



CHILDREN'S EDUCATION SOCIETY (Regd.)
THE OXFORD COLLEGE OF ENGINEERING

(Recognised by the Govt. of Karnataka, Affiliated to Visvesvaraya Technological University, Belagavi & Approved by A.I.C.T.E. New Delhi & Accredited by NBA New Delhi and Recognised by UGC Under Section 2(f))

Bommanahalli, Hosur Road, Bangalore -560068.

Ph: 080 -61754601/602, Fax: 080 - 25730551

E-mail: engprincipal@theoxford.edu Web: www.theoxford.edu

7.3 Institutional Distinctiveness

Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust

7.3.1- Distinctiveness of The Institution

(1) Faculty and Student Involvement In Innovation And Research:

TOCE being established to train graduates in their respective branch, have holistic outlook towards life and have desire to work for national needs and beyond. The graduating student must have excellent knowledge and skills in the area of his / her study. However, he/she must have broad understanding of society and relationship. Characters need to be nurtured as an essential quality by which he/she would understand and fulfill his /her responsibility as an Engineer, a citizen and a human being. Besides the above, several meta-skills and underlying values are need. Research experiences have a positive impact on academic performance, cognitive skills and intellectual growth. They also give students a sense of the subject beyond the lecture, lab and seminar. Research experience develops skills that cannot be gained in the classroom.

During the research, the student will learn how to:

- Develop a research proposal
- Carry out a literature search and write a research gap
- Carry out the research processes
- Analyze results
- Write-up the body of work as a technical report

Outcomes:

Provide an opportunity to pursue research in a topic within the broad area of the student's interest.

Undertaking the research will enable the student to:

- Development of problem solving skill
- Survey of topic
- Analyze and carry out an independent study
- Enhancing best writing and presentation skills for scientific communication

Student Paper Presentation

2016-17

| S.No | Name of the students | Department | Title of the paper | Name of the conference | Date |
|------|--|------------|--|------------------------|-----------------|
| 1 | Jahnavi V ,Shruthi T S , SamradhaRao, Sujan Kumar | ISE | A Secured body Sensor healthcare Monitoring System for Elderly Peoples | Presented | 6, June 2017 |
| 2 | Priyanka B J , Nalinakshi B. G | ECE | Design and Development of Two Factor Authentication System for E- Services Using DNA and Asymmetric Cryptography | Presented | 6, June 2017 |



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|----|--|-----|---|---------------------|--------------------------|
| 3 | Triveni Pujari, Nalinakshi B. G | ECE | Flow-Based Network Traffic Classification Using Clustering Technique with MLA Approach | Presented | 6, June 2017 |
| 4 | Sushrutha H.B, Manjula Ramanna Kuri, Pragathi A.R Pavithra M | ECE | A wrist band based human interface device for PWD, NMAMIT, Karkala Taluk, Udupi | Participated | 11th & 12th August, 2017 |
| 5 | Sushmitha R, Niveditha C, Sai Thejashree | ECE | Embedded Systems & IOT, ISM UNIV | Participated | 5th May, 2017 |
| 6 | Sai Thejashree U V, Sushmitha R, Niveditha C | ECE | Color Constancy for consumer display device using Minkowski norm, NCSEM, TOCE, Bangalore | Presented | 26-27 May 2017 |
| 7 | Prakash k, Shwetha J, Piruthiviraj P | ECE | Real time implementation of multimedia traffic using virtual router and physical router in optical networks, NCSEM, TOCE, Bangalore | Presented | 26-27 May 2017 |
| 8 | Vikas R S, Yeshwanth G R | ECE | QCA Design of an Equality detector and memory register, NCSEM, TOCE, Bangalore | Presented | 26-27 May 2017 |
| 9 | Veena C | ECE | Advances in Nanomaterials and Nanotechnology (ICANN-2016) | Poster Presentation | 4-5 November 2016 |
| 10 | Ragini | ECE | Autonomous car, IEEE WIECON ECE 2016, Pune | Presented | 20th December, 2016 |
| 11 | Nishanth Reddy, Avinash, Sreenivasulu Vijay Kumar Gowda | ECE | Image Processing, ICEIC, Vietnam | Presented | January 2016 |
| 12 | Allen Vivean Miranda and Ashwin P | ECE | Quantum dots, International IEEE Conference, Indiacom 2016 | Presented | 2016 |



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|----|--|-----|--|---|------------------------|
| 13 | Allen Vivean Miranda | ECE | Delhi An Efficient Design of 4-Bit Serial Input Parallel Output/Serial Output Shift Register in Quantum-Dot Cellular Automata, BVICAM Delhi | Presented | 2016 |
| 14 | RanjithKumar Chubikchan Janardhan Pavan Varada | MTE | Linear actuating gripper | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 15 | Chetan R R Shashi Kumar Rohan N Karthik M | MTE | Wireless Annunciator | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 16 | Shashank S K Mohd. Moin Shashi Kumar Jyothi A Neetha N | MTE | Magnetic Levitation Bearings | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 17 | Adithya K Shetty Dhanush S Shrinidhi S Uppoor Syed Nadeem | MTE | Oil circulation facility in Isolation valve | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 18 | Raju E Amrutha M Karthik Raj B G Kiran Kumar A L | MTE | Design and development of Automated dig painting system | National conference on sustainable engineering | 26th and 27th may 2017 |



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| | | | | and management held at T.O.C.E Bangalore | |
| 19 | Archana AS Monisha C Shekar Mahesh Rand Safee Omer | MTE | Design and development of weld jig | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 20 | Abhishek Chandrasekharan Lijo Varghese Thomson Peter Ashish Sivan | MTE | IOT based digital pollution indicator | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 21 | Diana George Megha P Rajarajeswari Premanand Sheeba Thomas | MTE | Automation in beverage industry using programmable logic controller | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 22 | Mohan Kumar B Mohiddin Pichai Labbai Prashanth Shembi Sanjay BC | MTE | M.A.R.S(Mapping all terrain robot surveillance | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |
| 23 | Indumathi M JC Dhanush Lochan TU Palika K | MTE | Automatic gates based on electrostatic discharge controller | National conference on sustainable engineering and management held at T.O.C.E Bangalore | 26th and 27th may 2017 |



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Faculty publications 2016-17

| S.No | Name of Faculty | Department | Name of the Journal | Title | Year of Publication |
|------|-------------------|------------|--|---|--|
| 1 | Dr.Nagaraj. R | ECE | Indian Journal of Science and Technology | Improved Delta Operator based Discrete Sliding Mode Fuzzy Controller for Buck Converter. | 0974-6846 ,Vol.10 (25), July 2017 Scopus |
| 2 | Dr.Preeta Sharan | ECE | International Journal of Electronics, Electrical and Computational System IJEECS, academic science Indexed in Q.Sensei | Metal Dielectric Plasm -Optical Data Storage | ISSN 2348-117X Volume 6, Issue 7 July 2017 |
| 3 | Dr.Preeta Sharan | ECE | International conference on Circuits, Controls & Communications (CCUBE) | Detection of Marijuana in blood using GaAs substrate based photonic sensor 2017 | INSPEC Accession Number: 17862303 DOI: 10.1109/CCUBE.2017.8394161 Publisher: IEEE Conference Bangalore,India |
| 4 | Dr. Preeta Sharan | ECE | 2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom), IEEE Xplore | Wireless digital cross connect SOC for optical networks using FPGA | Electronic ISBN: 978-9-3805-4421-2 Citations- |
| 5 | Dr.Preeta Sharan | ECE | Indian Journal of forensic medicine and toxicology | Internet connected biometric voting machine with split architecture | ISSN: 0973-9122 ISSN Online:0973-9130 |
| 6 | Dr.Preeta Sharan | ECE | International Journal of Engineering Technology, Management and Applied Sciences | Optical Biochip Design for Detection of Harmful Chemical Drugs by a Material Oriented approach | July 2017, Volume 5, Issue 7, ISSN 2349-4476 |
| 7 | Dr.Preeta Sharan | ECE | IEEE International Conference on Antenna Innovations & Modern Technologies for Ground, Aircraft and | Improvement in the design of randomly spaced linear antenna arrays in terms of peak side lobe level | INSPEC Accession Number:17913008 DOI: 10.1109/IAIM.2017.8402569 Publisher: IEEE |



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| | | | Satellite Applications (iAIM) | | Conference Location: Bangalore, India |
|----|------------------|-----------|--|--|---|
| 8 | Dr.Preeta Sharan | ECE | Indian Journal of Forensic Medicine & Toxicology (Scopus Indexed) | Internet Connected Biometric Voting Machine with Split Architecture | 2017, Volume : 11, Issue : 2 First page : (442) Last page : (444) Print ISSN : 0973-9122. Online ISSN : 0973-9130. Article DOI : 10.5958/0973-9130.2017.00162.1 |
| 9 | Dr.Preeta Sharan | ECE | International Conference on Computing and Communication Technologies for Smart Nation (IC3TSN) | Designing four channel Nano cavities coupled photonic crystal based bio-sensor for detection in water bacteria | INSPEC Accession Number: 17545191 DOI: 10.1109/IC3TSN.2017.8284456 Publisher: IEEE Conference Location: Gurgaon, India ,2017 |
| 10 | Sridhar N | ECE | IJERT (Scopus indexed) | Development of Adaptive Filter using FPGA for Structural Application | ISSN: 2278-0181, Pg. 91-93, Special Issue 2017. |
| 11 | Dr. Surekha M | Chemistry | International Journal of Combined research and development, I.J.C.R.D | Kinetics and Mechanism of Oxidation of EDTA by NBS in the presence of acid and alkaline medium - A Comparative Study. | ISSN- 2321 - 225X Volume No. 07, Issue 01 |
| 12 | Dr. Surekha M | Chemistry | J. Electro Chem. Soc. | Oxidative Cleavage of EDTA with N-Bromophthalimide in the presence of Sodium Dodecyl Sulfate: A Kinetic and Mechanistic Study" | Vol. 61-1-1 40-44, 2017 |
| 13 | Dr. Surekha M | Chemistry | I.J. Innovative research in Science and Engineering | A Comparative study of palladium(II) catalyzed oxidation of L-leucine and L- Iso- leucine by alkaline permanganate- A kinetic and mechanistic Approach | Volume No. 03, Issue 03, 2017 |
| 14 | Dr. Surekha | Chemistry | J. Advanced | Kinetic and | 10.21474/IJAR01/3671, |



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|----|---------------------|-----------|---|---|---|
| | M | | Research | Mechanistic Study of Palladium (II) catalyzed oxidation, Deamination and Decarboxylation of Glycine by Alkaline Permanganate | Issue 5(3), |
| 15 | Dr. Surekha M | Chemistry | J. Electro Chem. Soc. | Ru(II) catalyzed oxidation of (+) - R - Pantothenic Acid by aqueous alkaline medium by Alkaline Permanganate | Vol. 61-1-1 45- 50, 2017 |
| 16 | Dr. Surekha M | Chemistry | National Conference on Sustainable Engineering and Management | Palladium(II) catalyzed oxidative degradation of threonine by alkaline permanganate | 26-27th May 2017, The Oxford College of Engineering |
| 17 | Dr. Surekha M | Chemistry | National Conference on Sustainable Engineering and Management | Oxidative Cleavage of EDTA with N-Bromophthalimide in the presence of Sodium Dodecyl Sulfate: A Kinetic and Mechanistic Study | 26-27th May 2017, The Oxford College of Engineering |
| 18 | B.Devi Vighneshwari | EEE | International Journal of Electrical Engineering, Vol.10, Issue 3, PP.309-323, 2017. | "Identification of Disturbance & Affecting the Efficiency in Power System using Feed Forward Neural Network" | ISSN: 0974-2158 |
| 19 | B.Devi Vighneshwari | EEE | International Journal of Electrical & Computer Engineering (IJECE) Vol 6 No 5 PP: 2437 - 2446 | Insight on effectiveness of frequently exercised PQ classification Techniques. | ISSN:2088-8708. |



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PATENTS FILED BY FACULTY

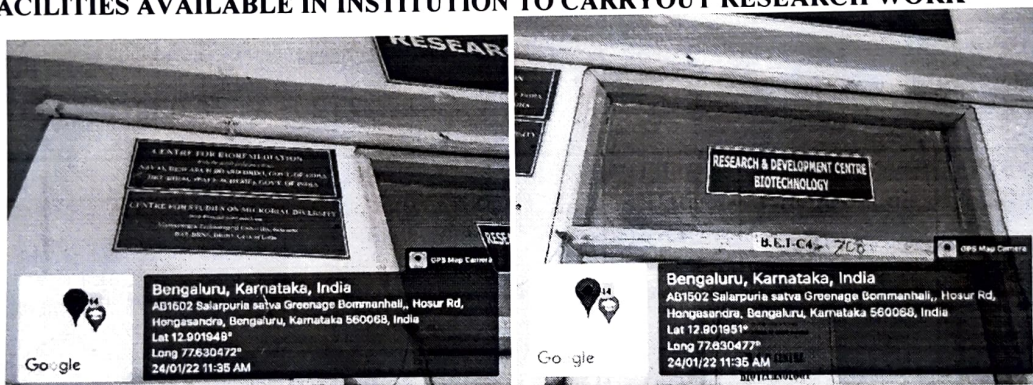
CSE

| Sl.No | Name Of Investigator | Patent Name | Filing Date | Patent Details | Published Date |
|-------|----------------------|---------------------------------|-------------|----------------|----------------|
| 1 | Dr E Saravana Kumar | Helmet wear notification system | 04/07/2017 | 201741003249 A | 07/04/2017 |

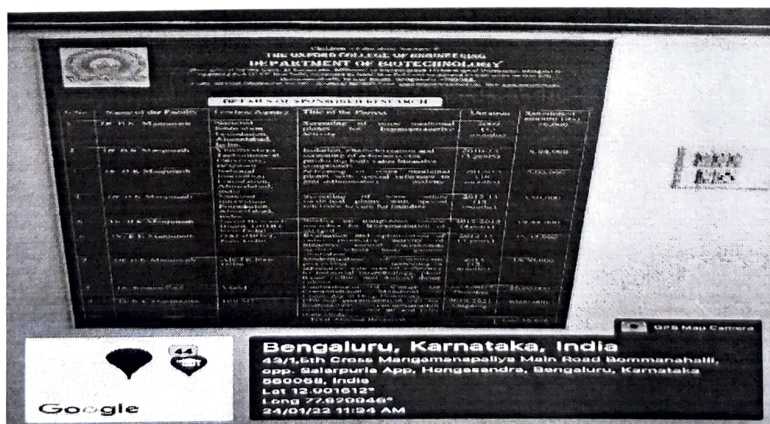
ECE

| Sl.No | Name Of Investigator | Patent Name | Filing Date | Patent Details | Published Date |
|-------|----------------------|---|-------------|---------------------|----------------|
| 1 | Dr. Preeta Sharan | Photonic Crystal based Piston Type Micro Pressure Sensor. | 12/28/2017 | E-01/29979/2017-CHE | |

FACILITIES AVAILABLE IN INSTITUTION TO CARRYOUT RESEARCH WORK



Research & Development Centre, Dept of Biotechnology



Research Projects & Grants, Department of Biotechnology



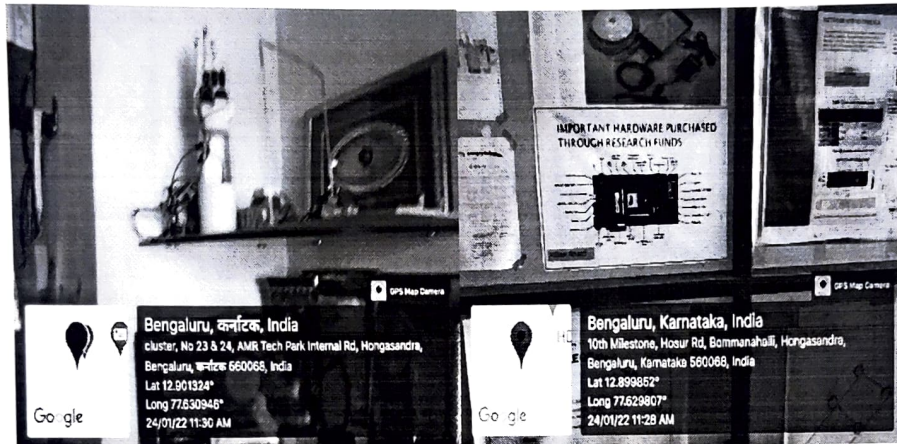
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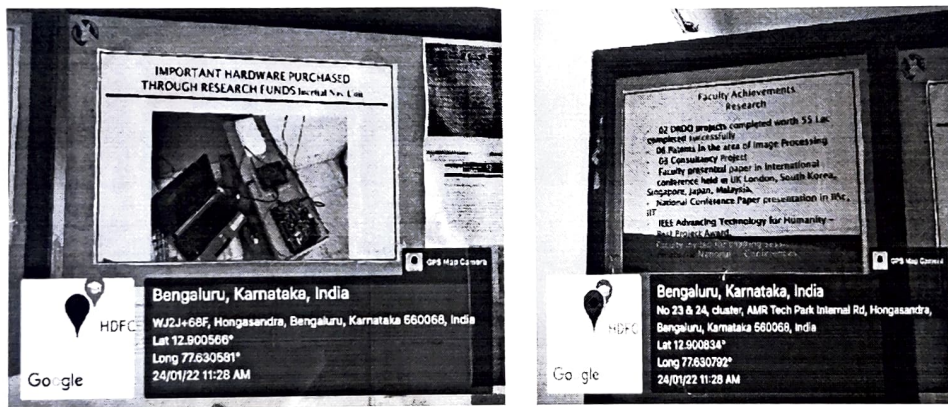
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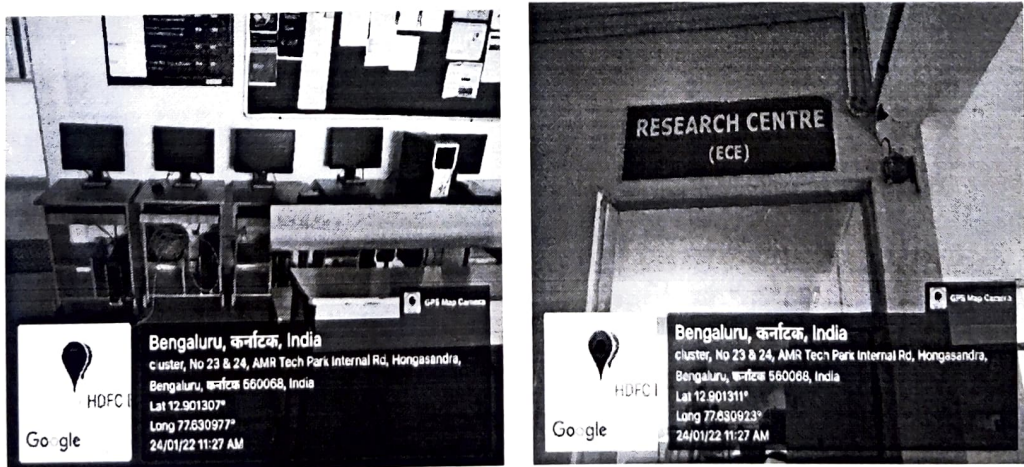
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Research Projects and funds received, Department of ECE



Research Projects and funds received, Department of ECE

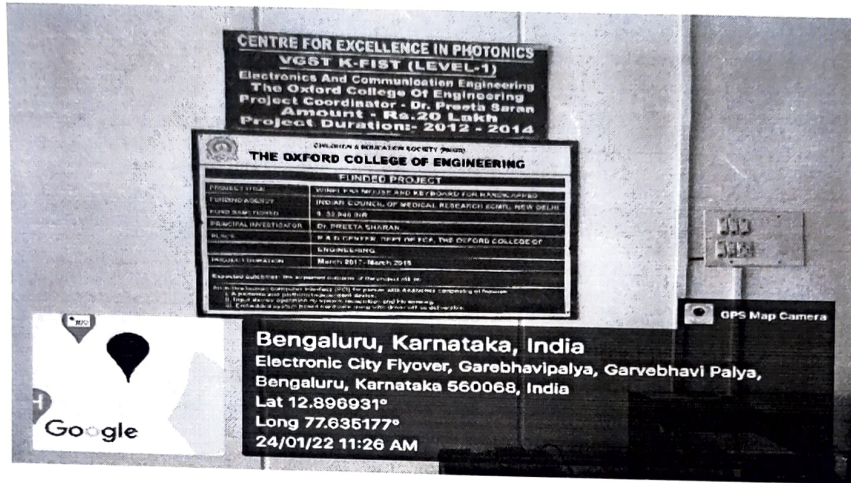


Research centre, Department of ECE

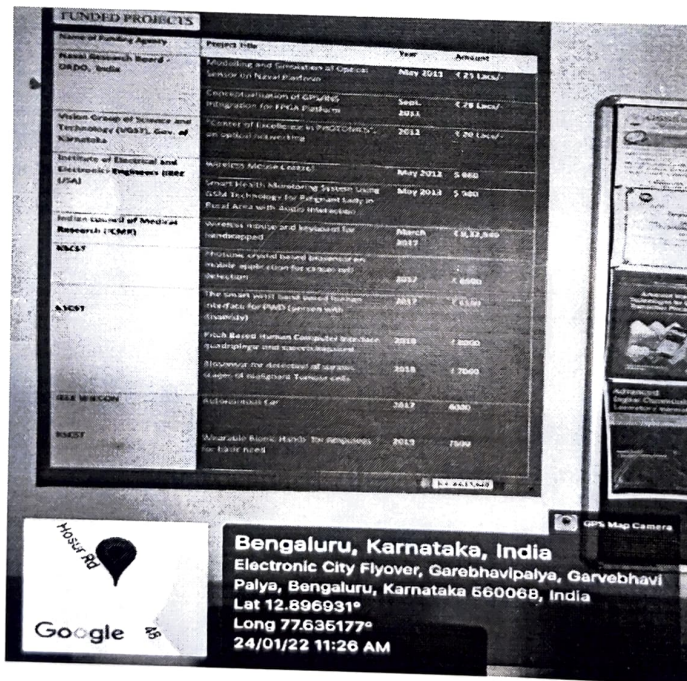


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Research projects, Department of ECE



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Head of the Institution
The Oxford College of Engineering

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