Prayag - Centre for Knowledge Informatics for Sustainable Development

According to World Commission on Environment and Development (1987), Sustainable development means - development which meets the needs of the present without compromising the ability of future generations to meet their own needs. It is concerned about environmental, economic, social, and cultural aspects. Sustainability has following dimensions:

- i. Conservation and enrichment of physical environment and cultural heritage
- ii. Enhancement of the accessibility and quality of basic facilities
 - Nutrition, water supply, housing, sanitation, health care, energy, transport, and safety
- iii. Advancement of the support system for enhancing human's happiness by focusing on intrinsic psychological needs social, cognitive, aesthetics, and self actualization.
 - Competence quality of education
 - Equity, Empowerment and Autonomy
 - Relatedness, cooperation, and collaboration
 - Creativity
- iv. Risk analysis and management

In the last twenty years, almost all academic disciplines have shown an increasing sensitivity towards the challenges of sustainability. Many researchers in diverse disciplines are now actively contributing discipline specific research on some topics wrt this important and pervasive theme. Following trends in IT are associated with sustainability:

- Green IT approaches, e.g., low power technology, cloud, reusability etc.
- Cloud computing
- Cyber security
- Accessible computing
- IT applications for healthcare, education, safety, energy management, water management, transport and traffic management, relatedness and collaboration, creativity support, entertainment, etc.

However, because of disciplinary boundaries, often the researchers in one discipline are not even aware of the work being done by their counterparts in other disciplines, even within the same university. Prayag aims to fill up this gap by creating a community of such multidisciplinary researchers at JIIT who are driven by the concerns of sustainable development. It has been envisaged as a forum to contribute towards deepening and broadening the understanding about the multifaceted challenges and solutions associated with sustainable development. It seeks to do so through facilitating and promoting discipline specific as well as IT inclusive cross-disciplinary approach.

In the last few years, a rich body of discipline specific research work has been generated by JIIT faculty and students. 71 faculty members and their scholars at departments of CSE&IT, ECE, HSS, Biotech, and Maths and also at Business school in JIIT have

collectively produced 209 publications as papers and book chapters about their investigations and proposed solutions on many of the above listed issues of sustainability. However, often the sustainability problems are complex and are beyond the realm of any single discipline. Sometimes they are also beyond the realm of documented knowledge and even awareness. Creations of sustainable systems require holistic thinking, cross-disciplinary approach, multi-perspective integration, and innovation. *Prayag, as an active community of researchers at JIIT, is making humble contributions for creating opportunities of multidisciplinary collaborations in this interdisciplinary task.*

Annexure 1

Fulbright Fellowship

Dr. Nripendra Singh

Date: August 2012-December 2012

Amount: \$12000

Category: Fulbright-Nehru Environmental Leadership Program (FNELP) 2012-13.

University: Pennsylvania State University, University Park, PA, USA.

Title: Waste Management in Hospitality Sector for Profitability and Sustainability.

Prayag - Centre for Knowledge Informatics for Sustainable Development Book:

- 1. Sharma, A., Garg, R. and Mohapatra, S. (ed.), Education and Women Empowerment, Pam leaf Publication, New Delhi, 2011. ISBN 10:8190991493.
- 2. Bhattacharjee, S. "Rural women and their quality of life", published by Pointer Publishing House, Jaipur, 2007.

Book Chapters:

- 1. Goel Sanjay (2013), Peer Mentoring in a Technical Institution: Undergraduate Mentoring in Software Engineering, in Smith, T. (Ed.), Undergraduate Curricular Peer Mentoring Programs: Perspectives on Innovation by Faculty, Staff, and Students. Lanham, MD: Lexington Books, UK., pp 107-120.
- 2. Goel Sanjay (2011), Nurturing Creative, Thinking Engineers, in Viney Kirpal (Ed.), Engineering Education: Challenges, Changes, Champion Teachers, WIPRO, India.
- 3. Goel Sanjay (2011), Cross-Level Peer Mentoring, in Viney Kirpal (Ed.), Engineering Education: Challenges, Changes, Champion Teachers, WIPRO, India.
- 4. Agarwal, Amba, "Disaster Management: A Study of Financing of Disasters Mitigation Programmes in India", published in New Dimensions of Disasters Management in India, edited by Dr Anjuli Mishra and Dr A K Singh, published by Serials Publications, Daryaganj Delhi. 2012. ISBN 9788183875646.
- 5. Agarwal, Amba, "Women Entrepreneurship: Emerging Issues, Challenges & Strategies", published in 'Women Entrepreneurship in India' edited by K. Sugna, A.K. Singh and R.V.M.Reddy, published by Serial Publications, Daryaganj, N.Delhi. 2012.

Faculty:

CSE

- 1. Dr. Yaj Medury(Chancellor JIIT & COO JES)
- 2. Dr. Alka Sharma (Dean & HOD HSS)
- 3. Prof. Sanjay Goel (HOD)
- 4. Prof.. Sanjeev Kumar Sharma
- 5. Prof. R.C Jain
- 6. Prof. G.K. Agarwal
- 7. Prof. Alka Choubey(Tripathi)
- 8. Prof.. Naseem Abidi
- 9. Dr. Satish Chandra
- 10. Dr. Shelly Sachdeva
- 11. Dr. Kamal Rawal
- 12. Dr. Chakresh Jain
- 13. Dr. Indira Sarethy
- 14. Dr. Sanjay Gupta
- 15. Dr. Krishna Sundari
- 16. Dr. Neeraj Wadhawa
- 17. Dr. Reema Gabrani
- 18. Dr. Sudha Srivastava
- 19. Dr. Sujata Mohanty
- 20. Dr. Vibha Gupta
- 21. Dr. Vibha Rani
- 22. Dr.Krishna Asawa
- 23. Dr. Vikas Saxena
- 24. Dr. Sandeep K. Singh

- 25. Dr. Divakar Yadav
- 26. Dr. Chetna Dabas
- 27. Dr. Chetna Gupta
- 28. Dr. Charu
- 29. Dr. Shikha Mehta
- 30. Dr. Devpriya Soni
- 31. Dr. Anuja Arora
- 32. Dr. Buddha Singh
- 33. Dr. Hima Gupta
- 34. Dr. Rajnish Kumar Misra
- 35. Dr. Asit Bandyopadhayay
- 36. Dr. Nripendra Singh
- 37. Dr. Moonis Shakeel
- 38. Dr. Rachana
- 39. Dr. Amba Agarwal
- 40. Dr. Nidhi Sinha
- 41. Dr. Sharmistha Bhattacharjee
- 42. Dr. Badri Bajaj
- 43. Dr. Santoshi Sengupta
- 44. Dr. Santosh Dev
- 45. Dr. Swati Sharma
- 46. Prakash Kumar
- 47. K. Rajlaxmi
- 48. Manish Kumar Thakur
- 49. Kavita Pandey
- 50. Sangeeta Mittal
- 51. Adarsh Kumar
- 52. Suma Dawn
- 53. Parmeet Kaur
- 54. Gagandeep Kaur
- 55. Indu Chawla
- 56. Niyati Aggrawal
- 57. Raju Pal
- 58. Santosh K. Verma
- 59. Tribhuwan Kumar Tewari
- 60. Archana Purwar
- 61. Adwitiya Sinha
- 62. Manas Ranjan Behera
- 63. Kanupriya Misra Bakhru
- 64. Namita Singhal
- 65. Debdeep De
- 66. Smriti Bhatnagar
- 67. Vineet Khandelwal
- 68. Juhi Gupta
- 69. Atul K. Srivastava
- 70. Gaurav. Verma
- 71. Shipra Kapoor

Publications in International Journals

- Jitendra Kumar Seth, Satish Chandra, "A Novel Design to Increase Trust in Cloud", International Journal of Computer Science Issues, Vol. 10, Issue 4, No 1, July 2013, ISSN (Print): 1694-0814;ISSN (Online): 1694-0784. [DBLP etc.]
- 2. Amanpreet Kaur, Neetu Sardana, " A Novel Image Steganography(NIS) Technique", International Journal of Engineering and Computer Science, Volume 2, Issue 8, pp 2533-2535, August, 2013.

- 3. Tewari, T. K., Saxena, V., Gupta, J. P.," A Novel Approach to Generate Watermarks Using Auditory Features for Audio Watermarking", Journal of Theoretical and Applied Information Technology. ISSN 1817-3195 (Online), ISSN: 1992-8645(print), Volume 35, Number 2, Pages 155- 162, January 2012.
- 4. Hema Nagaraja, Reema Aswani, Monisha Malik, "Plant Watering Autonomous Mobile Robot", IAES International Journal of Robotics and Automation, Vol 1, No 3:, ISSN: 2089-4856, September 2012.
- 5. Sandeep Jain, Ankush Mittal and Sujoy Roy, "Model-based image compression framework for CT and MRI images", International Journal of Medical Engineering and Informatics, vol. 3, no.1 pp. 40 52, 2011
- 6. Animesh Gupta, Kirti Srivastava, Hima Bindu Maringanti, "Mobile based Interaction System for the Paralyzed", Journal of Computing, JoC, published by Global Science and Technology Forum, GSTF, ISSN: 2010-2283 Singapore, Vol 2, No 4, pp. 93-96, Feb 2011.
- 7. Saxena, Vikas, and Gupta, J.P., "A Novel Watermarking Scheme for JPEG Images", WSEAS Transaction on Signal Processing, Issue 2, vol. 5, ISSN: 1790-5022, pp. 74-84, February 2009.
- 8. Saxena, Vikas, and Gupta, J.P., "A Novel Collusion Attack Resistant Watermarking Scheme for Color Images", IAENG International Journal of Computer Science, vol. 34, Issue. 2, ISSN: 1819-656X, pp. 171-177, December 2007.
- 9. Megha Rathi, Arun K Singh,"Breast Cancer Prediction using Naive Bayes Classifier",International Journal of Information Technology & Systems, Vol. 1; No. 2: ISSN: 2277-9825 (July-Dec. 2012).
- 10. Pooja Gupta, Sandeep Kr Singh, Divakar Yadav and A. K. Sharma, "An Improved Approach to Rank Web Document", Journal of Information Processing System, vol 9, vo. 2, pp 217-236, June 2013.
 Mukta Goyal, Divakar Yadav, and Alka Choubey, "E-learning: Current State of Art and Future Prospects", International Journal of Computer Science Issues, Volume 9, I

Awarded/Submitted/Ongoing PhD Dissertations

Prayag - Centre for Knowledge Informatics for Sustainable Development

Awarded:

- 1. Design of interventions for instructional reform in software development education for competency enhancement
- 2. An Examination of the Relationship between Emotional Intelligence, Leadership Styles and Leadership Effectiveness
- 3. Design of microstrip antenna conformable to both planar and cylindrical surfaces for aircraft Systems.
- 4. Investigating Determinants of sweetness of Sweet molecules

Ongoing:

- 1. Design of Resource Allocation, Scalability Schemes in Cloud and Distributed Environments.
- 2. Cost effective design for automation of agriculture that suits the Indian farmer.
- 3. Context-Sensitive Access Control and Pseudonymization approach for security of Electronic Health Record
- 4. Personalization in E-learning.
- 5. Tamil Language Processing.
- 6. Named Entity Recognition for Indian Languages as A Utility of Part of Speech Tagging.
- 7. Accurate, Early and Possibly automated Prediction and Preoperative Diagnosis of Gynecological Cancers exploiting Medical Images.
- 8. Trust based Security in Cloud Computing.
- 9. Current Security Issues and Trust Management Schemes in Mobile Ad hoc network.
- 10. Gesture Recognition for Collaborative work.
- 11. Energy latency trade-off for real time Wireless Sensor Systems.
- 12. Improving Software Quality with Effective Defect Prevention.
- 13. Preventing run time attacks and securing iOS devices using test driven approach.
- 14. Cloud Computing and its Issues.
- 15. Energy efficiency in Mobile ad-hoc Networks.
- 16. Energy Efficient Routing Protocols in WSN.
- 17. Sentiment Analysis.
- 18. Medical image processing using AI Techniques.
- 19. On line Social Media Analysis.
- 20. Sentiment Analysis & Opinion Mining on Online Social Networks.
- 21. Effect of work environment on happiness and welling being of employees.
- 22. Leadership and Emotional Intelligence.
- 23. A Study on Social Networking Usage Pattern within Indian Software Organizations.
- 24. Total factor productivity growth of Indian agriculture: The role of R&D investments.
- 25. Adjustment Pattern of Elderly in Delhi and NCR
- 26. Gender Differences in Technologies Adoption: An Empirical Study on STOC on Digital Library.
- 27. Development of Sustainable Supply Chain Management Framework for IT Products: An exploratory study
- 28. Developing a Composite e-Environment Sustainability Index (CeESI) for Information Technology Enabled Services segment of IT Industry
- 29. Effect of Organizational Justice and Psychological Capital on Employee Wellbeing and Turnover Intentions- Study of IT Sector
- 30. Management of hotel waste: An Inevitable Strategy for Profitability and Sustainability.
- 31. Propagation characteristics of TE and TM Modes in non-uniform circular cylindrical waveguides for Gyromonotron and Gyro-TWT Applications
- 32. Design and analysis of microstrip antenna conformal to Non Planar Surface
- 33. Small signal field analysis of Gyro-TWT amplifier.

- 34. Computational analysis and docking studies of microbial genomes to identify disease target
- gene/drugs.
 35. An automated pipeline of inverse docking method: for predicting protein targets for a given drug molecule.
- 36. Constructing comprehensive map of molecules implicated in obesity using computational approaches.

Some Ongoing / Completed M.Tech Dissertations:

Prayag - Centre for Knowledge Informatics for Sustainable Development Ongoing

- 1. Automatic Tagging and semantic segmentation of online lecture videos
- Evaluation and training of Kathak body postures and hand gestures using motion capture technology
- 3. Health Care Application in Android
- 4. Community Detection in Social Network
- 5. Smart Cloud: Cloud Services on the GO
- 6. Efficient Energy Proficiency of LEACH
- 7. Energy Efficient Routing Protocol for Wireless Sensor Network
- 8. Vehicular Traffic MGMT by ACO
- 9. Individualizing the test sheet for the student according to Bloom's Taxonomy using particle swarm optimization in E-Learning System
- 10. A Greedy Algorithm for Load Balancing in Cloud Computing
- 11. Recognition of printed Devnagri script of different from styles by using soft computing
- 12. Automatic generation of test sheets using genetic algorithm
- 13. Analysis, development and evaluation of mobile system enabled e- book learning system
- 14. Development of tools for repositioning of drugs.
- 15. Development of web enabled portal for side effects prediction.
- 16. Pharmacophore and QSAR modeling of acridones derivative.
- 17. Computational studies of anti-cancerous peptides.
- 18. Channel estimation in indoor visible light communication
- 19. Spectrum sensing in cognitive radio
- 20. PAPR reduction in OFDM Systems
- 21. PTS based PAPR Reduction in OFDM Systems
- 22. Dual band patch antenna for wireless application using frequency 2.4 and 5.2 Ghz
- 23. Gyro-TWT Analysis
- 24. Analysis of vane loaded circular cylindrical waveguide for Gyro-TWT Applications
- 25. Digital image forensics of contrast enhanced images
- 26. Study and implementation of PID controller for DC motor
- 27. Short delay defects in VLSI testing
- 28. Low power & area efficient design of BCD adder on FPGA
- 29. Circuit designing using organic thin film transistor

Completed

- 1. Reliable & energy efficient routing protocol for MANET
- 2. Enhancing cloud quality of service using trust management
- 3. Adaptive data migration for disaster recovery using cloud computing
- 4. Scheduling service oriented workflows inside cloud using an adaptive agent based approach
- 5. Ensure outsourced data security in private cloud environment
- 6. Development of SaaS and PaaS for cloud environment
- 7. Providing software as a service in cloud computing using virtualization technology
- 8. QoS aware virtualization simulator in cloud computing
- 9. Cloud desktop exploring cloud computing services
- 10. Bowling game using gesture recognition
- 11. Evolutionary approach to solve maze problems/board games using ant colony optimization
- 12. Implementation of data integrity in cloud data storage
- 13. Predictive analysis of lung cancer recurrence
- 14. Audiowarship: a game for blind people

- 15. Building and evaluating virtualized application in cloud environment
- 16. Future path prediction of moving object on road by analyzing past trajectories data
- 17. Medical image reconstruction using content adaptive mesh model
- 18. Secure and efficient digital certificate management for MANETs
- 19. Performance analysis and composition of signatures for misuse intrusion detection system using artificial intelligence
- 20. Network behaviour monitoring and analysis for detection and resistance of denial of services attacks
- 21. Digital reconstruction of Dravidian Architecture symbols
- 22. Multilayer Intrusion Detection System for Infrastructure as a Service Provider on cloud.
- 23. Development of Computational genomic tools.
- 24. Systems biology of obesity induced hypertension.
- 25. Construction of pathways involved in obesity induced diabetes mellitus using systems biology approaches.
- 26. Computational analysis of Mobile Genetic Elements (MGE).
- 27. Computational study of pathophysiology of obesity induced cardiovascular diseases.
- 28. Computational analysis of mobile genetic elements.
- 29. Comparative study of bacterial genomes using horizontal gene transfer.
- 30. Comparative analysis of retrotransposons.
- 31. Design an integrated computational and statistical system for mutational study in marR protein in mutational study in marR protein in enterobacteriales.
- 32. Frequency distribution analysis in 23s rRNA sequences of streptococcus & helicobacter sp. using mutual information theory.
- 33. Comparative study of microbial proteomes using phylogenetic profiling.
- 34. In silico study of protein-protein interactions of Argonaute proteins in higher eukaryotes.
- 35. To investigate the possible mechanism of inhibition by Apocynin towards NADPH oxidase.
- 36. In silico investigation of vasicine molecule as a potent inhibitor of Myeloperoxidase.
- 37. Molecular Docking and Knockdown Study of Glucosamine-6-phosphate synthase a potential antifungal target of Rhizopus oryzae.
- 38. Computational analysis of Vasicine as a potential inhibitor of nitric oxide synthase.
- 39. Phylogenetic Analysis for Knockdown Study of Glucosamine-6-phosphate synthase in Rhizopus oryzae.
- 40. Computational studies on antimicrobial activity of bioactive peptides.
- 41. In silico investigation of vasicine molecule as a potent inhibitor of Myeloperoxidase.
- 42. To investigate the possible mechanism of inhibition by Apocynin towards NADPH oxidase.
- 43. Computational study of inversion polymorphism in Dipterans.
- 44. Computational analysis of crucial elements for GLUT 4 Translocation in insulin signaling pathway.
- 45. In-silico Identification of miRNA and their target sites in cardiac hypertrophy.
- 46. Comparative genome analysis and protein function prediction.
- 47. Molecular evolutionary study of Anopheles culicifacies.
- 48. Channel estimation and PAPR in OFDM systems
- 49. Resource allocation in OFDMA and MIMO system
- 50. Control of home-appliances through IR interface using web (GPRS) enabled mobile phones
- 51. Performance analysis of non-linearities in Wireless System
- 52. Efficient and economical air-interface telecom network design using MIMO system
- 53. Adaptive radio resource allocation in multicast OFDMA systems
- 54. Noise reduction using adaptive empirical mode decomposition
- 55. Video compression using different image coders and reversible variable length codes
- 56. Vehicle speed measurement for accident scene investigation
- 57. Design of CMOS based PTAT circuit for temperature sensor and bandgap reference Circuit on 0.35 micron technology

Prayag - Centre for Knowledge Informatics for Sustainable Development

Some Ongoing/ Completed B. Tech Projects

Ongoing

- 1. Commuting made easy
- 2. Application of hadoop framework with security of cloud data
- 3. Data aggregation with cloud computing
- 4. Privacy preserving public auditing for secure data storage in cloud
- 5. Application migration on open source virtual machine for cloud environment
- 6. Cloud based university mgmt. system
- 7. Scheduler enhancement
- 8. Automated plant watering system
- 9. Maximizing security of data and user access over cloud
- 10. Traffic signal detection and tracking
- 11. Image compression and its practical implementation
- 12. Virtualization of the tutorial board
- 13. Automatic subtitle generation for sound in videos
- 14. Kidney stone detection system
- 15. Andromo (android based real time motion positioning)
- 16. Android application of attendance mgmt
- 17. Delhi trip planner
- 18. Fly space :: work space on fly
- 19. Emergency call
- 20. Location based discovery and information dissemination
- 21. Speed breaker early warning system
- 22. Help-in-hand
- 23. Personal recommendation system
- 24. Forecast daily solar energy with previous data and ensemble of weather models
- 25. Sentiment analysis of reviews on educational institutions
- 26. Graph theoretic approach to Hindi text summarization
- 27. Hindi Tamil text trans.
- 28. Shallow parser for Hindi language
- 29. Language translation
- 30. Adaptive e-learning system
- 31. Educational app. using kinect
- 32. E-learning based on cloud computing
- 33. Adaptive e-learning
- 34. Detection of copied codes or malpractices in code cloning
- 35. Online course system
- 36. Passive techniques for image tempering detection
- 37. Image forgery detection
- 38. Computer forensics
- 39. Detection of copied codes or malpractices in code cloning
- 40. Security application through forensic.
- 41. PAPR reduction in MIMO OFDM System
- 42. PAPR reduction in OFDM System with Index Modulation
- 43. Spectrum sensing in cognitive radio
- 44. Transmission capacity in next generation networks

- 45. Power line communication based on OFDM
- 46. Mail sorting system using RFID
- 47. DFT spreading technique to reduce PAPR in OFDM system
- 48. PAPR reduction in OFDM system
- 49. Sidelobes suppression and PAPR reduction in OFDM systems
- 50. BER comparison between traditional and Wavelet Packet based OFDM
- 51. Peak to average power reduction in OFDM
- 52. PAPR reduction using dummy sequence insertion based PTS
- 53. PAPR reduction of OFDM using modified PTS (using search algorithms)
- 54. PAPR reduction of OFDM using PTS without side information
- 55. A comparison of PAPR reduction techniques for orthogonal frequency division multiplexing (OFDM)
- 56. Automatic wireless health monitoring system in hospitals for patients
- 57. Performance of various modulation schemes in MIMO systems over wireless channel
- 58. Analysis of quantum efficiency of solar cell
- 59. Design and Analysis of rectangular patch antenna
- 60. Analyzing the performance and energy metrics of CMOS inverter at 350nm
- 61. The realization and study of second generation dual-x current conveyor (DXCC-II) and its application
- 62. Power and delay analysis of sense amplifier
- 63. Hardware designing of a Piezoelectric sensor
- 64. Implementation of a Memristor model using MATLAB
- 65. 8 byte static read write memory using CMOS.
- 66. Network based strategies for drug target identification in microbes.
- 67. Understanding genomic features using comparative genomics approaches.
- 68. ITS region as molecular identification marker in fungal species.

Completed

- 1. Speech Recognition & Synthesis Technology for People With Disabilities
- 2. Electronics TOLL Collection
- 3. A System for Analysis of Feedback Forms
- 4. A novel mp3 the music with senses
- 5. Content based retrieval system for archaeological images
- 6. Art gallery search engine
- 7. Biometric security system via finger prints
- 8. Implementation of genetic algorithm on clustered computers in solving traveling salesman problem
- 9. Integration, analysis and prediction of psychological and learning aspects of students
- 10. E-LEARNING
- 11. Bluetooth Based E-Learning System
- 12. Licensed software authorization
- 13. Road Traffic Simulation
- 14. Energy Efficient Communication for manets
- 15. Global Positioning Surveillance System
- 16. Automated software analysis for parallel computing
- 17. Extending Fault Tolerance and Parallel I/o for Parallel Programs Using MPI
- 18. Application of Image processing techniques to approximate natural resources of an area.
- 19. Music Compression Control System
- 20. Emotion Detection
- 21. Automated Direction Controlled Vehicle
- 22. Multi chat & desktop sharing an information sharing system
- 23. Soft phone: internet telephony
- 24. Decision support system for health care specialists: a fuzzy data mining approach.
- 25. A gesture recognition architecture for American sign language
- 26. Ontology learning & creating a word net based bilingual treasurers
- 27. Expert system for dental surgeon

- 28. Ensuring Privacy in Health Information System
- 29. Wireless based Vehicle Space tracking system
- 30. Doctors Tracking system using radio Frequency
- 31. Smart Card Implementation
- 32. Visually Enabled Nuclear Arm
- 33. "Kahani-Kaar" Interactive Digital Storytelling, your way
- 34. Children Gaming (using object & sound recognition)
- 35. Gesture-based Interaction for the Paralyzed
- 36. Guitar Play
- 37. Intelligent terrain mapping
- 38. Interactive story telling tool
- 39. Proenvironmental City Planner A Computer Game
- 40. Storyline Animation Using Flash
- 41. An Application S/W on Regional Transport Office
- 42. Auto Attendance Marker
- 43. Automated Response System
- 44. Customized Virtual Garment Design/A user-friendly Marketing Decision Support System
- 45. Disaster Management System: A Multi Agent Approach
- 46. SMALL AND MEDIUM ENTERPRISE GURU CUSTOMER RELATIONSHIP MANAGEMENT SUITE
- 47. Telugu Language Processor
- 48. E-Learning- Multiagent approach
- 49. Enhancing University's competitiveness through ICT based Knowledge Management System
- 50. Collaborative Academic Repository
- 51. Haptic device for Learning and Entertainment
- 52. Intelligent Tutoring System for Learning Disabled Children
- 53. Interactive Environmental Study
- 54. Virtual Teaching System
- 55. Sports management system
- 56. Time Table Management
- 57. Tracking system for Commonwealth games
- 58. Vehicle Tracking System
- 59. Virtual Medicare System
- 60. Web Based Hospital management System-Multiagent approach
- 61. Web Based multiagent System: A Solution for Polio Vaccination Programme
- 62. Advance traffic management system using sensor networks
- 63. Server to client lecture capture and transmission
- 64. Traffic congestion control and alternative path finding using gps navigation
- 65. Bluetooth location tracker
- 66. Travelling guide using data caching
- 67. Distributed parallel storage system
- 68. Green os: future low power operating system
- 69. Vehicle intelligence with system transport application
- 70. Dial-in assistant
- 71. Medical imaging and denoising
- 72. Vision based gaming
- 73. Diagnosis and helping the children suffering from autism
- 74. Animatronics an interactive tool to create multimedia comics
- 75. Multimedia software tool for deaf and dumb people using indian sign language (saathi)
- 76. Design & development of 3d car racing game & improving its interactivity by different means of input.
- 77. Video compression
- 78. Vehicle registration number recognition (vrnr)
- 79. Interactive classroom system
- 80. Content management system for an online newspaper
- 81. Sms enabled route tracking system
- 82. Digital library of indian monuments

- 83. Complete campus solution
- 84. A convenient online e voting approach for indian scenario
- 85. Using an optimal and fair algorithm to the carpool problem and developing a web enabled carpool system
- 86. Information repository for water resources ngo (india water foundation)
- 87. Automated and intelligent online cancer diagnosis system
- 88. University recommendation system
- 89. Intelligent online medical diagnosis system
- 90. Rural healthcare management system using mobile technology
- 91. Cybler: a web based virtual classroom
- 92. Novel recommendation system for travelers
- 93. Emotion detection using voice tone analysis
- 94. Auto hindi text summarization tool
- 95. Air quality information system
- 96. Discovery of patterns in climatic conditions
- 97. Multiagent intelligent travel planning using cbr and ga
- 98. Computation of user- based query using natural language processing case study: health domain
- 99. Basic calculus learning tool
- 100.Risk analysis tool
- 101. Campus recruitment facilitation system
- 102. A plug-in for inline search developed on cloud google app engine
- 103. Ant colony algorithm in manet
- 104. Development of cloud computing application using amazon's elastic map reduce
- 105. Simulation of traffic flow and effective management of traffic lights
- 106.Support application for cloud
- 107. SERVICES TO INDIAN RAILWAY SYSTEMS
- 108.AUGMENTED REALITY THEME PARK FOR KIDS
- 109.CBIR IN MEDICAL IMAGE
- 110. Classification of Skin Cancer Through Image Processing
- 111.Robotics Curriculum Designing for School Children
- 112.Swar-Indian Sign Language Interpretation
- 113.TRANSLINK: INTEGRATED TOURIST INFORMATION MANAGEMENT SYSTEM
- 114. VOLUME RENDERING USING MEDICAL DATA
- 115. An E-LEARNING System Based on Learner's Cognitive Model and Learning Resource Adaption
- 116.COURSE RECOMMENDATION FORUM
- 117. Kmportal A Knowledge Management Portal for JIITU
- 118.MOBILE HEALTHCARE APPLICATION
- 119.MULTILINGUAL LEARNING MANAGEMENT SYSTEM
- 120.MY BOOKMARKS(A Facebook Application for Online Bookmark Storage)
- 121.NCR Almanac Compiled NCR Cyclopedia
- 122. Online Quiz Application
- 123.PERFORMANCE ANALYSIS OF ONLINE TEACHING SYSTEM
- 124. Genetic algorithm based adaptive e-learning scheme and test generator
- 125. Hindi speech to text converter
- 126. Performance analysis of online teaching system
- 127. A predictive health analysis
- 128. A tool for automatic video surveillance through multiple cameras
- 129. A vision-based approach to early detection of drowning incidents in swimming pools
- 130. Automatic paper checking tool
- 131.E- HEALTH RECORDS (Patient Health Information System)
- 132.Cloud OS
- 133. Dynamically exchanged information through cloud
- 134.Performance analysis in Cloud Comp
- 135.Resource Sharing on cloud/Cryptography
- 136. Rural health care app on cloud
- 137. Traffic Management through vanets (Vehicular adhoc networks)

- 138. Visualization network traffic as 2-D image for analogy detection.
- 139. Automated pot watering system
- 140. Autonomous Unmanned Aerial Vehicle
- 141.A Cost Optimized Robotic Entertainment Solution with Assistive Technology for the Vocally Impaired
- 142. A toolkit for real time depth from a moving camera with application for Blind.
- 143. Criminal identification using face detection technique
- 144. Diseases diagnostic system using MRI data classification
- 145.English Conversion
- 146. Kahanikar An Interactive Multimedia Story Teller
- 147. Qutub engraved with history: Virtual exploratium
- 148.Recognition and classification of skin cancer using image processing
- 149.IT for blind
- 150.Mining the E-Business
- 151. Multiple Communication channel between students and fileserver
- 152. Synchronization and personalizing response system for university
- 153.AADHAR A Tracking System for Immunization and education in India
- 154. An Intelligent Machine for old age people/ patients
- 155. Android GPS Tracker & Live Locator
- 156. Automated mathematical problem solving tool(using NLP)
- 157.Cloud base virtual shopping
- 158.Data mining for medical applications
- 159.Drishti A reading tool for the blind
- 160.Gesture based fun and learning interactive tool
- 161. Healthcare application for disease prediction
- 162. Hybrid of Different SVM based classifiers and genetic algorithm for prospects of breast cancer survivability
- 163.Intelligent smart English tutor
- 164. Intelligent System on Healthcare
- 165.Map learning by ART2MAP
- 166. Novel medical diagnosis using Artificial Intelligence
- 167.Prediction of Type II diabetes mellitus
- 168. Synchronization and personalizing response system for university
- 169. Vehicle for physically challenged
- 170. Vision based assistance for vehicular navigation Erp for college
- 171. Time table generator
- 172.Develop a visualization technique for detection of congestion control exploits for high speed TCP variants
- 173.Cloud virtualization
- 174. Application of sensors in medical field
- 175.Implementation of PAAS in cloud computing
- 176.Remote Desktop control using cloud computing
- 177.Bushido Self defense training unit
- 178.Breast cancer diagnosis
- 179. Virtual Reality Bowling game using hand gesture
- 180. Video Cartoonization
- 181.School it solution
- 182.Cancer Detection
- 183. Hindi Summarizer and QA System.
- 184. Peak to Average Power Reduction in OFDM
- 185.PAPR reduction and ICI cancellation of OFDM system
- 186. Spectrum sensing in cognitive radio
- 187.Performance analysis of MIMO-OFDM transmission schemes and equalization techniques
- 188.Reduction of PAPR Of OFDM signals using companding transforms
- 189.Performance analysis of coherent optical receivers
- 190. Sidelobe suppression technique in an OFDM based cognitive radio
- 191. Throughput analysis in TDD-LTE & FDD-LTE systems

- 192.Performance study of MIMO space time coded systems
- 193. Adaptive bit allocation for OFDM cognitive radio systems
- 194. Ultra high capacity DWDM transmission system
- 195.Reduction of PAPR of OFDM signals using companding transforms
- 196.Localization of malicious nodes in an ad-hoc network
- 197. Study of indoor and outdoor wireless channel models
- 198.Impact of node positioning and energy efficiency in wireless sensor networks
- 199.Study of exposed node problem and comparison of its throughput to that of the hidden node problem in 802.11 Wireless networks
- 200.Performance study of wireless channels
- 201. Noise minimization and channel estimation techniques
- 202. Prospective exploration of spectrum opportunities in cognitive radio
- 203.Improvement of PAPR by LDPC codes with PTS in PFDM signals
- 204. Analysis of turbo coded OFDM System in various fading environments. [Performance measure-BER (Bit Error Rate)]
- 205. Virtual capacity allocation and reduction in call establishment delay
- 206.Energy efficiency in ZIGBEE networks (Design of ZIGBEE Transceiver and its modeling)
- 207. Design and optimization of microstrip patch antenna for increased bandwidth.
- 208. Microstrip patch antenna designs.
- 209. Multi-dielectric layers microstrip antenna.
- 210.Plane wave reflection coefficient from near field measurement
- 211.Onlinear pulse propagation in a weakly birefringent optical fiber: Derivation and approximate solution of coupled nonlinear Schodinger equations
- 212. Study of acoustics in porous medium
- 213. Watermarking for Image and compressed video
- 214.EEG signal classification for brain computer interface
- 215. Digital camera forensic methods
- 216. Distance regularization technique for closed contour segmentation in ultrasound images
- 217. Alpha estimation in natural Image
- 218.Data compressions: MP3 and EZW
- 219. Segmentation of ultrasound images of Gall bladder
- 220.Study and implementation of video codec: MPEG 4
- 221. Personalized computer with speech recognition for paralytic patients
- 222. Heart Rate meter and analysis of heart rate variability
- 223. Detailed study and implementation of connectivity modules in android application using ECLIPSE
- 224.GSM based home automation with intensity control
- 225.Smart traffic light system
- 226. Power reduction of VLSI circuits using optimization algorithms
- 227.Low power dissipation in a multiplier
- 228.CMOS Schmitt trigger circuit with controllable hysteresis using logical threshold voltage control circuit
- 229. Realization of electronically tunable multi-mode active-C BI-QUAD filters using OTAs
- 230.SWARM di-BOTICS.. the evolution of "SYNCHRONIZED" machines and study of Drone technology
- 231. Design and implementation of ethernet based home automation
- 232. Implementing Memristor model in Verilog
- 233.Integration of SAW device and delay line for the development of oscillator based Temperature/Gas sensor
- 234. Filter design using Virtex-4 FPGA
- 235. Layout of analog and digital basic building blocks
- 236. Combinatorial circuit design using Genetic Algorithm
- 237. Electronically Tunable Voltage mode Bi-Quad filter/oscillator based on CCCCTA
- 238.Pilot based estimation in MIMO OFDM system
- 239.A Space-Time -Frequency Diversity Scheme for MIMO-OFDM system
- 240. Elapsed time of ongoing calls of same rate for assignment
- 241.Intelligence on Wireless security and surveillance system

- 242. Study and implementation of video codec: MPEG 4
- 243. Image enhancement of color images by scaling DCT co-efficients and removal of blocking artifacts.
- 244. Analysis of siRNA sequences involved in cervical cancer gene silencing.
- 245. Development of characterization strategies for Hypothetical Gene Sequence and Proteins.
- 246. Computational Prediction and Modeling of 23 S rRNA Mutations.
- 247. Comparative analysis of MAR locus in Enterobacteriaceae members.
- 248.A comparative analysis of SiRNA prediction tools.
- 249. Analysis of Protein Folding Trajectories.
- 250. Development of Web enabled Database of SiRNA Delivery Systems available for In Vivo.
- 251. Streptomyces Information system.
- 252. To study the selected pathways for effective inhibition in Rhizopus Oryzae.
- 253. Functional Genomics and Network biology of pathogenic microbes.
- 254. Identification of drug target using comparative genomics and pathways modeling approaches in microbes.
- 255. Development of MedHealth Plex System.
- 256.Exploring genomic boundaries.
- 257. Development of annotation system of disease genes.
- 258. Medhealth System.
- 259. Exploring genomic boundaries: signals at TSS.
- 260. Development of genome annotation tools.
- 261. Development of automated tools for inverse docking.
- 262. To understand network biology tools and identify drug targets.
- 263. Analysis of Drug Targets using computational approaches.
- 264. Mining of NmU gene 5' flanking region for transcription regulatory domains.
- 265. Domain Mapping of Chikv Nsp's involved in Viral Protein Interaction.
- 266. Mapping of Chikungunya Envelope protein Interactions.
- 267. Mapping of Protein interaction domain of N protein of Chandipura virus.
- 268. Molecular phylogeny of Indian Drosophila species: a multilocus approach.
- 269.Stress-induced gene expression profiling: insights from Drosophila.