**Industry - Institute Interaction**

**INITIATIVES**

**Department of Civil Engineering**





**GOVERNMENT COLLEGE OF TECHNOLOGY**

***(An Autonomous Institution affiliated to Anna University NAAC accredited `A` Grade)***

**Thadagam Road, Coimbatore – 641 013**

[**www.gct.ac.in**](http://www.gct.ac.in)

**Industry - Institute Interaction – Schemes**

1. Establishment of Industry-Institute Partnership /interaction Cell.
2. Organizing Workshops, conferences and symposia with joint participation of the faculty and the industries.
3. Participation of experts from industry in curriculum development.

4. Visits of staff members to various industry

5. Professional consultancy by the faculty to industries.

6. Joint research programmes and field studies by faculty and people from industries.

7. Visits of faculty to industry for study and discussions or delivering lectures

8. Visits of industry executives and practising engineers to the Institute for seeing research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences.

9. Memoranda of Understanding between the Institute and industries

10. B.E. and M.E. projects/dissertation work in industries under joint guidance of the

faculty and experts from industry.

11. R&D Laboratories sponsored by industries at the Institute.

**Establishment of Industry-Institute Partnership /interaction Cell.**

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| **S.No** | **Name of Industry** | **Institute Coordinators** | **Industry Coordinators** |
| 1 | The Ramco Cements Limited | Dr.R. Thenmozhi, PCE  Dr.S.Chithra, Asso.PCE | Mr.Anil Kumar pillai  *General manager Technical service*  *The Ramco Cements Limited*  Mr.K. Vigneswar  *Deputy Manager Technical*  *The Ramco Cements Limited* |
| 2 | Co – CREATE | Dr. R. Thenmozhi  PCE & HOD  GCT, Coimbatore | Dr.A. Sudhakar  CEO – Dimensions  Coimbatore |
| 3 | Coimbatore Corporation  Smart city projects Evaluation | Dr.J. Jeyanthi, PCE  Dr.C.Meiaraj, PCE(CAS)  Dr.S.Murugan, As.PCE(CAS) | The Commissioner  Coimbatore Corporation |
| 4 | Coimbatore Corporation  Tirupur Corporation  Road Inspection & Third party Evaluation | Dr. R. Thenmozhi, PCE  Dr.J. Jeyanthi, PCE  Dr.S.P.Jayapriya PCE(CAS)  Dr.S.Chithra, Asso.PCE  Dr.R.Chithra, Asso.PCE  Dr.V.Satheeshkumar, Asso.PCE | The Commissioner  Coimbatore Corporation |

**Organizing Workshops, conferences and symposia with joint participation of the faculty and the industries.**

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| **S.No** | **Visiting Faculty/Industrialist Name** | **Delivered Lecture /**  **Course / Seminar** | **Date** | **Remarks** |
| 1 | Dr. S. Neelamani, Senior Research Scientist, Kuwait Institute for Scientific Research (KISR), Kuwait | Job opportunities in India and abroad | 16.9.2019 | Career guidance |
| 2 | Dr.A.Sudhakar,  Structural Consultant, Dimensions,Coimbatore& Visiting faculty of United Institute of Technology, Coimbatore | An insight to IS456:2000 and IS800:2007 | 12.8.2019 to 30.10.2019 | Technical lecture by Alumni  (Industrialist) |
| 3 | Dr.J.Sankar.  Building Valuer , Salem | Surveying with Total Station | 06.07.2020 to 10.07.2020 | Value added course by Industrialist |
| 4 | Dr.B.Saravankumar  Head of the Department (Structures)  Ramboll, Chennai | Analysis and Design using STAAD PRO, ETABS | 6.9.2021 to 1.12.2021 | Technical lecture by Alumni |
| 5 | Er. Karthikeyan  Karthikeyan Asso.  Chennai | Slope Stabilization using Soil Nailing | 20.04.2018 | Nat. Conference  Keynote speaker and Judge |
| 6 | Ramco Cements | Mix design- Principles and Field Practices | 30.09.2022 | Lecture series for Placement Training |
| 7 | Dr.S.Parivallal  Scientist, SERC, Chennai  (Alumni) | DC member for a PhD Scholar  Viva – voce examiner for PhD scholars  Ms. Subashree  Mr.Prakash | 21.07.2020 | Collaborative Research activities |
| 8 | Prof.K.V. Prasad  Dr.R. Venkatesak  Faculty from NICMAR, Hyderabad | Career advancement in construction, Infratsrucutre, Real Estate and Project sector(CRIP) | 28.12.2021 | Technical lecture |
| 9 | Dr.A.Ranganathan  Research Associates(Irrigation)  Irrigation Management Training Institute.  Tiruchirapalli | Conservation of Surface and Ground water | 22.03.2022 | World water day webinar |
| 10 | Er.Nalla Muthu Manickam  Retired Divisional Engineer  Southern Railway | Industry oriented seminar on Railway Track construction& maintenance | 03.10.2019 | Technical lecture  (Industrialist) |
| 11 | Er.S. Ramalingam,  Chartered Engineer,  AARVY Associates,  Salem | Turning Point  Career opportunity for Civil Engineers | 03.08.2020 to  07.08.2020 | Technical lecture by Alumni  (Industrialist) |
| 12 | Er.P.Baskaran,  Senior section engineer,  Southern railways,  Thiruchirapalli | Railway Signalling | 11.11.2020 | Technical lecture  by  Industrialist |
| 13 | Er.S.Sooraj,  Site engineer,  L&W Construction pvt.ltd,pune | Good Construction Practices | 06.03.2021 | Technical lecture  by  Industrialist |
| 14 | Er.A.Baskar,  Senior engineer,  Civil and Structural Design Department,  Technip Energies,  Chennai | Developing Industry ready engineers for Gas and Oil sectors | 30.10.2021 | Technical lecture  by  Industrialist |
| 15 | Mr.S.Prasanna Krishna,  Founder- Career Zone Counselling pvt.ltd.  Coimbatore. | Study Opportunities for Civil Engineers at International Universities | 19.08.2021 | Technical lecture  by  Industrialist |
| 16 | Er.Diwakar Velu,  Deputy Project Manager,  Land Transport Authority,  Singapore | Introduction and Overview on Mechanised Tunnelling for Metro Rail Projects and Opportunities Available. | 08.07.2019 | Technical lecture  by  Industrialist |
| 17 | Er.Ebenezer Samuel  Manager operations and senior consultant,  BIIS, Abu dhabi | Application of Internet of things in construction Industry in Gulf Countries | 17.12.2019 | Technical lecture  by  Industrialist |
| 18 | Dr.A.Sudhahar  Chief Consultant,  Dimensions,Coimbatore | Feasibility of Internet of Things in Indian Construction Field | 17.12.2019 | Technical lecture  by  Industrialist |
| 19 | Er.A.Banudevi, ME  M/s. D’Trend Engineering Consultant,  No:23,Brindavan Circle(North), Kuniyamuthur, Coimbatore-008 | Three days online Employability Enhancement Programme on “ Structural Analysis and Design of Structures” | 22.06.2020 to 24.06.2020 | Employability Enhancement Programme |
| 20 | Dr.N.Neelamegam  Retd.Scientist,SERC Chennai | Advances in concrete Composites | 07.09.2020 | Concrete Day Talk |
| 21 | Er.Renee Romolo  Structural Engineer,Newyork,USA | Scope for structural Engineers in USA | 07.09.2020 | Concrete Day Talk |
| 22 | Er.G.Palani  Technical Director, BEC pte,Ltd,Singapore | Structural Engineers practice in Singapore | 07.09.2020 | Concrete Day Talk |
| 23 | Er.Shakhivel palani  General manager  D-CAD, Newdelhi | Internal Hackathon | 10.03.22 | SIH Participation Team selection |

**Participation of Experts from Industry in Curriculum Development.**

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| **S.No** | **Visiting Faculty/Industrialist Name** | **Participation** | **Name of faculty at GCT and her role** | **Date** |
| 1 | Dr.A.Sudhakar,  Structural Consultant, Dimensions, Coimbatore & Visiting faculty of United Institute of Technology, Coimbatore | Board of Studies member | All Faculty members participated BoS meeting | 13.04.2018 |
| 2 | Er. Raghavendra  Structural Consultant  Pyramid associates  Coimbatore | Board of Studies member | All Faculty members participated BoS meeting | 01.3.2019 |
| 3 | Dr.Janarthanan, PCE  Curriculum Development Cell, NITTTR, Chennai | Webinar on CO – PO attainment | All Faculty members participated | 19.3.2022 |
| 4 | Dr.Janarthanan, PCE  Curriculum Development Cell, NITTTR, Chennai | Academic Council Meeting | Dr.R. Thenmozhi  Dr.C.Meiaraj  Dr.M.Kumar  participated | 10.3.2022 |
| 5 | Dr.Janarthanan, PCE  Curriculum Development Cell, NITTTR, Chennai | Discussion meeting to revise Vision and Mission of department | Dr.Thenmozhi, Dr. Meiaraj and Dr.Jeyapriya participated | 10.3.2022 |
| 6 | Dr.G.Swaminathan, Professor, NIT, Trichy | Online Webinar on New Education Policy: Regulation and Curricula Reforms | All Faculty members participated | 24.09.2021 |
| 7 | Dr.Janarthanan, PCE  Curriculum Development Cell, NITTTR, Chennai | Online webinar on Design and Implementation of Curriculum as per National  Education Policy 2020 | All Faculty members participated | 29.09.2021 & 01.10.2021 |
| 8 | Dr.T.Gnana Sambandan, Rtd. Professor, NITTTR, Chennai  (Alumni/Civil) | Online Webinar on Implementation of OBE using CDIO-Standards 3.0 Framework | All Faculty members participated | 17.02.2022. |
| 9 | Dr.S. Muneeshwaran, Senior Manager,  Vimtha Lab, Coimbatore. | Board of Studies member | Dr.J.Jeyanthi  Dr.S.Murugan  Dr.M.C.Ravathi  Dr.R.Bhuvaneswari  K.Rajeshkumar | 26.04.2022 |
| 10 | Dr. S.V Srinivasan  Senior Scientist,  Environmental Science and Engineering,  CSIR-Central Leather Research Institute  CLRI , Adayar, Chennai. | Programme Advisory Committee Member | Dr.J.Jeyanthi  Dr.S.Murugan  Dr.M.C.Ravathi  Dr.R.Bhuvaneswari  K.Rajeshkumar | 26.04.2022 |
| 11 | Er. V Swaminathan ME,  District Environmental Engineering,  TNPCB, Tiruppur (south)  12A, Pollachi By-pass Road  Palladam, Tiruppur. | Board of Studies member | Dr.J.Jeyanthi  Dr.S.Murugan  Dr.M.C.Ravathi  Dr.R.Bhuvaneswari  K.Rajeshkumar | 26.04.2022 |

**Visits of staff members to various industry**

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| **S.No** | **Name of the faculty** | **Name of Industry** | **Date of visit** |
| 1 | Dr. M.C. Ravathi  Dr. R. Bhuvaneswari  Dr. V. SatheesKumar | Parabikulam Aliyar Project  TWAD Board | 26.09.2018 |
| 2 | Prof.S.Makesh Kumar  Dr. S. Chithra | Parabikulam Aliyar Project  TWAD Board | 27.09.2018 |
| 3 | Dr.S.Murugan  Dr.R.Chithra | Parabikulam Aliyar Project  TWAD Board | 04.10.2018 |
| 4 | Dr.M.Kumar  Dr.M.Rama | Parabikulam Aliyar Project  TWAD Board | 08.10.2018 |
| 5 | Dr.M.Rama  Th. S.Makesh Kumar | Mettupalayam Railway Station  Southern railway | 13.09.2019 |
| 6 | Dr. C.Meiaraj  Tmt. C.Bharathi | Bhavanisagar Dam and other irrigation Canal system  TWAD Board | 18.09.2019 |
| 7 | Dr.M.Rama  Dr.S.Chithra | Bhavanisagar Dam and irrigation Canal structures  TWAD Board | 23.09.2019 |
| 8 | Dr.M.C Ravathi  Th.P.Andavar | Vellingadu Water treatment plant structures  TWAD Board | 25.09.2019 |
| 9 | Dr. R. Bhuvaneswari  Th.K.Rajeshkumar | Vellingadu Water treatment plant structures  TWAD Board | 27.09.2019 |
| 10 | Dr.M.Rama  Prof.S.Makesh Kumar | Ambarapalayam water treatment plant, TWAD, Pollachi | 26.04.2022 |
| 11 | Th. K.Rajesh Kumar  Dr.M.Kumar  Ms. Sivasakthi | Solaiaru Dam, Valparai | 13.05.2022 |
| 12 | Dr.S.P.Jeyapriya  Prof.K.Rekha  Dr. C.Meiaraj | Mass Construction site, Periyanaicken palayam, Tamilnadu housing Board | 18.05.2022 |
| 13 | Dr. V. SatheesKumar  Ms. Sivasakthi | Solaiaru Dam, Valparai | 30.05.2022 |
| 14 | Dr.M.Rama | Site visit to Mass Construction Periyanaicken palayam, TNHB | 07.06.2022 |
| 15 | Dr.M.Rama | Virtual Industrial visit to flyash brick plant | 10.10.2020 |

**Professional Consultancy by the Faculty to Industries.**

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| **Sl. No.** | **Name of the**  **industry** | **Name of faculty at GCT and her role** | **Name of work** |
| 1 | PSG Medical college Hospital | Dr.R. Thenmozhi  Dr.S. Chithra  Dr.R.Chithra  Dr.G.Dhamodhara kannan | Stability certification for G+6 storeyed hospital building |
| 2 | St. Xavier Medical college Hospital  Hosur | Dr.R. Thenmozhi  Dr.S. Sathyapriya  Dr.R.Chithra  Dr.G.Dhamodhara kannan | Stability certification for G+9 storeyed Medical college and hospital building |
| 3 | KGiSL Technologies and Infrastructures Pvt. Ltd  Saravanambatti  Coimbatore | Dr.R. Thenmozhi  Dr.R.Chithra  Dr.G.Dhamodhara kannan | Issue of structural safety certificate for the Residential Project in Keeranatham Village, Annur |
| 4 | KGiSL Trust  Saravanambatti  Coimbatore | Dr.R. Thenmozhi  Dr.G.Dhamodhara kannan Dr.V.Satheeskumar | Issue of structural safety certificate for the Bank building and KGiSL Ins. Of Tech., College building and Hostels |
| 5 | Er. S. Karikalan.,  Executive Engineer &amp;  Admn. Officer,  Tamil Nadu Housing Board,  Erode Housing Unit, Erode | Dr.R. Thenmozhi | Structural Damage Assessment of Dilapidated 54 Nos. of TNGRHS Flats at  Moolapalayam, Erode  (54 Flats) |
| 6 | Er. S. Karikalan.,  Executive Engineer &amp;Tamil Nadu Housing Board,  Erode Housing Unit, Erode | Dr.R. Thenmozhi | Structural Damage Assessment of  Dilapidated 18 Nos. of TNGRHSFlats at Sampath Nagar, Erode. |
| 7 | Er. R.Edwin Sindarsingh,  Executive Engineer &amp;Tamil Nadu Housing Board  Coimbatore Housing Unit, Coimbatore. | Dr.R. Thenmozhi | Structural Damage Assessment of  Dilapidated TNGRHS Flats in Ooty.  48 TNGRHS at Gandhi Nagar and  80 TNGRHS at Church Hill(2 schemes) |
| 8 | Er. R.Edwin Sindarsingh,  Executive Engineer &amp; Adm. Officer,  Tamil Nadu Housing Board  Coimbatore Housing Unit,  Coimbatore. | Dr.R. Thenmozhi | Structural Damage Assessment of  Dilapidated TNGRHS Flats at Tirupur.  42 TNGRHS at Murugampalayam and  36 TNGRHS at Thottipalayam  (2 schemes) |
| 9 | All India Radio | Dr.R. Thenmozhi  Dr.V.Satheeskumar | Field investigation |
| 10 | Er. A.Karthikeyan  Karthikeyan & Associates,  Structural & Geotech Consultants | Dr.R. Thenmozhi | Structural soundness & stability report for Sellandi Amman temple at Manalur village- Tiruppur dt |
| 11 | Er.R. Anbuselvan,M.E  Asst.Executive Engineer,TWAD,  Major Project sub Division,  Coimbatore | Dr.R. Thenmozhi  Dr.C.Bharathi  Prof.S.Makeshkumar  Dr.K. Rekha | Vetting of structural Design |
| 12 | M/sShriprop construction pvt.ltd  Ramnagar Coimbatore-641009 | Dr.R. Thenmozhi  Dr.J.Jeyanthi  Dr.S.Murugan | Sewage Treatment plant design |
| 13 | KGiSL Trust  KGiSl Campus  Saravanampatti  Coimbatore | Dr.R. Thenmozhi  Dr.J.Jeyanthi  Dr.S.Murugan | Adequacy checking of sewage treatment plant |
| 14 | M/s.Pairon pyrolysis, perundurai | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Air pollution control measures report |
| 15 | M/s. Kiscol, palladam | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Air pollution control measures report |
| 16 | M/s.Town city,KG group, cbe | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Adequacy checking of sewage treatment plant |
| 17 | M/s. PSG Hospital | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Adequacy checking of sewage treatment plant |
| 18 | M/s KSD, ECO Auro Pyrolysis, Udumalai | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Environmental carrying capacity study |
| 19 | M/s. Tmt. R.Saraswathi,  Commissioner,  Udagamandalam Municipality | Dr.J.Jeyanthi  Dr.S.Murugan  Dr.R.Bhuvaneswari | Surge pressure calculation |
| 20 | Sri Gowri Steel, Thirupur | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | STP Adequacy & Air Pollution Control Measures |
| 21 | Sakthi Auto Auxiliary Pvt. Ltd.,CBE | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Air pollution control Measures |
| 22 | JS Autocast Foundary, Perundurai. | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | APC Measures & Adequacy APC |
| 23 | Tamilnadu Slum Clearance Board, CBE | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Adequacy of checking storm water |
| 24 | Duinkop Enterprises(P) Ltd., CBE | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | Water Pollution study |
| 25 | Velmurugan Enterprises P. Ltd.,CBE | Dr.J.Jeyanthi  Dr.S.Murugan  K Rajeshkumar | STP Adequacy checking |
| 26 | The Commissioner,  Gudalur municipality  Nilgiris district | Dr.R. Thenmozhi  Dr.S.P Jayapriya | Quality testing for improvements to paver block roads, retaining wall construction |
| 27 | K. Vimala,  Executive officer,  Arulmigu Subraniyaswamy Thirukovil, Maruthamalai, Coimbatore. | Dr.R. Thenmozhi  Dr.V.Satheeskumar | Soil investigation for the proposed construction of resting place and Yaghasalai. |
| 28 | A.L.C.Kumar. B.E.,  Executive Engineer,  Coimbatore division,  TNSCB,397A,  North housing unit, Selvapuram,Coimabtore-641026 | Dr.R. Thenmozhi  Dr.S.Sathyapriya | TNSCB- Coimbatore division- Construction of 516nos of tenements (G+2) floor at S.F.No.806/2E4,806/2E5, 806/2G, Alandurai Village, Kalaimangalam, Coimbatore. |
| 29 | R.Muniyasamy, B.E.,  Executive Engineer,  Coimbatore division,  TNSCB,397A,  North housing unit, Selvapuram, Coimabtore-641026. | Dr.R. Thenmozhi  Dr.S.P. Jayapriya | Borehole soil investigation for the proposed - Construction of 516nos of tenements (G+2) floor at S.F.No.806/2E4,806/2E5, 806/2G, Alandurai Village, Kalaimangalam, Coimbatore. |
| 30 | Er.S.Venkatesan, B.E.,MBA,  Executive Engineer,  TNSCB,  Tiruppur division,  Coimbatore-26. | Dr.R. Thenmozhi  Dr.V.Satheeskumar | Borehole soil investigation for the proposed - Construction of 480 Nos (G+2) tenements, at Ikkaraiththaipalli, Sathyamangalam, Erode District. |
| 31 | S.Venkatesan, B.E.,MBA,  Executive Engineer,  TNSCB,  Tiruppur division,  Coimbatore-26. | Dr.R. Thenmozhi  Dr.S.Sathyapriya | Borehole soil investigation for the proposed - Construction mutli storiedtenements, at Ikkaraiththaipalli, Sathyamangalam, Erode District. |
| 32 | Er. R. Ravikumar, B.E., Executive Engineer,  TNSCB,  Salem division,  Salem. | Dr.R. Thenmozhi  Dr.S.P.Jayapriya | Soil investigation for the proposed Construction of Mutlistoried (G+3) tenements buildings 496 Nos at Selathampathy in Salem district. |
| 33 | R.Muniyasamy, B.E.,  Executive Engineer,  TNSCB  Coimbatore division,  397A, North housing unit, Selvapuram, Coimabtore-641026. | Dr.R. Thenmozhi  Dr.S.Sathyapriya | Soil investigation report for Tamilnadu Slum Clearance Board, Coimabtore Division - Construction of 180 Nos (G+1) tenements at S.F.No:977/1, with Type design: HFA 18,18A/2017 at Allanchi, Kethi village in the Nilgiris district |
| 34 | R. Ravikumar, B.E., Executive Engineer,  TNSCB,  Salem division,  Salem-7. | Dr.R. Thenmozhi  Dr.V.Satheeskumar | Soil investigation for the proposed construction of 352 Nos of tenements (G+3) at S.F 234/2, at Edapadi Municipality in Salem district. |
| 35 | Thiru. M.Thangaraju, M.Tech.,  Assistant Divisional Engineer,  National Highways,  Coimbatore. | Dr.R. Thenmozhi  Dr.S.P Jayapriya | Proposed construction of Flyover at GN mills junction from 352/320-352/990 of NH67 for Testing of rock and soil sample and preparation of Borehole oil Investigation report. |
| 36 | Er. S.Revathi B.E.,  Assistant Engineer,  TWAD Board,  Sewerage Sub-Division,  Perundurai | Dr.R. Thenmozhi  Dr.S.Sathyapriya | TWAD Board - Sewerage Sub-Division,  Perundurai – UGSS to Perundurai Town Panchayat in Erode district - Construction of Sewage Treatment Plant - Safe Bearing Capacity of the soil at STP site tested. |
| 37 | Er. S.Sivakumar B.E.,  Assistant Executive Engineer,  TWAD Board,  Sewerage Sub-Division,  Perundurai | Dr.R. Thenmozhi  Dr.S.P Jayapriya | Soil investigation – TWAD board - Proposed Construction of Sewage treatment plant of capacity 3.14 MLD at Panikampalayam, Perundurai Town Panchayat in Erode District. |

**Joint Research Programmes and field studies by Faculty and People from Industries.**

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| **Sl. NO.** | **Name of the Engineer from industry** | **Role of the industrialist** | **Name of faculty at GCT** | **Title of research** |
| 1 | S. Muthuramalingham,  Asst. Ex. Engineer  TAHDCO, Chennai | Part Time Ph.D. Research scholar | Dr.R. Thenmozhi  (Ph.D Supervisor) | Strength Characteristics of Prestressed Flyash based Geopolymer concrete pole. |
| 2 | J. Umasankar,  Design Engineer,  HCC, Mumbai | Part Time Ph.D. Research scholar | Dr.R. Thenmozhi  (Ph.D Supervisor) | Techniques and design methods for improved layout of tunnel linings in various geological conditions. |
| 3 | B. Saravanakumar,  Sr. Design Engineer  L & T Ramboll, Chennai | Part Time Ph.D. Research scholar | Dr.R. Thenmozhi  (Ph.D Supervisor)  Viva : 07.05.2019 | Studies on shear connectors in steel concrete composite beams. |
| 4 | Dr.L.S. Jeyagopal  Managing Director  Mithran Structures  Coimbatore | DC member for the scholar  S. Janani | Dr.R. Thenmozhi  (Ph.D Supervisor of Ms.S. Janani) | Experimental behavior of Cold formed steel sigma Purlins. |
| 5 | Armour Steel  Chennai | Experiments on steel sigma purlins were done in industry by Ms. Janani | Dr.R. Thenmozhi  (Ph.D Supervisor of Ms.S. Janani) | Experimental behavior of Cold formed steel sigma Purlins. |
| 6 | Er.B. Kamaraj  Structural consultant  STRUCT well  Coimbatore | Research candidate at CIT, CBE | Dr.R. Thenmozhi  (D.C. member) | Experimental investigation on Prestressed steel beams |
| 7 | Dr.S. Parivallal  Sr. Scientist, SERC  Chennai | DC member for K.Rekha, APCE | Dr.R. Thenmozhi  (Ph.D Supervisor) | Flexural behavior Of Hybrid Fibre Reinforced Bagasse ash Concrete |
| 8 | Dr.S. Parivallal  Sr. Scientist, SERC  Chennai | Ph.D. viva voce examiner for  Mr. Prakash, PT PhD scholar | Dr.R. Thenmozhi  (Ph.D Supervisor) | Behaviour of Fibre Reinforced Coconut shell concrete |
| 9 | Dr.S. Parivallal  Sr. Scientist, SERC  Chennai | Ph.D. viva voce examiner for Ms. Subashree, PT PhD scholar | Dr.R. Thenmozhi  (Ph.D Supervisor) | Bending and Impact strength Behaviour of Crumb Rubber concrete |
| 10 | Dr. J. Prabhakar  Sr. Scientist, SERC  Chennai | Ph.D. viva voce examiner for Ms. Divyah, PT PhD scholar | Dr.R. Thenmozhi  (Ph.D Supervisor) | Steel concrete composite coloumn made of Light weight fly ash aggregate concrete |
| 11 | Dr.S. Parivallal  Sr. Scientist, SERC  Chennai | Ph.D. viva voce examiner for Mr. Ranjith babu, PT PhD scholar | Dr.R. Thenmozhi  (Ph.D Supervisor) | Light weight aggregate concrete |
| 12 | Dr. J. Prabhakar  Sr. Scientist, SERC  Chennai | DC member for PhD scholar of Dr.Rajkmar, GCE Dharmapuri | Dr.R. Thenmozhi  Acted as other DC member | ---- |
| 13 | Dr.S. Parivallal  Sr. Scientist, SERC  Chennai | Ph.D. viva voce examiner for Ms. M.C.Ravathi, PT PhD scholar | Dr.R.Chithra  (Ph.D Supervisor) | Performance Assessment and Footprint analysis of Recycled Fine Aggregate Self-Curing Concrete |

**Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest.**

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| **S.No** | **Faculty** | **Programme** | **Collaborating Industry** | **Date** |
| 1 | Dr.P.Thamarai, Principal  Dr.R. Thenmozhi, PCE  Dr. J. Jeyanthi, PCE | National conference on  R & D and Innovation | Confederation of Indian Industry at Jaipur, Rajasthan | 27.11.2018 |
| 2 | Dr.S.Chithra  Dr.R.Chithra  Mr.S.Makeshkumar  Mr.P.Andavar | Concrete Mix Design and Acceptance criteria of Concrete | National council for Cement and Building Materials, Ballabgarh, Haryana | 31.07.2019 to  02.08.2019 |
| 3 | Dr.G.Dhamodhara Kannan  Mr.S.Makeshkumar  Dr.V.Satheeskumar | A Perspective info Indian Codes of Practices for Reinforced & Pre stressed concrete structures | SERC-Chennai | 18.09.2019 to 20.09.2019 |
| 4 | Mr.K.Rajeshkumar | Advance Instrumental Analytical techniques and preventive maintenance – Hands on training | CSIR- NEERI, Nagpur | 18.09.2019 to 20.09.2019 |
| 5 | Dr.J.Jeyanthi  Dr.S.Murugan  Dr.M.C Ravathi  Dr.R.Bhuvaneswari  Mr.K.Rajeshkumar | Research Laboratory visit | CSIR- NEERI, Nagpur | 17.02.2020 to 18.02.2020 |
| 6 | Dr.J.Jeyanthi  Dr.S.Murugan  Mr.K.Rajeshkumar | Research Lab and incubation centre visit | IIIT- Hyderabad | 15.02.2021 |
| 7 | Dr.R. Thenmozhi  Dr.G.Dhamodhara kannan  Dr.V.Satheeskumar | Workshop on Structural Audit and Non-Destructive Testing | Dhargalkar Technoesis (I) Pvt. Ltd. Mumbai, India | 30.06.2018 |
| 8 | Dr. R. Thenmozhi | Training Programme on Energy Efficiency | CII – Godrej Green Business Centre in Pune | 27th to 28th February 2020 |
| 9 | Dr. R. Thenmozhi | Webminar on ‘Learning in Lockdown’ in Concrete Technology: Protection of Concrete Structures | The Institute of Concrete Technology | June 2020 |
| 10 | Dr. R. Thenmozhi  Dr.S.Chithra  Mr.S.Makeshkumar  Mr.P.Andavar | Online Art of Living`s Wellness program | Art of Living  Coimbatore | 18th to 24th October 2020. |
| 11 | Dr. R. Thenmozhi | Online course on Sustainable Engineering Series | ACCE(I), Bangalore Chapter | 26th Sep 2020 to 28th Nov 2020 |
| 12 | Dr.G.Dhamodhara kannan | A Perspective into Indian codes of Practice for Reinforced and Pre-stressed Concrete Structures | CSIR – SERC, Chennai | 18.10.2019 to 20.10.2019 |

**Visits of industry executives and practicing engineers to the Institute for seeing research work and laboratories, discussions and delivering lectures on Industrial practices, trends and experiences.**

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| **S.No** | **Name of Faculty** | **Topic of discussion/ lecture** | **Date** | **Research Laboratories / Industry** |
| 1 | Dr.J.Jeyanthi  Dr.R.Bhuvaneswari  Dr.M.C Ravathi  Mr.K.Rajeshkumar | Wastewater treatment processes | 23.02.2021 to 26.02.2021 | CSIR- NEERI, Nagpur |
| 2 | Dr.J.Jeyanthi  Dr.S.Murugan  Dr.M.C Ravathi  Dr.R.Bhuvaneswari  Mr.K.Rajeshkumar | Bio-remediation and Bio process optimization for organic waste | 16.02.2021 | CSIR- NEERI, Nagpur |
| 3 | Dr.J.Jeyanthi  Dr.M.C Ravathi  Mr.K.Rajeshkumar | Air pollution Management in urban areas | 02.02.2021 to 04.02.2021 | CSIR- NEERI, Nagpur |
| 4 | Dr.R.Chithra  Dr.M.Rama  Dr.M.C Ravathi  Mr.G.Dhamodhara Kannan | Advanced training programme on Green Homes | 23.03.2021 to 25.03.2021 | IGBC, CII |
| 5 | Dr.R.Chithra  Dr.M.C Ravathi  Dr.R.Bhuvaneswari  Mr.K.Rajeshkumar | Fundamentals of Scanning Electron Microscope and its Applications | 28.05.2020 | ZEISS India |
| 6 | Dr.S.P.Jeyapriya  Dr.S.Sathyapriya  Dr.S.Chithra  Dr.R.Chithra  Dr.K.Rekh  Dr.M.Rama  Dr.G.Dhamodhara Kannan  Dr.V.Satheeskumar  Dr.R.Bhuvaneshwari  Dr.M.C Ravathi  Mr.S.Makeshkumar  Mr.P.Andavar  Mr.C.Bharathi  Mr.K.Rajeshkumar | Telecom Tower Construction | 08.06.2020 to 26.06.2020 | BSNL, Coimbatore |
| 7 | Dr.M.Rama | Project management | 30.07.2020 to 31.07 2020 | Edifice |
| 8 | Dr.M.Rama | Virtual technical tour of Rajashree cement works | 19.06.2021 | Ultra Tech Cement Ltd. |
| 9 | Dr.R.Chithra  Dr.S.Chithra  Mr.S.Makeshkumar  Mr.P.Andavar | Concrete Mix Design and Acceptance Criteria of Concrete | 31.07.2019 to  02.08.2019 | National council for Cement and Building Materials |
| 10 | Dr.S.Sathyapriya | Soil Investigations and Ground Improvement Techniques in Infrastructure Development | 04.09.2019 to  06.09.2019 | Engineering staff college of India |
|  | Dr.S.Sathyapriya | Analysis and design of RCC Buildings | 16.05.2019 to 29.05.2019 | Shanavaz & Associates, Coimbatore |
| 11 | Dr.S.Murugan  Dr.M.Kumar  Mr.K.Rajeshkumar | Remote sensing and GIS Technology and Application for university teachers and Government officials | 13.06.2020 to 01.07.2020 | ISRO |
| 12 | Mr.K.Rajeshkumar | Air Quality Monitoring for key air pollution Parameters | 16.12.2020 to 18.12.2020 | CSIR- NEERI, Nagpur |
| 13 | Mr.K.Rajeshkumar | Advance Instrumental Analytical techniques and preventive maintenance – Hands on training | 18.09.2019 to 20.09.2019 | CSIR- NEERI, Nagpur |
| 14 | Mr.K.Rajeshkumar | Exhibition and industrial academia meet on Waste Management at PSG College | 18.12.2019 to 19.12.2019 | PSG Institute of Management |
| 15 | Mr.K.Rajeshkumar | Summer faculty Research Fellowship Program – 2021 (Online) | 22.05.2021 to 24.07.2021 | IIT - Delhi |
| 16 | Mr.P.Andavar | Capacity Building Program | 12.09.2022 &16.09.2022 | Government college of engineering Srirangam, Trichy |
| 17 | Dr.M.Kumar | Online WGCapD Webinar series on”Remote sensing in crop monitoring and Assessment” | 19.05.2020 to 09.06.2020 | ISRO |
| 18 | Dr.S.Chithra | Analysis,Design and Construction activities at various stages of residential and apartment buildings | 30.04.2019 to 14.05.2019 | M/s. Arun Associates , Coimbatore |

**Memoranda of Understanding between the Institute and industries**

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| S.No | Name of Industry | Address | Duration | Status | Contacts |
| 1 | DCAD Engineers and Consultants, Coimbatore | Civil and Structural Engineering Consultancy Firm, 7/53, Nehru Street, Ramnagar, Coimbatore - 641009 | 24.02.2021 -23.02.2024 (3 Years) | Active | Mr. P. Shakivel, M.Tech, Managing Director, shakiiit31@gmail.com, Mobile No: 9597218561 |
| 2 | Irrigation Management Training Institute (IMTI), Trichy | Thuvakudi, Trichy. | 17.12.2020 -16.12.2025 (5 Years) | Active | Dr. A. Ranganathan, Research Associate, drranganathanimti2021@gmail.com |
| 3 | M/s. INFINUSTECH, Structural Engineering Consultancy Firm, Coimbatore | 2, Siva Nagar, (Aiswarya Nagar), P N Pudur, Coimbatore – 641041. | 14.09.2020 -13.09.2023 (3 Years) | Active | Er. J. Premkumar, Principal Consultant, Mobile No. 9843333324, Email: jprem224@outlook.com |
| 4 | M/s. S G Structural Engineers, Civil and Structural Engineering Firm, Coimbatore | No. 53, M. A. Palanisamy Street, Saibaba Colony, K K Pudhur Post, Coimbatore - 641038 | 14.09.2020 -13.09.2023 (3 Years) | Active | Dr. G. S. Venkatasubramani, Managing Director, Mobile No. 9842212109, Email: profgsv1968@gmail.com |
| 5 | Lincoln University College, Malaysia | Wisma Lincoln, No. 12 – 18, Jalan SS 6/12, 47301 Petaling Jaya, Selangor Darul Ehsan, Malaysia. | 03.12.2019 -02.12.2022 (3Years) | Active | Dr. Amiya Bhaumik, President, No. +603-7806 3478, Email: infor@lincoln.edu. |
| 6 | Capital Engineering Consultancy, Sharjah | Sharjah- UAE | 13.08.2019 -12.08.2024 (5 Years) | Active | Mr. Balaskandan Raghunathan, CEO,  +971505583615/+918870960830,  bala@capitalengg.com |
| 7 | M/s. Karthikeyan Associates, Chennai | M/s. Karthikeyan Associates, Arumbakkam, Chennai-600106 | 18.02.2022 -17.02.2027 (5 Years) | Active | Er. A. Karthikeyan, Consultant, karthikeyanassociates@gmail.com, 9884085840 |
| 8 | M/s. Ramco Cements Limited, Chennai | M/s. Ramco Cements Limited, 98A, Dr Radhakrishnan Road, Technical service,Chennai-600004. | 01.07.2022-30.06.2027 (5 Years) | Active | M/s. Ramco Cements Limited, 98A, Dr Radhakrishnan Road, Technical service,Chennai-600004. |
| 9 | M/s. Land Coordinates Technology, Chennai. | M/s. Land Coordinates Technology, 6, Parasakthi Nagar, 1st Main Road, Camp Rd, Selaiyur, Chennai-600073 | 5 years  Nov 22 to Nov 27. | Active | Er A. Selvam, General Manager. Email id: lctsurveyins@gmail.com 9841804241 |

**B.E. and M.E. projects/dissertation work in industries under joint guidance of the faculty and experts from industry.**

**M.E. Projects**

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| **Sl. No.** | **Period** | **Title of thesis/Project** | **Name of guide at GCT** | **Name of student** | **Name of**  **Co-guide in industry** |
| 1 | 2018-19 | Integrity Assessment on Reinforced Concrete Beam using wave propogation and Impedance study | Dr.M.Rama | M.Muthuraja | Dr.Saparshi sasmal,  Principal Scientist |
| 2 | 2018 | Failure Analysis of Transmission Line Towers | Dr.R.Chithra | R.Shivaranjini | Dr.K. Natarajan  Director  4A Design and Engineering Pvt.Ltd |
| 3 | 2020 | Study on Torsional Irregular structures and seismic Assessment using Push-Over Analysis | Dr.S. Chithra | Mohammed Hassain B | Capital Engineering Consultancy, Sharjah |
| 4 | 2020 | Enhanced Corrosion Resistance of steel Rebars with Nanomaterial incorporated fly ash based Cementitious coating | Dr.G.Dhamodhara Kannan | Divya Rachel Rooby | Dr.Rani P. George  IGCAR, Kalpakkam |
| 5 | 2021-22 | Enhanced Bio Hydrogen and Bio methane production from raw to wet blue | Dr.S.Murugan | T.Revathi | Dr.P.Shanmugam,  Chief Scientist and Head of the Department  CLRI-Chennai |
| 6 | 2021-22 | Bio Hydrogen and Bio methane production from tannery sludge | Dr.S.Murugan | S.S.Koushikan | Dr.P.Shanmugam,  Chief Scientist and Head of the Department  CLRI-Chennai |

**B.E. Projects**

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| **Sl. No.** | **Period** | **Title of thesis/Project** | **Name of guide at GCT** | **Name of student** | **Name of**  **Co-guide in industry** |
| 1 | Jan 23 – May 23 | Circular Economy | Dr. R. Thenmozhi | Pavithran  III yr B.E | Colorado University  Canada |

**List of ACCE - Coimbatore Centre Members to act as an additional supervisor for the UG projects**

|  |  |  |
| --- | --- | --- |
| S.No | **Name of the Guide** | **Name of the co – Guide from ACCE** |
| 1 | Dr. R. Thenmozhi | Er.Premkumar.J |
| 2 | Dr. J. Jeyanthi | Er.Muruganantham.R |
| 3 | Dr. S. P. Jeyapriya | Er.Thilak Ranjith |
| 4 | Dr. C. Meiaraj | Er.Jegadeesh Kannan |
| 5 | Dr. S. Murugan | Er.Balaji |
| 6 | Dr. S. Sathyapriya | Er.Vignesh |
| 7 | Dr. S. Chithra | Er.Prabhavathy |
| 8 | Dr.R. Chithra | Er.Kavitha |
| 9 | Tmt. K. Rekha | Dr. A. Sudhahar |
| 10 | Dr.G. Dhamodharakannan | Dr.K.Sridevi |
| 11 | Dr. M. Rama | Er.Raggul |
| 12 | Dr. M. Kumar | Er.Gowtham.N |

**Practicing engineers registered/completed part-time Ph.D Programme at GCT Coimbatore**

1. **S. MUTHURAMALINGHAM,**

Thesis**:** Strength Characteristics of Prestressed Flyash based Geopolymer concrete pole.

**Asst. Excutive Engineer, TNEB, Chennai**

Date of Oral Exam : 09.10.2017

1. **J. UMASANKAR,**

Thesis**:** Techniques and design methods for improved layout of tunnel linings in various geological conditions.

**Sr. Design Engineer, HCC, Mumbai**

Date of Oral Exam : 22.12.2017

1. **B. SARAVANAKUMAR**,

Thesis : Studies on shear connectors in steel concrete composite beams.

**Sr. Design Engineer, L & T Ramboll, Chennai**

Date of Oral Exam : May 2019

Professorial Chairs sponsored by industries at the Institute.

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| **S.No** | **Visiting Faculty/Industrialist Name** | Member as | **Date** | **Remarks** |
| 1 | Er. Karthikeyan  Karthikeyan Asso.  Chennai | Keynote speaker  and Judge | 20.04.2018 | Nat. Conference on Advancements in Geotechnical Engg |

**R&D Laboratories sponsored by industries at the Institute.**

**Construction Materials Development Laboratory**

(Supported by Dimensions Coimbatore)

Department of Civil Engineering established industry institute interaction by arranging guest lectures, workshops, skill development programs, placement assistance and project-guidance. Internships and major and mini projects assistance provided through industry institute interaction. The department established industry collaborations for getting assistance in placements as well as research activities for students and faculty. The placement cell takes the students to the job fairs and keeps in touch with the passed out students to get help from campus drives. Department has MOUs with many industries, which provide industrial training programs and internships.

Various activities are done with industries to emphasize on

* Internship
* Project Work for Students
* Industrial Visits
* Talks in emerging areas/seminars/workshops
* Faculty Development Program
* Research

This Laboratory carries out industrial cement and concrete research to develop new materials and products to improve existing manufacturing technology in a cost effective way. For the purpose of creating new businesses that contribute to solving societal issues, including those in the Special Development Groups, the Construction Materials Development Laboratory conducts wide-ranging research and development of new, high-performance materials in the important fields of Building Products reducing Environmental Impact.

Specifically, the laboratory is developing blocks used for flooring that are expected to find uses in various industrial floors, Petrol bunks, Parking areas etc. The laboratory also conducts exploratory research for new materials by utilizing open innovation.

**Executive Summary**

* CoCREATE is a joint effort by an Industry partner and Academic Institute to develop industry ready graduates by simulating an in-campus office at the institute.
* The institute and industry partner will complement each other through joint research and development, reciprocal training , technology support, enhancement and exchange.
* The collaboration will lead to better student orientation towards industry requirements, implementation and commercialisation new technologies and products , Joint patenting and publications

**Executive Team**

|  |  |
| --- | --- |
| **From Dimensions, Coimbatore** | **From GCT Coimbatore** |
| **Dr. A. Sudhakar, CEO**  **Dr. K. Sridevi, MD**  **Er. Ashraf, Design Engineer**  **Er. Pechiappan, Design Engineer** | **Dr. R. Thenmozhi, PCE & HOD**  **Dr. S. Chithra, APCE**  **Dr. M. C. Revathy, APCE**  **Thiru. Nirmal, APCE** |

**Present Infra Available at GCT**

Available :

* + - Testing facilities for various building materials
    - Research Facilities in various domains

Real Models of Structural and Non structural components

* + - 17 Core Laboratories to Civil Engg
    - CAD lab with software
    - Seminar Hall/Auditorium
    - Library

**Present Infra offered by Dimensions, Coimbatore**

The Manufacturing plant for making Flyash bricks is:

Tech New Building Products, ACC Green Building Centre

ACC Quarry Colony, Madukkarai, Coimbatore