <p>MONITOR'S SPECIFICATION :- 18.5" FLAT-PANEL LCD</p> <p>WITH LOGITECH CLASSIC KEYBOARD K100 AND LOGITECH OPTICAL MOUSE</p> | NOTHING |

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| | | | | |
|-----|--------------|------------|--|--|
| 3. | DESKTOP PC | 1 NO. | MODEL NAME :- HCL EC2 CONFIGURATION :- PROCESSOR : INTEL PENTIUM DUEL CPU E2200 @ 2.20 GHZ , 2.22 GHZ HDD : 150 GB RAM : 1 GB WITH NEC (18.5" FLAT-PANEL LCD)MONITOR, KEYBOARD AND OPTICAL MOUSE. | NOTHING |
| 4. | SPEAKER | 2 NOS. | | NOTHING |
| 5. | SWITCH | 2 NOS. | NETGEAR 24 PORT SWITCHES | NOTHING |
| 6. | CHAIR | 33 NOS. | REVOLVING CHAIRS. 2 CHAIRS ARE BROKEN | 5 NOS. COMPUTER CHAIRS WILL BE REQUIRED |
| 7. | TABLE | 21 NOS. | 15 NOS. DOUBLE DRAWER 6 NOS. SINGLE DRAWER | NOTHING |
| 8. | LIGHT | 10 NOS. | 2 NOS. IN 1 SET, 5 SET OF TUBE LIGHTS. | NOTHING |
| 9. | FAN | 6 NOS. | | NOTHING |
| 10. | SPIKE BUSTER | 15 NOS. | 2 NOS. ARE NOT WORKING | 5 NOS. WILL BE REQUIRED |
| 11. | PRINTER | 1 NO. | EPSON LX SERIES 1(136) DOT MATRIX PRINTER | NOTHING |
| 12. | UPS | | NOT AVAILABLE | 2 NOS. OF 6 KVA UPS WILL BE REQUIRED |

| | | | | |
|-----|----|--|---------------|--------------------------------|
| 13. | AC | | NOT AVAILABLE | 2 NOS. OF AC WILL BE REQUIRED. |
|-----|----|--|---------------|--------------------------------|

RESEARCH LAB (ROOM NO.-208, LAB – 6)

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | ITEM REQUIRED |
|--------|-------------|---------|---|--|
| 1. | SERVER | 3 NOS. | SUN SERVER V210, V240 & V20Z | NOTHING |
| 2. | WORKSTATION | 10 NOS. | 3 NOS. SUN BLADE WORKSTATIONS & 7 NOS. SUN ULTRA 20 WORKSTATIONS WITH KEYBOARD, MOUSE & CRT MONITOR. | 2 SUN BLADE AND 2 NO WOKSTATION NEED TO REPAIR |
| 3. | DESKTOP | 20 NOS. | PENTIUM IV WITH 256 MB RAM & 80 GB HDD WITH MOUSE, KEYBOARD & 15 NOS. NEC 18.5” FLAT PLANEL LCD MONITORS 14 NOS. CRT MONITORS. | 7 ARE NOT WORKING 30 NOS UPGRADED MACHINES REQUIRED |
| 4. | SPEAKER | 4 NOS. | NOT WORKING | |
| 5. | SWITCH | 2 NOS. | NETGEAR 24 PORT SWITCHES | NOTHING |
| 6. | CHAIR | 15 NOS. | REVOLVING CHAIRS. 12 CHAIRS ARE BROKEN | 25 NOS. COMPUTER CHAIRS WILL BE REQUIRED |
| 7. | TABLE | 38 NOS. | SINGLE DRAWER 6 NOS. TABLES ARE BROKEN | 6 TABLES NEED TO BE REPAIR |

| | | | | |
|-----|--------------|---------|--|----------------------------|
| 8. | LIGHT | 12 NOS. | 2 NOS. IN 1 SET, 5 SET OF TUBE LIGHTS. | NOTHING |
| 9. | FAN | 6 NOS. | 1 NO. FAN IS NOT WORKING | 1 NO. FAN WILL BE REQUIRED |
| 10. | SPIKE BUSTER | 15 NOS. | 4 NOS. ARE NOT WORKING | 10 NOS. WILL BE REQUIRED. |
| 12. | UPS | 1 NO. | 20 KVA UPS | NOTHING |
| 13. | AC | 2 NOS. | 1 NOS. AC ARE NOT WORKING | 1 AC NEEDS TO BE REPAIRED. |

NETWORKING LAB, ROOM NO. 220, LAB - 7

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | ITEM REQUIRED |
|--------|------------|---------------------|---|--|
| 1. | SERVERS | 2 NOS. | IBM SYSTEM X3200M3 | |
| 2 | DESKTOP PC | 1 NO. 36 NO. | HCL EC2 (INTEL(R) PENTIUM(R) DUAL CPU E2200, 2.2 GHZ PROCESSOR, 1 GB DDR RAM, 160 GB HDD, DVD WRITER, USB MOUSE, PS2 KEYBOARD, 15" LCD MONITOR) 2.6 GHz PROCESSOR, 256 MB DDR RAM, 40 GB HDD | 50 NOS OF UPGRATED COMPUTER'S BUT RIGHT NOW THE PROVISION PROVIDED IN LAB ARE EXTRA 4 NO'S COMPUTERS SETUP ONLY |
| 3 | SPEAKER | 2 NOS. | | |
| 6. | SWITCH | 3 NOS. | TWO DLINK 24 PORT SWITCH ONE NETGEAR 24 PORT SWITCH | |
| 7. | UPS | 1 NO. | 2 KVA UPS | 2no 6 KVA |
| 8. | CHAIR | 40 NOS. | MAXIMUM IS PLASTIC CHAIR | 50 NO'S OF NEW CHAIR |
| 9. | TABLE | 25 NOS. | ONE IS BROKEN | TABLE REQUIRED IF THE NUMBER OF COMPUTER IS HIGH |
| 10. | TUBE LIGHT | 6 NOS. | | |

| | | | | |
|-----|--------------|---------|-----------------------------------|-----------------|
| 11. | FAN | 9 NOS. | | 1 |
| 12. | SPIKE BUSTER | 12 NOS. | | |
| 13. | PRINTER | 1 NO. | TVE DOT MATRIX PRINTER NOTWORKING | 1 LASER PRINTER |
| 14. | AC | 2 NOS. | | 1 |
| 15. | WHITE BOARD | 1 NO. | | |
| 16. | NOTICE BOARD | 1 NO. | | |
| 17. | ALMIRAH | 1 NO. | | |

GRAPHICS & MULTIMEDIA LAB (ROOM NO.-219, LAB – 8)

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | ITEM REQUIRED |
|--------|-------------|---------|--|------------------------------|
| 1. | COMPUTER | 40 NOS. | MODEL NAME :- COMPAQ PRESARIO CQ3650IX CONFIGURATION : - PROCESSOR : INTEL® CORE™ I3 @ 3.20 GHZ HDD : 520 GB RAM : 2.00GB SYSTEM TYPE : 32-BIT OPERATING SYSTEM WITH 18" FLAT-PANEL MONITOR, KEYBOARD AND OPTICAL MOUSE. | 7 MACHINES NEED TO BE REPAIR |
| 2. | SPEAKER | 31 NOS. | 20 ARE NOT WORKING | 40SPAKER. |
| 3. | SWITCH | 2 NOS. | NETGEAR 24PORT. | |
| 4. | CHAIR | 44 NOS. | 10 NOS. REVOLVING CHAIR. 34 NOS. PLASTIC CHAIR | 45NOS,RELOVINGCHAIR. |
| 5. | TABLE | 40 NOS. | 5 NOS. DOUBLE DRAWER 35 NOS. SINGLE DRAWER | |
| 6. | TUBE LIGHTS | 8 NOS. | | |

| | | | | |
|-----|---------------|---------|--|---------------------|
| | | | | |
| 7. | FAN | 10 NOS. | | |
| 8. | UPS | NONE | | 2NOS 6KVA |
| 9. | PRINTER | NONE | | 1NOS LASER PRINTER. |
| 10. | AC | NONE | | 2NOS AC. |
| 11. | BLACK BOARD | 1NOS | | |
| 12. | NOTICE BOARD | 1NOS | | |
| 13. | ALMIRAH | NONE | | 1NO ALMIRAH. |
| 14. | LCD PROJECTOR | NONE | | |

PROJECT LAB, ROOM NO. 221, LAB – 9

| SL NO. | ITEM NAME | QTY. | ITEM DESCRIPTION | ITEM REQUIRED |
|--------|----------------------|---------|--|-----------------------------|
| 1. | WORKSTATION | 4 NOS. | MODEL NAME :- COMPAQ PRESARIO CQ3550IX CONFIGURATION :- PROCESSOR : INTEL® CORE™ i3 @ 3.20 GHz HDD : 500 GB RAM : 4.00GB WITH 18.5 INCH FLAT-PANEL LCD, KEYBOARD AND OPTICAL MOUSE | |
| 2. | N-COMPUTING TERMINAL | 16 NOS. | N-COMPUTING DEVICE MODEL NO.:- L230 MONITOR MODEL NO. :- NEC VE1901G , 18.5 INCH FLAT-PANEL LCD WITH LOGITECH CLASSIC KEYBOARD K100 AND LOGITECH OPTICAL MOUSE | 2 adapter need to be repair |
| 3. | SWITCH | 1 NOS. | ONE NETGEAR 24 PORT SWITCH | |
| 4. | UPS | Non | | 1no 6 KVA |
| 5. | CHAIR | 27 NOS. | 27 Normal Plastic Chairs. | 30 Computer |

| | | | | |
|----|-------------|---------|---|--|
| | | | | Chair |
| 6. | TABLE | 16 NOS. | 10 Nos Double Drawer. 6 Nos Single Drawer. | 1 No. Double Drawer 5Nos Single Drawer. |
| 7. | TUBE LIGHT | 8 NOS. | | |
| 8. | FAN | 5 NOS. | | |
| 9. | BLACK BOARD | 1 NO. | | |

4.2 Laboratory Maintenance

Equipments of the Computer Laboratories were maintained by the technical staffs of the college and if required repairing was done by third party vendors/services. Running number of computers compared to existing laboratory machines always above 85% in these academic sessions.

4.3 Laboratory Development

The development of the laboratory is being ensured by allowing UG and PG students to innovate and develop newer products via project during the pre-final semester and final semester of the course curriculum. The laboratory is being designed for furnishing students with extra academic support as well as furnishing it to outsourcing, as well. The Project laboratory is also designed for working on various funded projects and hence well-equipped enough to sustain the modern trends of teaching and learning pedagogy.

CHAPTER – 5

Learners Perspectives

5.1. Award achieved by Students

Mr. Amitava Ghosh, Student, Department of Computer Application, Mr. Harsh Vardhan Mandhyan, Student, Department of Computer Application and Mr. Rajdeep Chowdhury, Assistant Professor, Department of Computer Application were awarded 2nd Prize for their Paper titled “Geo-Encryption Technique for Exchanging Positional Parameters in Shuffled Order Through QR Coded Image” in the Computer Science and Engineering and Information Technology [C&I] Category of 4th All India Inter Engineering College Academic Meet 2013, held on 22nd and 23rd March, 2013, organized by Forum of Scientists, Engineers and Technologists, Kolkata in association with Modern Institute of Engineering and Technology, Bandel.

Amongst the awarded prizes, other than Certificate of Appreciation and Memento, there was Cash Prize worth of Rs. 2000 /-.

5.2. Training

Students are undergoing training in distinguished programs, namely;

- (1) Infosys Campus Connect Foundation Program
- (2) Infosys Campus Connect Soft Skill Program
- (3) British Council Soft Skill Program
- (4) Aptitude and Logical Reasoning
- (5) Quick Mathematics

5.3. Student Participation in Conference/Seminar/ Workshop

Our students are actively involved in various Conferences, Seminars and Workshops, especially Student Volunteers in the International Conference – IC3A 2013 on 11th Januray, 2013 and 12th January, 2013, namely; Mr. Harsh Vardhan Mandhyan (MCA 3rd Year), Mr. Amitava Ghosh (MCA 3rd Year), Ms. Rima Roy (MCA 3rd Year), Mr. Sandip Saha (BCA 3rd Year) and Mr. Anirban Shaw (BCA 2nd Year).

5.4. Mentorship Programme

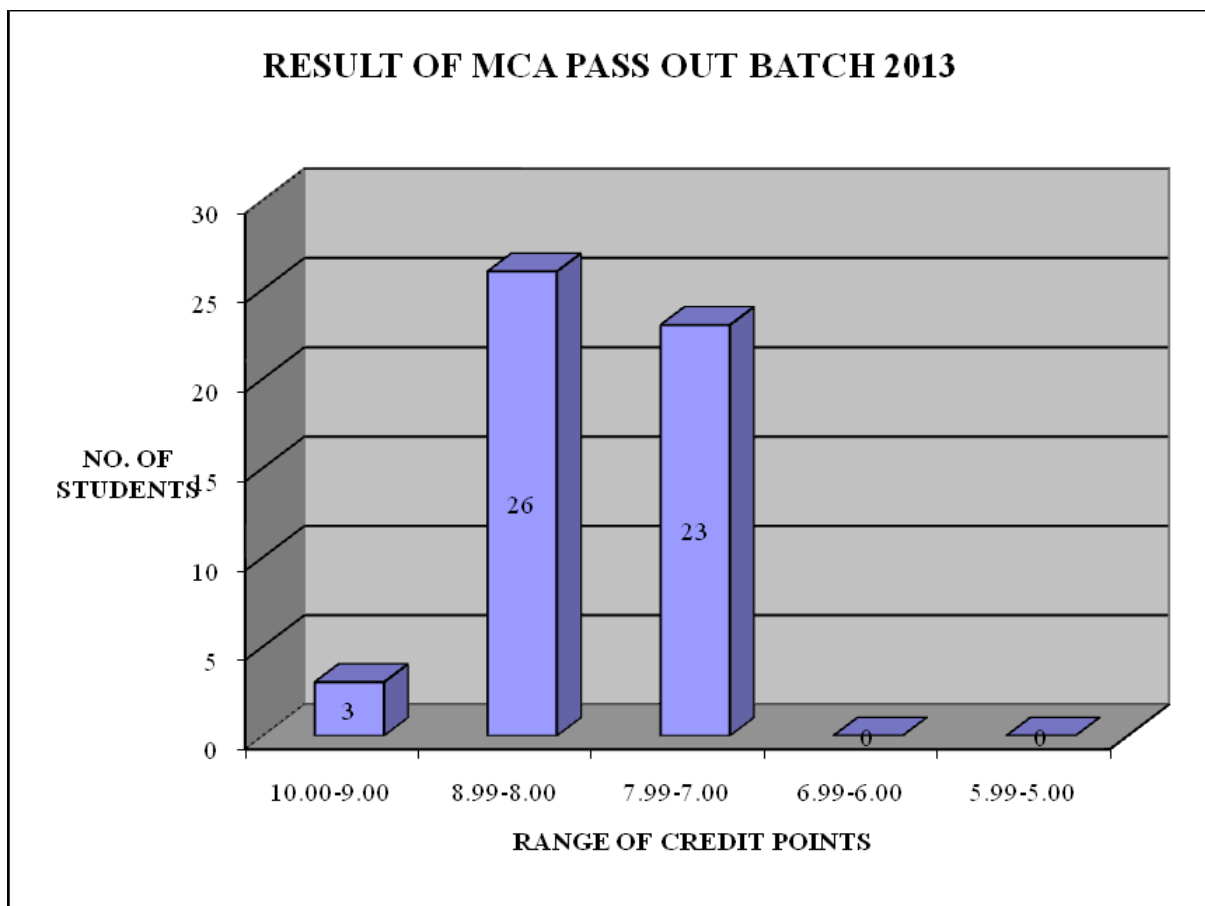
The Department of Computer Application conducted Mentorship Program for every student. A mentor is a teacher who is the complete guide of a particular student. Given below are the list of mentors and their respective students for the year 2012 – 2013.

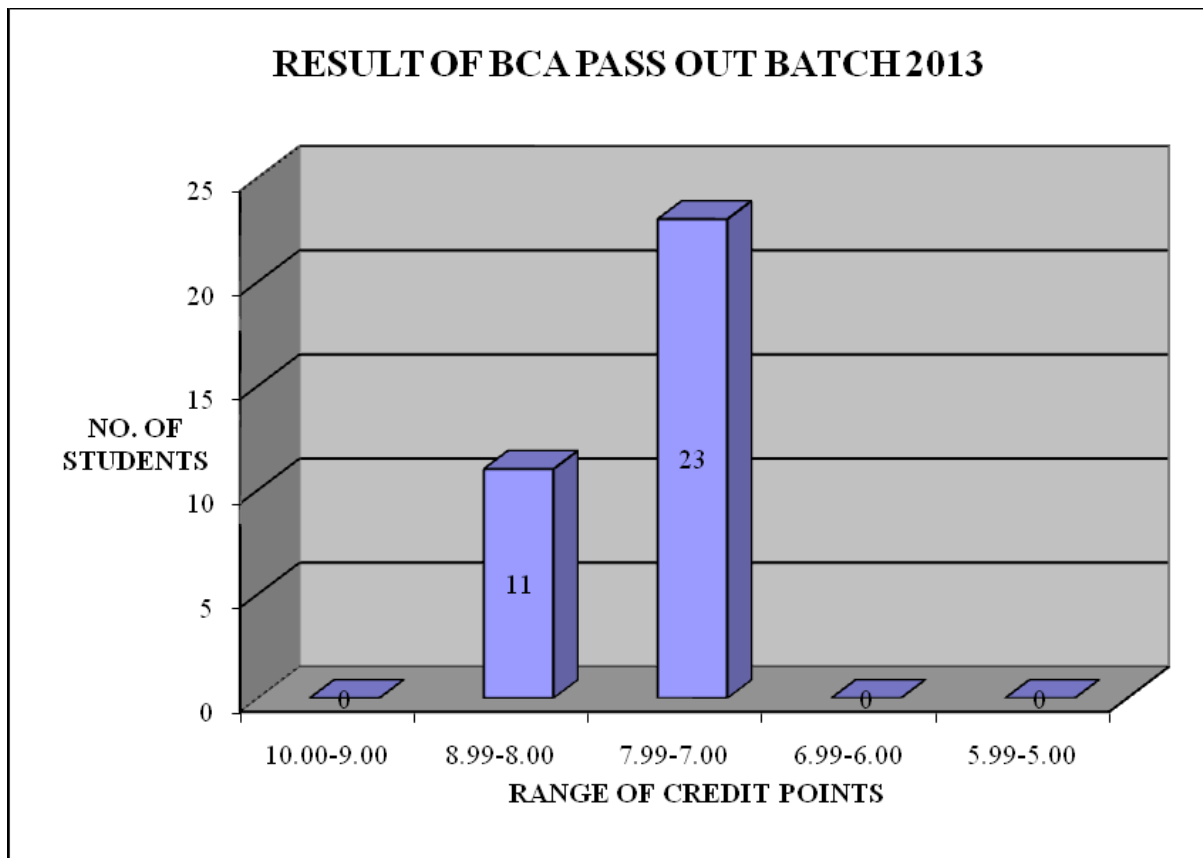
List of Mentors and Their Respective Allocated Students

| Mentor Name | Allocated stream and student ID | No. of Interactions |
|---------------------|--|----------------------------|
| Bikramjit Pal | MCA-1 (C ID 1 to 21) | 6 |
| Supriya Chakrabarty | MCA-1 (C ID 22 to 42) | 7 |

| | | |
|----------------------|-----------------------|---|
| Subhranil Som | MCA-2 (C ID 1 to 23) | 7 |
| Sumanta Bhattacharya | MCA-2 (C ID 24 to 43) | 8 |
| Rajdeep Chowdhury | BCA-2 (C ID 1 to 16) | 8 |
| Anasua Joardar | BCA-2 (C ID 17 to 32) | 6 |
| Joyita Goswami | BCA-2 (C ID 32 to 43) | 6 |
| Saumen Nandi | BCA-1 (C ID 1 to 16) | 7 |
| Saurab Dutta | BCA-1 (C ID 17 to 32) | 7 |
| Sanjib Das | BCA-1 (C ID 33 to 49) | 6 |

5.6. Final Year Result





5.7. On-Campus Placement

Organization Wise Few Enlistment: MCA, 2013

| Name | Company |
|------------------------|-----------------|
| Amitava Ghosh | TCS |
| Harsh Vardhan Mandhyan | TCS |
| Biman Ghosh | EXL Infotel |
| Nandita Saha | EXL Infotel |
| Jayanta Kumar Patra | Kovair Software |

Organization Wise Few Enlistment: BCA, 2013

| Name | Company |
|----------------------|---------|
| Arpan Talukdar | ATOS |
| Neha Srivastava | ATOS |
| Soumick Chakrabarty | ATOS |
| Soumitra Banerjee | ATOS |
| Sourav Pramanik | ATOS |
| Tirthankar Mukherjee | ATOS |

CHAPTER – 6

Department Committee and Sub committee

6.1 Formation of DC and SC: A Departmental Committee had been formed which worked under the HOD, who is the Chairman of the DC. Also, some departmental sub committees had been formed as shown in the table:

| Sub Committee | Name of Faculty Member |
|----------------------------------|---|
| Project Coordinator | Bikramjit Pal |
| Training and Placement Committee | Supriya Chakrabarty Rajdeep Chowdhury |
| Discipline Committee | Manas Paul Sumanta Bhattacharya Joyita Goswami |
| Routine Committee | Manas Paul Anasua Joardar |
| Research and Development | Manas Paul Supriya Chakrabarty Subhranil Som Rajdeep Chowdhury |

(NOTE: No Departmental Committee meeting has been done for the year 2012 – 2013)

CHAPTER – 7

Projects

7.1 Basis of Project Selection: Projects in the Department of Computer Application for the period 2012 – 2013 have been allocated based on student choice of domains. Students are asked to give their choice and in some cases it was found that most of the students have given similar domain choice, which results in allocation of projects to only few faculty members. To resolve the issue, second choice of has been asked and almost equal allocation was done for every teacher.

7.2 Guidelines for Project: The project guidelines have been laid down to enhance the project activity in the department.

7.2.1 Introduction and Objectives: The Project work constitutes a major component in most professional programmes. It needs to be carried out with due care, and should be executed with seriousness by the students. The project work is not only a partial fulfilment of the MCA requirements, but also provides a mechanism to demonstrate your skills, abilities and specialisation. The project work should compulsorily include the software development. Physical installations or configuring the LAN/WAN or theoretical projects or study of the systems, which doesn't involve s/w development, are strictly not allowed. Students are eligible to submit the project proposals after entering into the 5th semester of MCA, as per the calendar of the project.

OBJECTIVES

The objectives of the project is to help the student develop the ability to apply theoretical and practical tools/techniques to solve real life problems related to industry, academic institutions and research laboratories. After the completion of this project work, the student should be able to:

- Describe the Systems Development Life Cycle (SDLC).
- Evaluate systems requirements.
- Complete a problem definition.
- Evaluate a problem definition.
- Determine how to collect information to determine requirements.
- Perform and evaluate feasibility studies like cost-benefit analysis, technical feasibility, time feasibility and operational feasibility for the project.
- Work on data collection methods for fact finding.
- Construct and evaluate data flow diagrams.
- Construct and evaluate data dictionaries.
- Evaluate methods of process description to include structured English, decision tables and decision trees.
- Evaluate alternative tools for the analysis process.
- Create and evaluate such alternative graphical tools as systems flow charts and state transition diagrams.
- Decide the S/W requirement specifications and H/W requirement specifications.
- Plan the systems design phase of the SDLC.
- Distinguish between logical and physical design requirements.
- Design and evaluate system outputs.
- Design and evaluate systems inputs.

- Design and evaluate validity checks for input data.
- Design and evaluate user interfaces for input.
- Design and evaluate file structures to include the use of indexes.
- Estimate storage requirements.
- Explain the various file update processes based on the standard file organizations.
- Decide various data structures.
- Construct and evaluate entity-relationship (ER) diagrams for RDBMS related projects.
- Perform normalization for the un-normalized tables for RDBMS related projects.

NOTE: At any given point of time, a guide should not provide guidance for more than 4 MCA students.

7.2.2 Type of the Project and Steps Involved in Project Work

Type of the Project

The majority of the students are expected to work on a real-life project preferably in some industry/ Research and Development Laboratories/Educational Institution/Software Company. Students are encouraged to work in the areas listed at the end. However, it is not mandatory for a student to work on a real-life project. The student can formulate a project problem with the help of her/his Guide and submit the project proposal of the same. Approval of the project proposal is mandatory. If approved, the student can commence working on it, and complete it. Use the latest versions of the software packages for the development of the project. Students can also extend their minor projects to major projects provided the project guide and project coordinator has monitored for its extendibility.

Steps involved in the project work

The complete project work should be done by the student only. The role of guide should be about guidance wherever any problem encounters during project. The following are the major steps involved in the project, which may help you to determine the milestones and regulate the scheduling of the project:

- Select a topic and a suitable guide.
- Prepare the project proposal in consultation with the project guide.
- Submit the project proposal along with the necessary documents to the Project Coordinator.
- Carry out the project work.
- Prepare the project report.
- Submit the project report to the Project Coordinator
- Appear for the viva-voce as per the intimation by the PC.

Communication of the approval

Communication regarding the project Approval/Non-approval will be sent to you within one week after the receipt of the project proposal by the Project Coordinator.

Resubmission of the project proposal in case of non-approval

In case of non-approval, the suggestions for reformulating the project will be communicated to you. The revised project synopsis along with a new proforma should be re-submitted along

with a copy of the earlier synopsis and non-approval project proposal proforma in the next slot.

Resubmission of MCA project in case of failed students

If the student is unsuccessful in the project, s/he should 're-do' the whole cycle, right from the submission of the project proposal. Students are advised to select a new topic for the project and should prepare and submit the project proposal to the Department as per the project guidelines. There are no separate slots for the submission of the project synopsis/project reports for the failed students. Respective submissions of the project synopsis and the project reports should be done strictly as per the "Calendar for the MCA project".

7.2.3 Points to Remember While Preparing the Project Proposal

Project Proposal Formulation

The project proposal should be prepared in consultation with your guide. The project proposal should clearly state the project objectives and the environment of the proposed project to be undertaken. The project work should compulsorily include the software development. The project proposal should contain complete details in the following form:

- Proforma for Approval of Project Proposal duly filled and signed by both the student and the Project Guide with date.
- Bio-data of the project guide with her/his signature and date.
- Synopsis of the project proposal covering the following aspects:

(i) Title of the Project.

(ii) Introduction and Objectives of the Project.

(iii) Project Category (RDBMS/OOPS/Networking/Multimedia/Artificial Intelligence/Expert Systems etc.).

(iv) Tools/Platform, Hardware and Software Requirement specifications.

(v) Problem Definition, Requirement Specifications (Detailed functional Requirements and Technical Specifications), Project Planning and Scheduling (Gantt chart and PERT chart).

(vi) Scope of the solution.

(vii) Analysis (Data Models like 0, 1 and 2 level DFDs, Complete ER Diagrams with cardinality, Class Diagrams etc. as per the project requirements).

(viii) A complete Database and tables detail with Primary and Foreign keys, and proper constraints in the fields (as per project requirements)

(ix) A complete structure which includes:

- Number of modules and their description to provide an estimation of the student's effort on the project. Along with process logic of each Module.
- Data Structures as per the project requirements for all the modules.
- Process Logic of each module.
- Implementation methodology
- List of reports that are likely to be generated.

(x) Overall network architecture (if required for your project)

(xi) Implementation of security mechanisms at various levels

(xii) Future scope and further enhancement of the project.

(xiii) Bibliography

7.2.4 General Guidelines for Project Report Formulation

1. The project report should be submitted in A-4 size (29 × 20 cms) typed in 1.5 space.
2. Left margin is of 1.25 inches.
3. Right margin is of 1.0 inches.
4. Top and Bottom margin are of 1 inch.
5. Page number should be given as footer at the lower right corner.

7.2.5 Project Report Document Submission

The final year project must contain the following:

- Title Of The Project
- Table Of Contents / Index
- Introduction Of The Project
- Objective Of The Project
- System Analysis
- Identification Of The Need (If Applicable);
- Preliminary Investigation (If Applicable)
- Feasibility Study (If Applicable)
- Technical Feasibility (If Applicable)
- Economical Feasibility (If Applicable)
- Operational Feasibility (If Applicable)
- Time Feasibility (If Applicable)
- Data Collection And Analysis (If Applicable)
- Software And Hardware Requirement Specification
- System Design
- Validation Checks
- Testing (Testing Techniques And Strategies Used Along With The Test Data And The Errors Listed For Each Test Case - If Applicable)
- System Security Measures (Implementation Of Security For The S/W Developed - If Applicable)
- Implementation And Maintenance
- Cost Estimation Of The Project (If Applicable)
- Reports
- Future Scope And Further Enhancement Of The Project
- Glossary
- Bibliography

Note: In case the student get chance to work on Real Life Project, S/he must specify the company details and structures for whom the product is going to be developed for teller made software or general details / behaviour / status / structure/layout of the target customer for preparatory software. It will definitely add some value to the project work.

NOTE:

1. Emphasis will be given to those projects which are **APPLICATION ORIENTED**.
2. For **Each Group**, **ONE** properly bound (**HARD BOUND**) original copy of the Project Report is to be submitted to the concerning Department Project Coordinator.

ANOTHER properly bound (**HARD BOUND**) original copy of the project report is to be submitted to the internal guide.

3. Photocopy of the project report is not acceptable for submission. The Department is not responsible for the print out of the Project Report.

7.2.6 Assessment Guidelines for Project Evaluation

Each and every component of the project work and the viva voce carries its own weight age, so the student needs to concentrate on all the sections given in the project report formulation. In this section, we have given a few general parameters as checkpoints for the assessment of any software development project. You can note these points and emphasise them during the project report preparation and examination. Basically, assessment will be based on the quality of your report, the technical merit of the project and the project execution. Technical merit attempts to assess the quality and depth of the intellectual effort, you have put into the project. Project execution is concerned with assessing how much work you have put in.

Analysis

In Project planning include cost estimation and project scheduling. The Cost and efforts estimation is to be done with the help of functional point analysis or other similar methods. The project scheduling is identified with:

- (i) PERT chart: Proper decomposition of stages, and
- (ii) Gantt chart: Time, line structure and validity of chart.

You may know that the software requirement specification (SRS) document is one of the important documents of your project. The indicators for SRS document is whether you have used some standardisation like IEEE standards or any other international standard, or whether your SRS has a proper structure based on sound software engineering concepts. Project analysis for DBMS/Application development projects should contain the ER diagram, Data Flow Diagram and Data Dictionary, so you should include these with the following requirements. However, for other categories of project you should prepare class diagrams, behaviour model and/or state transition diagram and details of various data structures used.

- The Entity Relationship diagram (ER Diagram) should have:
 - o Proper symbol of attributes, entities, relationships, cardinality mentioned, and
 - o Relationship of ER diagram to SRS with strong association
- Data Flow Diagram (DFD) should have:
 - o All Data flow should be levelled and should have proper input and output.
 - o Relationship of data flow to data dictionary Context Diagram, Level 1 and Level 2.
- Data Dictionary: It should explain each entity and relationship in ER diagram and data flow in DFD.

Design

Project design should include the desired features and operations in detail, including user interface design, program structure, schema design and normalised tables and data integrity and constraints.

You should include them with the requirements given below:

- Program Structure: It should have the proper modularisations of software and specification of each module.
- Schema Design and Normalised Tables: Normalise the table to minimum 3NF. If any demand of Demoralisations clearly explain the reasons.
- Data Integrity and Constraints: Explain the referential diagram. Define entity integrity, which should include keys, alternate keys and other keys, value constraints and ranges.
- Procedural Design: Explain using Flowchart / Pseudo code / PDL.
- User Interface Design: Coherence with dataflow and processor; Consistency of interface and naming convention. Validation checks should be kept wherever necessary.
- Architecture: Program architecture and explanation on suitability of data structure used.

Coding

Coding phase of software development includes different activities like refining the algorithms for individual components, transferring the algorithms into a programming language (coding), translating the logical data model into a physical one and compiling and checking the syntactical correctness of the algorithm with these activities. You should include the comments and description in code; use the standardisation in coding, use the methodology for error handling and security implementation. These parameters ensure software quality and reliability. You should include them with the requirements given below:

- Comments and Description: Should have comments with functional description which include the input, output, total function calls to/from other functions, function parameters, description of main variables, Data type, logic description, etc.
- Standardisation of Coding: Use of naming convention of variable and functions, nested depth, naming constant, use of data structure and style.
- Error Handling: Explain exceptions handling and conditional checking.
- Parameter passing and calling: Check the technique used for this purpose, how it optimises the coding.
- Security Mechanisms: Maintain confidentiality, integrity and authorisation according to the requirement and needs of the system. Also maintain database level security, use of Views, and use of revoke and grant, user and access rights and ensure steps taken against hacking of the system.

Testing

Testing is a process of devising a set of inputs to a given piece of software that will cause the software to exercise some portion of its code. The developer of the software can then check if the results produced by the software are in accordance with his or her expectations. It includes number of activities such as correcting syntactically and semantically erroneous system components, detecting as many errors as possible in the software system, and assuring that the system implementation fulfils system specification.

It ensures the quality, efficiency and reliability of the software, which is measured by the testing methodology and techniques used for unit, integrated, system testing etc.

The testing should not be too generic containing only definitions. You should give all the test case designs, reports and results of test cases for unit, integrated, system testing etc. How debugged your code is and what actions you have taken too improve the code, must, be explained. Good testing can be measured by criteria such as correctness, reliability, user friendliness, maintainability, efficiency and portability of software.

System Security Measures

The student should clearly emphasize the various levels of security measures implemented in the project.

Report Generation

The project report should include the various sample reports for ready reference.

Cost Estimation of the project

The student needs to incorporate the estimated cost of the project using the suitable mechanism/model given in the Software Engineering.

Screen Layouts/Screen Shots/Screen dumps

Screen dumps for various screens/user interfaces should also be placed in a proper order in the project report for ready reference.

Organisation of the Project Report

Report organisation improves the professional attitude of writing reports. You should emphasise on the proper binding of the project report, the cover page, page numbering, organisation of content and proper printout of text and images.

Viva Voce

Other than the questions related to the project related areas and the courses concerned, student may be requested to show the demo of the project. Also, you may be told to write the portions of the code for a problem to demonstrate her/his coding capabilities.

While appearing for the viva-voce, along with the project report the student should needs to carry the identical copy of the CD of the executable file(s) which s/he submitted at the time of project report.

Project Evaluation

The Project Report is evaluated for 100 marks including viva-voce. Viva-voce is compulsory and forms part of evaluation. The distribution of marks is as follows:

1. Guide Feedback: 60%
2. Panel Feedback: 30%
3. Viva – voce: 10%

7.2.7 Software and Broad Areas of Application

FRONT END / GUI Tools: Visual Basic, Power Builder, X-Windows (X/lib, X/motif, X/Intrinsic), Oracle Developer 2000, VC++, Jbuilder , Net Beans

RDBMS/BACK END: Oracle, Ingres, Sybase, Progress, SQL Plus, Versant, MY SQL, SQL Server, DB2, Point base

LANGUAGES: C, C++, Java, VC++, C#, eclipse

SCRIPTING LANGUAGES: PERL, SHELL Scripts (Unix), TeL/TK,

RDBMS/BACK END: Oracle, Ingres, Sybase, Progress, SQL Plus, Versant, MY SQL, SQL Server, DB2

.NET Platform: VB.Net, C#. Net, Visual C#. Net, ASP.Net

MIDDLE WARE (COMPONENT) TECHNOLOGIES: COM/DCOM, Active-X, EJB, WINCE, MSMQ, BEA, MessageQ, MTS, CICS

UNIX INTERNALS: Device Drivers, RPC, Threads, Socket programming

ARCHITECTURAL CONCEPTS: CORBA, TUXEDO, MQ SERIES

INTERNET TECHNOLOGIES: DHTML, Java script, VB Script, Perl & CGI script, Java, Active X, RMI, CORBA, SWING, JSP, ASP, XML, EJB, Java Beans, Servlets, Visual Age for JAVA, UML, VRML, WML, Vignette, EDA, Broadvision, Ariba, iPlanet, ATG, BigTalk, CSS, XSL, Oracle ASP server, AWT, J2EE, LDAP, ColdFusion, Haskell 98, PHP, NetBeans

NETWORK/WIRELESS TECHNOLOGIES: Blue Tooth, 3G, ISDN, EDGE

REALTIME OPERATING SYSTEM/EMBEDDED SKILLS: QNX, LINUX, OSEK, DSP, VRTX, RTX, Nucleus

OPERATING SYSTEMS: WINDOWS 2000/ME, WINDOWS NT, WINDOWS XP, UNIX, LINUX, IRIX, SUN SOLARIS, HP/UX, PSOS, VxWorks, AS400, AIX, DOS

APPLICATION AREAS: Finance / Insurance/ Manufacturing / Multimedia / Graphics / DBMS / Internet / Intranet / E Commerce / Network Security / Data Mining / Socket Programming / TCP – IP Programming / GIS and many more.

7.3 List of Student Projects: The list of student projects for the year 2012 – 2013 is as:

BCA 3rd Year Minor Project

| Gr. No. | Names of students | Project Title |
|---------|---|----------------------------------|
| 1 | Sayani Majumder, Sunanda Bharati, Susmita Saha | School M. S. |
| 2 | Suman Kaur, Arnab Dutta, Arijit Maiti | Project on ASP .net / SQL Server |
| 3 | Arjun Shome | Robotics |
| 4 | Sudip Chatterjee | Cryptography |
| 5 | Jhilik Sikdar, Megha Bhattacharya, Soumasree Banerjee | Cryptography |
| 6 | Animesh Ghosh, Juin Kar, Nidhi Raj, Rakhi Singh, Shubhanker Mukherjee | Web page desiging |
| 7 | Ankit Kumar Singh, Prashant Kumar Singh, Siddharthya Gautam | Student DB of JIS |
| 8 | Sabyasachi Das, Subhadip Das, Sarthak Roy | Web-Based Application |
| 9 | Anand Kumar Mondal, Anirban Shaw, Suman Saha, Sourabh Das | Cryptography in DW |
| 10 | Somen Debnath, Shiddikulla Sk. | Web-Based Application |
| 11E | Soumen Kar, Snehasish Debnath, Anupam Das | Web-Based Application |
| 12 | Rajdip Roy, Rajshekhar Chakraborty, Tusarkanti Mallik | Learning M. S. |

BCA 3rd Year Major Project

| Gr. No. | Names of students | Project Title |
|---------|---|--------------------------------|
| 1 | Arpan Das | Gas Booking in VB .Net |
| 2 | Santanu Das, Arunava Das | Online Exam |
| 3A | Arnab Mondal, Kaushik Mandal, Ananya Biswas, Ananya Banerjee | College Management System |
| 4 | Jayeta Mukherjee | Gas Booking System |
| 5 | Sushil Kumar, Souvik Kundu, Reshmi Sarkar, Dipanwita Das, Punam Singha | College Management System |
| 6 | Amit Saha, Sajib Bhowmick, Jayanta Roy | Project Management System |
| 7 | Soumik Chakraborty, Tirthankar Mukherjee, Neha Srivastava, Soumitra Banerjee, Sourav Pramanik | Online Customer Support System |
| 8 | Raju Molla, Bidyut Debnath, Samrat Roy | Job Site |
| 9 | Manita Sarkar Chaudhury, Madhurima Chakraborty, Amrita Keshari | Online Auction Shop |
| 9A | Atindra Kumar Nath, Udit Chakraborty | Security in DW |
| 10 | Arpan Talukder, Pooja Paul | Cryptography |
| 11B | Sandip Saha, Sunita Kumari, Akhilesh Kumar Das, Sandip Saha | DW & Security |

MCA 3rd Year Major Project

| Gr.No. | Names of students | Project Title |
|--------|--|--|
| 1 | Jaydeep Sarkar, Shouvik Banerjee | Implementation of DFRS |
| 2 | Sanjiv Shaw, Subhajit Banerjee, Suchanda Chakraborty | Dynamic Identification of current state of sitting arrangement |
| 3 | Koushik Majumder, Souvik Rakshit, Tithi Biswas | Student Information System |
| 5 | Somnath Das | Web based Application |
| 6 | Amit Kumar Pal, Sujoy Banerjee, Sumit Sarma Sarkar | ATM simulation |
| 7 | Hosenur Mondal, Palash Ghosh, Srimanta Maity, Sandip Dey | Web Based Application |
| 9 | Kabita Singh, Mozammil Alam, Rohit Kumar Thakur, Soumik Ray | E-learning with training and placement facility in a college dept. |
| 10 | Raja Dutta | On-line student Information System |
| 11 | Moumita Mishra, Priyanka Samanta, Sourav Mukherjee | Project On Cryptography |
| 14 | Bapai Saha, Payel Roy, Pritha Dutta | Efficient utilization and encryption of data in Network-On-Chip |
| 15 | Suman Chakraborty | Implementation of region based algorithm in Network-On-chip |
| 16 | Chandrima Roy, Nivedita Kar | Rule based fact finding of summarized data |
| 4 | Sabuj Chowdhury | Web based Application |
| 8 | Gargi Dey | Biological data mining |
| 12 | Biswabrata Dey, Dibakar Chakraborty, Soumik Banerjee, Sweta Singh | New Framework for measuring information dissemination of web content-its analysis and evaluation technique |
| 13 | Ankita Ghanty, Munmun Bangal, Saikat Mondal, Tathagata Bhattacharyya | Analysis and evaluation of threats, and security technique. |
| 17 | Pratim Sen, Ambar Roy, Biswajit Ghosh | Employee pay roll database system |

Certificate of Original Work by Guide (for One Student)

TO BE PRINTED IN COLLEGE LETTER HEAD ONLY.

TO WHOM IT MAY CONCERN

This is to certify that the Project Report entitled “<<**TITLE OF THE PROJECT**>>”, submitted to **JIS COLLEGE OF ENGINEERING**, Kalyani, Nadia under WEST BENGAL UNIVERSITY OF TECHNOLOGY in partial fulfilment of the requirement for the award of the degree of **Bachelor of Computer Application (BCA)**, is an original work carried out by <<**Name of Student**>> with University Roll Number <<*****>> under the guidance of <<**Name of Internal Guide**>>.

The matter in this project is a genuine work done by the student and has not been submitted elsewhere of any course of study.

<<Head of Dept.>>

<<Principal>>

Certificate of Original Work by Guide (for One Student)

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The matter in this project is a genuine work done by the student and has not been submitted elsewhere of any course of study.

<<Name of internal guide>>

Certificate of Original Work by Guide (for Many Students)

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The matter in this project is a genuine work done by the student and has not been submitted elsewhere of any course of study.

<<Head of Dept.>>

<<Principal>>

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The matter in this project is a genuine work done by the student and has not been submitted elsewhere of any course of study.

<<Name of internal guide>>

CHAPTER - 8

Sports

8.1. Second Sardar Jodh Singh Trophy, 2013 for Faculty and Staff

Organized 2nd consecutive year in a row by Mr. Rajdeep Chowdhury, Mr. Subhranil Som, and Mr. Supriya Chakraborty from Department of Computer Application in March, 2013. JIS College of Engineering cricket team were the winner for the 2nd consecutive year in a row defeating Narula Institute of Technology

8.2. Sixth Annual Sports, 2013 of JIS College of Engineering

Organized by Mr. Rajdeep Chowdhury, Mr. Subhranil Som, and Mr. Supriya Chakraborty from Department of Computer Application in March, 2013, held at JIS College of Engineering playground.

The list of positions secured by the faculty members and students are shown below:

| Name | Designation | Achievement |
|--|-----------------|---------------------------------------|
| Manas Paul | Assistant Prof. | 3 rd position in Short Put |
| Manas Paul, Sanjib Das, Rajdeep Chowdhury | Assistant Prof. | Winner in Tug of War |

8.3 Students Achievements

1. Student Cricket Team of JIS College of Engineering, Kalyani were awarded as Runner's up with Cash Prize worth Rs. 10,000 /- at the Inter College Cricket Tournament "Heritage Champions Trophy 2013", organized by Heritage Institute of Technology, Kolkata from 12th April, 2013 to 17th April, 2013. Team members represented Department of Computer Application are Harsh Vardhan Mandhyan (MCA), Jayanta Roy (BCA), Arnab Dutta (BCA), Subhadeep Das (BCA) and Snehasish Debnath (BCA).

2. Student Cricket Team of JIS College of Engineering, Kalyani were awarded as Runner's up at the Inter College Cricket Tournament "Cricket Premier League 2013", organized by Jalpaiguri Engineering College, Jalpaiguri from 28th February, 2013 to 3rd March, 2013. Team members represented Department of Computer Application are Harsh Vardhan Mandhyan (MCA), Jayanta Roy (BCA), Arnab Dutta (BCA), Subhadeep Das (BCA) and Snehasish Debnath (BCA).

CHAPTER - 9**Financial Budget**

| Budget for the Academic Session August, 2012 – July, 2013 | | | | |
|--|----------|-----------------|-----------------|--|
| Item | Quantity | Price in INR | Total in INR | Configuration |
| Technical - Project LAB | | | | |
| Computer | 30 | 60000 | | Intel i3 processor, 2 GB RAM, 500 GB Hard disk, DVD writer |
| CISCO 3113AP(Access points) | 1 | 30000 | | For 30 ports |
| Lensiz 50 GP (LAN Card) | 30 | 45000 | | |
| HP1020 | 1 | 6000 | | |
| Digital Camera | 1 | 22000 | | Nikon Coolpix P5100 Digital Camera |
| Sound Box (Woofers with two speakers) | 2 | 15000 | | Ahuza Two hanging speakers + 1 Microphone + 1 Amplifier |
| Microphone | 2 | 1750 | | Nady DKW-1 Wireless Microphone System |
| AC | 2 | 40000 | | LG split 1.5 tonn |
| | | | 759750 | |
| Faculty Room | | | | |
| Computers | 12 | | | Intel i3 processor, 2 GB RAM, 500 GB |

| | | | | |
|--|---------------------------------|--------|--------|-----------------------|
| | | | | Hard disk, DVD writer |
| 4x6 Cubical | 11 | 55000 | | |
| Faculty Chairs | 11 | 6000 | | |
| UPS | 11 | 10000 | | |
| Printer LaserJet 1020 | 1 | 5000 | | |
| Water filter | 1 | 5000 | | |
| AC | 1 | 30000 | | LG 2 Ton split |
| | | | 111000 | |
| Research and Development | | | | |
| Registration Charge for Publication | 3000 * 11 | 33000 | | |
| Participation fees in FDP/Seminar/Conference/Workshop | 1500 * 8 | 12000 | | |
| Organization of Conference/Seminar/Training/Workshop/FDP | Two seminars and one conference | 100000 | | |
| Faculty Training Programme | 2 | 20000 | | |
| Seed money for the project | | 30000 | | |
| | | | 195000 | |
| Departmental Library | | | | |
| New Books | | 6000 | | |
| ACM subscription | | 8000 | | |
| | | | 14000 | |