

VISION of the Institute

- ◆ To excel in providing quality education at undergraduate and graduate levels.
- ◆ To encourage research and innovation.
- ◆ To provide infrastructure and facilities to meet the latest technological needs.
- ◆ To establish Centres of Excellence through active interaction with industry.
- ◆ To nurture students towards holistic development with human values and ethics.

To be a State of the Art Institution of Engineering in pursuit of excellence, in the service of society.

MISSION of the Institute



DEPARTMENT OF CIVIL ENGINEERING

Vision :

To be a Centre for quality education and research in the field of civil Engineering

Mission :

- To provide a well-balanced curriculum with practical exposure to meet the programme educational objectives and outcomes.
- To enhance the competence of faculty through continuous teaching learning process.
- To provide state of art laboratories equipped with the modern hardware and software.
- To encourage technical skills of non-teaching staff.
- To provide research opportunities for faculty and students.
- To create employability skills in students.
- To inculcate in students the importance of social responsibilities.

ABOUT DEPARTMENT

- Civil Engineering Department was established in the academic year 2011-2012 with an intake of 60 for B.Tech. and has been increased to 120 from the academic year 2013-14.
- Department also offers M.Tech. Programme in Structural Engineering with an intake of 24 from the year 2014-2015.
- Department has 01 Emeritus Professor, 07 Professors, 04 Associate Professors and 24 Assistant Professors.
- Dr. K.Rama Sastri, the former Professor, Registrar & Rector of Jawaharlal Nehru Technological University, Hyderabad, is the Emeritus Professor of the Civil Engineering Department and also the Director of CVR College of Engineering.
- Dr. M.V. Seshagiri Rao, the former Professor of Jawaharlal Nehru Technological University, Hyderabad, is the Professor of Civil Engineering Department and Dean - Planning & Coordination.
- Dr. N.Narayana, the former Joint Director (Principal Scientist) of National Council of Cement and Building Materials, Hyderabad, is the Professor of the Civil Engineering Department.

- Dr. N. Muralikrishna, the former Professor of Osmania University, Hyderabad, is the Professor of Civil Engineering Department.
- Dr. T. Muralidhara Rao, the former Professor and Principal of JNTU affiliated Engineering College, is the Professor and Head of the Department.
- Dr. B. Naga Malleswara Rao, the former Professor and Vice-Principal of JNTU affiliated Engineering College, is the Professor of Civil Engineering Department, NBA coordinator & Associate Dean (Approvals & Accreditations)
- Dr. Sasank Sekhar Hota, former Professor of Biju Patnaik University, is the Professor in Civil Engineering Department. His area of specialization is Structural Engineering.
- Dr. K. Madhusudan Reddy, Former Professor & Head of the Civil Department in JNTU affiliated Engineering College, is the Professor in Civil Engineering Department. His area of Specialization is Geo Technical Engineering.
- Dr. Sadguna Nuli, former Associate Professor of Deemed Univeristy, Chennai, is the Associate Professor of Civil Engineering Department. His area of specialization is Transportation Engineering.
- All the teaching faculty of the department are post-graduates with first class in UG & PG degrees.
- Department has well equipped laboratories which have been established at a cost of around Rs.1.5 Crore.
- Department also undertakes testing of Soil, Cement, Concrete, Highway Materials, Bricks, Wood, Steel, Water and Wastewater Analysis, Consultancy works and R&D works.

MILE STONES

- 2011-12 Intake of 60 students under regular admission.
- 2012-13 Survey lab and Engineering Geology labs were established.
- 2013-14 Civil Engineering Association was formed to conduct co-curricular activities for the students.
- 2013-14 Intake admission increased from 60 to 120 students.
- 2013-14 Geotechnical Engineering lab was established.
- 2014-15 Cement & Concrete lab, Environmental Engineering labs were established.
- 2014-15 First batch of Civil Engineering Students graduated.
- 2014-15 Structural Engineering lab was established.
- 2014-15 M.Tech. programme in Structural Engineering was started with an intake of 24.
- 2016-17 Advanced Concrete Technology Lab was established
- 2017-18 Research Lab was established with 100T loading frame(automated)



STUDENT INTAKE YEAR WISE

YEAR	Intake - B.Tech	Intake- M.Tech
2011-12	60	---
2012-13	60	---
2013-14	120	---
2014-15	120	24
2015-16	120	24
2016-17	120	24
2017-18	120	24

TEACHING STAFF, QUALIFICATION, DESIGNATION WITH SPECIALIZATION

S. No.	Name of the Faculty	Highest Qualification	University	Designation	Specialization
1	Dr. K. Rama Sastri	Ph.D.	IITM	Director & Emeritus Professor	Geotechnical Engineering
2	Dr. M.V. Seshagiri Rao	Ph.D.	JNTU-H	Professor & Dean – Planning and Coordination	Structural Engineering
3	Dr. N Murali Krishna	Ph.D.	NITW	Professor	Structural Engineering
4	Dr. N. Narayana	Ph.D.	OU	Professor	Geology
5	Dr. T. Muralidhara Rao	Ph.D.	NITW	Professor & Head of the Department	Structural Engineering
6	Dr. B. Naga Malleswara Rao	Ph.D.	NITW	Professor, Associate Dean (Approvals & Accreditations)	Water Resources Engineering
7	Dr. Sasank Sekhar Hota	Ph.D.	Jadhavpur University	Professor	Structural Engineering
8	Dr. K. Madhusudan Reddy	Ph.D.	IIT Delhi	Professor	Geotechnical Engineering
9	Dr. Sadguna Nuli	Ph.D.	IIT-Bombay	Associate Professor	Transportation Engineering
10	Mr. M.R Rajagopal	M.E, PMP	BITS - PILANI	Associate Professor	Civil Engineering
11	Mr. A. Vamshi Chaithanya	M.S.	Florida International University, U.S.A.	Associate Professor	Transportation Engineering
12	Mr. Yashwanth Pamu	M.E.	OU	Associate Professor	Construction Engineering Management

S. No.	Name of the Faculty	Highest Qualification	University	Designation	Specialization
13	Mr. N. Ramanjaneyulu	M.Tech.	JNTUH	Assistant Professor	Structural Engineering
14	Mr. S. Praveen	M.Tech.	IIT-Roorkee	Assistant Professor	Transportation Engineering
15	Ms. J. Sandhya Rani	M.Tech.	OU	Assistant Professor	Structural Engineering
16	Mr. K. Ravi Chandra Reddy	M.E.	University of Detroit, U.S.A.	Assistant Professor	Environmental Engineering
17	Ms.S. Jyothsna Reddy	M.Tech.	JNTUH	Assistant Professor	Infrastructure Engineering
18	Ms. P. Divya	M.Tech.	JNTUH	Assistant Professor	Transportation Engineering
19	Mrs. Sharmista Masih	M.Tech.	NIT Surathkal	Assistant Professor	Construction Technology & Management
20	Ms.G. Sharanya	M.Tech.	JNTUH	Assistant Professor	Highway Engineering
21	Ms. N. Maragatham	M.Tech.	ISM- Dhanbad	Assistant Professor	Environmental Engineering
22	Mr. V. Naveen	M.Tech.	JNTUH	Assistant Professor	Structural Engineering
23	Mr. M. Vamsi	M.Tech.	JNTUH	Assistant Professor	Transportation Engineering
24	Ms. V. Yashodha	M.Tech.	ANU	Assistant Professor	Structural Engineering
25	Mr. T. Manoj	M.Tech.	JNTUH	Assistant Professor	Structural Engineering
26	Mr. K. Mahesh	M.Tech.	JNTUH	Assistant Professor	Highway Engineering
27	Mr. G. Sai Anvesh	M.Tech.	IIT- Kharagpur	Assistant Professor	Transportation Engineering
28	Mr. K. N. V. Chandra Shekar	M.Tech.	IITB	Assistant Professor	Structural Engineering
29	Mr. M Ashok Kumar	M.Tech.	JNTUH	Assistant Professor	Geotechnical Engineering
30	Mr. B. Ramanjaneyulu	M.Tech.	JNTUH	Assistant Professor	Geotechnical Engineering
31	Mr. D. Srinivas Nayak	M.Tech.	IIT-Kharagpur	Assistant Professor	Geotechnical Engineering
32	Mr. P. Ramakrishna	M.Tech.	IIT-Delhi	Assistant Professor	Transportation Engineering
33	Mr. Chilveri Srinath	M.Tech.	NIT-Trichy	Assistant Professor	Transportation Engineering
34	Mr. Bommisetty Jagadeesh	M.Tech.	NITW	Assistant Professor	Engineering Structures
35	Mr. Emmadi Srikanth	M.Tech.	NITW	Assistant Professor	Geotechnical Engineering
36	Mr. T. Sai Keerthan	M.Tech.	JNTUH	Assistant Professor	Structural Engineering

**Dr. K. RAMA SASTRI**

Emeritus Professor & Director, CVR College of Engineering
B.E.(Hons.), M.E.(IISc), Ph.D. (IIT Madras)

Email: director@cvr.ac.in

01

Specialization: Geotechnical Engineering

Experience: He was the Rector, Jawaharlal Nehru Technological University (JNTU) Hyderabad, until July 2002. He had held a wide variety of academic and administrative positions including Professor, Head of Department, Vice-Principal, Principal, Director and Registrar, JNTU prior to becoming the Rector of the University. He has published over 25 papers in National and International Journals and Conferences and he has guided more than 30 M.Tech. Projects. He was also the honorary recipient of the Andhra Pradesh State Government "Best Teacher Award" for the University Teacher Category for the year 1994.

He was the Principal of the CVR College of Engineering during 2002-2007. Under his leadership, CVR College has expanded in different directions, excelling in various engineering disciplines. He took charge as the Director in 2008.

**Dr. M.V. SESHAGIRI RAO**

Professor of Civil Engineering and Dean (Planning and Coordination)
M.Tech. M.S., Ph.D.

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02

Specialisation: Structural Engineering

Professional Bodies Membership: LM-ISTE, ICI, FIE, MIWRS

He is a double postgraduate in Structural Engineering and Software Engineering with Ph.D. in Civil Engineering. He brings on-board rich, vast and varied experience of 38 years in Research, Teaching, Consultancy and Construction. Prior to his current stint at CVR College of Engineering, his portfolio includes key roles of Project Engineer, Project Officer for the UGC Academic college building, Head of the Civil Engineering Department, Vice Principal, Director, BICS and Chief Engineer, BOS Chair-person, Member - Board of Governors, Coordinator for Academic and Research and Coordinator for NBA Nodal Centre at Jawaharlal Nehru Technological University (JNTU), Hyderabad.

He published over 195 research papers and won 09 awards for his publications and works. He was the "Outstanding Concrete Technologist" in 2006, awarded by the INDIAN CONCRETE INSTITUTE for his contribution to the field of Concrete Technology and received the "BEST TEACHER AWARD" from the Government of A.P. in 2009 apart from several other awards for his papers. He guided 23 Ph.D. scholars on Special Concretes and more than 150 M.Tech. Projects as on date. He has successfully completed R&D projects sanctioned by DST, AICTE and other agencies.

He is a member of the program "Capacity Building of Civil Engineers in Earthquake Risk Management" by MHRD for training field Engineers in Earthquake Risk Management. He is also an expert member of UGC, AICTE, UPSC and APPSC. He has published two books on ENGINEERING MECHANICS and CONCRETE TECHNOLOGY.

- ◆ Convener- Research & Development and Consultancy Committee, CVRCED
- ◆ Convener- Project Review Committee, CVRCED
- ◆ Member-Academic Audit Committee, CVRCED



Dr. T. MURALIDHARA RAO

Professor & Head of the Department
B.Tech., M.E., Ph.D.(NITW)

05
Email: tmuralidhararao@cvr.ac.in

Specialization: Structural Engineering

Professional Bodies Membership: LM-ISTE, FIE, ICI, ISC

Additional responsibilities at CVR:

- Convener- Department Development Committee
- Member – Dept. Acad. Committee
- Member- Class Review committee
- Member- Research & Development and Consultancy Committee
- Editorial Member- CVR Journal of Science & Technology
- Chairman-Board of Studies
- Convener- Mini Project Review Committee
- Member- Project Review committee
- Member - Budget & Finance Committee

Experience: Teaching – 25 Years

He formerly worked as a Professor, Head of the Department, Dean and Principal in JNTU affiliated engineering colleges. He has 25 years of teaching experience. He guided 18 B.Tech. and 02 M.Tech. projects. Presently, he is the Professor and Head of the Department.

Areas of Interest:

- Fracture Mechanics of Concrete
- Fibre Reinforced Concrete
- Nano Concrete

Publications / Conferences: *International Journals* – 09, *National Journals* – 09, *National Conferences* - 12.



Dr. B. NAGA MALLESWARA RAO

Professor & Associate Dean (Approvals & Accreditation)
AMIE, M. Tech.(NITW)., Ph.D.(NITW)

06
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Specialization: Water Resources Engineering

Professional Bodies Membership: LM-ISTE, FIE, IAHS, MIAH, MIUT, IEI

Additional responsibilities at CVR:

- Coordinator – NBA
- Member - BoS
- Convener – Dept. Acad. Committee
- Member - Budget & Finance Committee
- Member – IQAC
- Member- Research & Development and Consultancy Committee

Experience: Teaching: 18 Years, **Industry:** 04 Years

He formerly worked as Professor, Head of the Department, Dean - Academics and Vice-Principal in JNTU affiliated engineering colleges. He has 22 years of teaching experience. Presently he is the Professor of Civil Engineering & Associate Dean (Approvals & Accreditation) of College

Publications / Conferences: *International Journals* – 05, *National Journals* – 3, *International Conferences* - 15, *National Conferences* - 19



Dr. SASANK SEKHAR HOTA

Professor

B.Sc. (Engg) (Utkal Univ., Bhubaneswar),
Ph.D. (Jadhavpur Univ., Kolkata)

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07

Experience: Teaching: 30 Years. Has served in many engineering colleges in Odisha State prior to joining CVR College of Engineering. Has vast and rich teaching and research experience of three decades.

Additional responsibilities at CVR:

- Member- Research & Development and Consultancy Committee
- Member- Department Development Committee

Publications / Conferences: *International Journals – 07 , National & International Conferences – 08, Filed one patent titled “Rapid Curing Agent”*

Areas of Interest:

- Finite Element Analysis of Fibre Reinforced Laminated Composites
- Accelerated curing of Precast concrete



Dr.K.Madhusudan Reddy

Professor

B.E ,M.Tech(NIT Allahabad), Ph.D. (IIT Delhi)

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08

Specialization: Geotechnical Engineering

Experience: Has vast Industrial experience of nine years in different specializations of Civil Engineering & worked in well-known companies like IVRCL, Progressive Constructions Ltd, Nagadi Consultants Pvt. Ltd.etc., located in different parts of the Country. He has also involved in international project (National Highway Project) in SUDAN during the year, 2004 -2005. He has

teaching experience of about three years and pursued PhD as fulltime research scholar, under MHRD fellowship

Publications / Conferences: *International Journals – 02*

National & International Conferences – 05

Areas of Interest:

- Pile Foundations
- Ground Improvement
- Soil Exploration (Site Investigations)
- Slope Stability



Dr. SADGUNA NULI

Associate Professor

B.Tech., M. Tech(NIT-Trichy), Ph.D.(IIT-Bombay)

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09

Specialization: Transportation Engineering

Professional Bodies Membership: LM-ISTE

Experience: Teaching: 10 Years

Additional responsibilities at CVR:

- Member- Research & Development and Consultancy Committee
- Class Teacher (III Yr- A)
- Member- Department Development Committee
- Faculty Advisor (IV Yr-A)

Publications / Conferences: *International Journals – 04, International Conferences – 02*



Mr. M. R. RAJAGOPAL

Associate Professor

B.Tech., M.E. Civil (BITS, Pilani), PMP

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Certificate in Global Business Leadership from Harvard Business Publishing.

Specialization: Civil Engineering

Additional responsibilities at CVR:

- Continuous Internal Evaluation (CIE) Coordinator
- Dept. I/c CVR News Letter Co-ordinator
- Dept. Brochure Co-ordinator
- Faculty Advisor (IV Yr- B)
- Member of Academic Audit Committee

Experience: Industry – 19 years, Teaching – 2 years

He has a vast and global corporate IT industry experience from TCS, IBM, Tech Mahindra and HSBC. Has a global consulting experience having worked in Canada, USA, UK, Sweden, Australia, Germany and China. He has the structural design experience from MN Dastur & Co, Kolkata. Certified Project Management Professional (PMP) from PMI, USA.

Publications/Conferences: National Conference - 1



Mr. YASHWANTH PAMU

Associate Professor

M.E. (Ph.D.- Pursuing at OU)

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11

Specialization: Construction and Engineering Management

Professional Bodies Membership: LM-ISC

Experience: Teaching - 3 years, Industry - 2 years

Additional responsibilities at CVR:

- Member- BOS

- Convener- Class Review Committee
- I/c Fluid Mechanics & Hydraulic Machines Laboratory
- Class Teacher (II Yr-A)
- Faculty Advisor (II Yr-A)
- Main Project Coordinator



Mr. A. VAMSHI CHAITANYA

Associate Professor

M.S. (USA), (Ph.D.- Pursuing at OU)

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12

Specialization: Transportation Engineering

Experience: Teaching - 4 years

Additional responsibilities at CVR:

- Faculty Invigilation I/c
- Class Teacher (III Yr- B)
- Faculty Advisor (IV Yr- B)



Mr. N. RAMANJANEYULU

Asst. Professor

M.Tech. (JNTUH), (Ph.D.- Pursuing at JNTUA)

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Specialization: Structural Engineering

Professional Bodies Membership: LM-ISTE

Experience: Teaching - 7 years, Industry – 3 years

Additional responsibilities at CVR:

- Member- Board of Studies

- Coordinator- M. Tech. Structural Engineering Programme
- Class Teacher (II Yr- B)
- I/c Research Lab
- Faculty Advisor (II Yr- B)

Publications / Conferences: International Journals – 1, International Conferences - 1.



Mr. S. PRAVEEN

Asst. Professor

M.Tech. (IITR), (Ph.D.- Pursuing at OU)

Specialization: Transportation Engineering

Professional Bodies Membership: LM-ISTE, ISC

Experience: Teaching - 4 years

Additional responsibilities at CVR: • Faculty Advisor (II Yr-A)

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- Main Project Coordinator
- Attendance Coordinator (III Yr – A&B)
- I/c Highway Material Testing Laboratory

Publications / Conferences: National Journals - 3



Mrs. J. SANDHYA RANI

Asst. Professor

M.E., (Ph.D.- Pursuing at JNTUH)

Specialization: Structural Engineering

Experience: Teaching - 4 years

Additional responsibilities at CVR: • I/c Dept. Minutes of Meeting

- I/c Structural Engg. Lab
- Class Teacher (III Yr-A)

15
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Publications / Conferences: International Journals – 1



Mr. K. RAVI CHANDRA REDDY

Asst. Professor

M.E. (U.S.A.)

Specialization: Environmental Engineering

Experience: Teaching - 5 years, Industry - 2 years

Additional responsibilities at CVR: • Class Teacher (III Yr- B) • Faculty Advisor (II Yr-B)

- Department Library Incharge

16
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Publications / Conferences: International Journals – 1, National Conferences – 2



Mrs. S. JYOTHSNA REDDY

Asst. Professor

M.Tech.(JNTUH)

Specialization: Infrastructure Engineering

Professional Bodies Membership: AMIE

Experience: Teaching - 4 years

Additional responsibilities at CVR: • I/c Faculty Information (JNTUH_FFC)

- Faculty Advisor (II Yr-B)

17
Email: jyothsna.reddy@cvr.ac.in



Mrs. P. DIVYA

Asst. Professor

M.Tech.(JNTUH)

Specialization: Transportation Engineering

Professional Bodies Membership: LM-ISC

Experience: Teaching - 3 years

Additional responsibilities at CVR: • Faculty Advisor (II Yr-A)

18
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Publications / Conferences: International Journals – 1, National Conferences – 4



Mrs. SHARMISTHA MASIH

Asst. Professor
M.Tech.(NIT, Surathkal)

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19

Specialization: Construction Technology and Management

Experience: Teaching – 2 years

- Faculty Advisor (IV Yr-A)



Ms. G. SHARANYA

Asst. Professor
M.Tech.

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20

Specialization: Highway Engineering

Experience: Teaching – 2 years

- Additional responsibilities at CVR:**
- I/c Time Table
 - I/c Environmental Engg. Lab
 - Co-ordinator Practical Examinations
 - Member- IQAC
 - Class Teacher (IV Yr- B)
 - Faculty Advisor (IV Yr- B)

Publications/Conferences: *International Journals – 1, International Conferences – 1, National Conferences – 2*



Ms. N. MARAGATHAM

Asst. Professor
M.Tech.

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21

Experience: Teaching – 2 years

Specialization: Environmental science and Engineering

- Additional responsibilities at CVR:**
- Faculty Advisor (III Yr-A)



Mr. T. MANOJ

Asst. Professor
M.Tech. (JNTUH)

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22

Specialization: Structural engineering

Experience: Teaching – 2 Years

- Additional responsibilities at CVR:**
- Time Table Co-ordinator
 - Faculty Advisor (III Yr- B)
 - I/c Advanced Concrete Technology Lab
 - I/c Dept. Imprest Account



Mr. V. NAVEEN

Asst. Professor
M.Tech. (JNTUH)

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23

Specialization: Structural engineering

Experience: Teaching – 2 Year

- Additional responsibilities at CVR:**
- I/C Cement & Concrete Lab
 - Faculty Advisor (III Yr-B)



Ms. V. YASHODHA

Asst. Professor

M.Tech. (Acharya Nagarjuna Univ.)

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24

Specialization: Structural engineering

Experience: Teaching – 2 Year

- Additional responsibilities at CVR:**
- I/c Technical Seminars (M.Tech. Programme)
 - Class Teacher (IV Yr-A)
 - Faculty Advisor (IV Yr-A)



Mr. M. VAMSI

Asst. Professor

M.Tech. (JNTUH)

Email: mvamshi@cvr.ac.in

25

Specialization: Transportation Engineering

Professional Bodies Membership: LM-IRC, ISRS, AMIE, ISTE, ISC, ISH, ISRD

Experience: Teaching – 2 Year

- Additional responsibilities at CVR:**
- Civil Engineering Association (CEA) faculty Advisor
 - Class Teacher (IV Yr-A)
 - Mini Project Co-ordinator
 - Placement Coordinator
 - Faculty Advisor (III Yr-B)

Publications: International Conferences – 1, National Conferences – 1



Mr. K. MAHESH

Asst. Professor

M.Tech. (JNTUH)

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26

Specialization: Highway Engineering

Professional Bodies Membership: MISC

Experience: Teaching – 2 Year

- Additional responsibilities at CVR:**
- Class Teacher (II Yr-A)
 - Placement Coordinator



Mr. G. SAI ANVESH

Asst. Professor

M.Tech.(IIT Kharagpur)

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27

Specialization: Transportation Engineering

Professional Bodies Membership: MISC

Experience: Teaching – 2 Year

- Additional responsibilities at CVR:**
- I/c Department Library



Mr. K.N.V. CHANDRA SEKHAR

Asst. Professor

M.Tech.(IIT Bombay,) (Ph.D. - Pursuing at OU)

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28

Specialization: Structural engineering

Experience: Teaching – 13 Years

Publications: International Conferences – 4, National Journals-12, International Journals-1

- Additional responsibilities at CVR:**
- I/c Computer Aided Design Laboratory (M.Tech.)
 - Faculty Advisor (III Yr-A)



Mr. M. ASHOK KUMAR

Asst. Professor
M.Tech. (JNTUH)

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29

Specialization: Geotechnical engineering

Experience: Teaching – 1 Year

Publications: National Workshop – 1



Mr. B. RAMANJANEYULU

Asst. Professor
M.Tech.(JNTUH)

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30

Specialization: Geotechnical engineering

Professional Bodies Membership: AMIE

Experience: Teaching – 1 Year

Publications: National Conference - 01, National Conference - 02



Mr. D. SRINIVAS NAYAK

Asst. Professor
M.Tech.(IIT-Kharagpur)

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31

Specialization: Geotechnical Engineering

Experience: Industry – 2 years, Teaching – 4 years

Additional responsibilities at CVR: • I/c Soil Mechanics Lab • Class Teacher (III Yr-A)
• Faculty Advisor (III Yr-A)



Mr. P. RAMAKRISHNA

Asst. Professor
M.Tech.(IIT-Delhi), (Ph.D.-Pursuing at JNTUH)

Email: p.ramakrishna@cvr.ac.in

32

Specialization: Transportation Engineering

Professional Bodies Membership: LM-IAENG

Experience: Industry – 1 year, Teaching – 7 years

Additional responsibilities at CVR: • I/c Surveying Laboratory • Class Teacher (IV Yr-B)
• Mini Projects Coordinator

Publications / Conferences: International Journals – 1



Mr. CHILVERI SRINATH

Asst. Professor
M.Tech.(NIT-Trichy)

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33

Specialization: Transportation Engineering and Management

Experience: Teaching – 1 year

Publications / Conferences: National Journals – 1, National Conferences – 1

**Mr. BOMMISSETTY JAGADEESH**

Asst. Professor
M.Tech.(NITW)

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Specialization: Engineering Structures

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**Mr. EMMADI SRIKANTH**

Asst. Professor
M.Tech.(NITW)

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Specialization: Geotechnical Engineering

Experience: Teaching – 2 years

Additional responsibilities at CVR: • Dept. Brochure Coordinator

Publications / Conferences: International Conferences – 1, National Conferences – 1

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**Mr. T SAI KEERTAN**

Asst. Professor
M.Tech.(JNTUH)

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Specialization: Structural engineering

Experience: Teaching – 1 year

Additional responsibilities at CVR: • Class Teacher (II Yr-B)

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INCENTIVES, SKILL-UP GRADATION AND PROFESSIONAL ADVANCEMENT

RESEARCH: The College has been giving top priority for quality of teachers and acquiring higher qualification. To see that faculty pursue Ph.D., incentive is available to have 6-7 months of paid leave with salary and twice during Ph.D. work. Further an amount of Rs. 25,000 each is sanctioned thrice at different stages. This has helped many faculty to register with Universities like JNTU, OU, University of Hyderabad & other JNTU universities.

RESEARCH PUBLICATIONS: College is known for awarding many incentives to encourage research. For every publication, an incentive of Rs. 20,000/- is awarded based on the recommendation of Research Committee.

College has a research in-house journal published bi-annually with ISSN number 2277-3916 with 10 volumes already published. Faculty members writing a text book are rewarded with Rs. 20,000.

A. Incentives for service Security

- Contributory Provident Fund for Faculty
- Employees Provident Fund for Non-Teaching Staff



- Group Insurance Scheme
- Interest free loan-So far, 56 employees are availing loan with outstanding amount of Rs. 20 Lakhs
- For Non-Teaching & Technical staff with salary below Rs.15000/- medical reimbursement of Rs.5000/- per annum is allowed.
- Crèche for infants and toddlers
- Maternity leaves are provided to the lady faculty
- Medical leaves are provided to the staff

B. Incentives for skill up gradation and professional advancement

- Higher start for Higher qualifications
- 2006 Revised Pay Scales implemented from 1st July 2011
- Incentive of Rs. 20,000/- for each textbook published by standard publisher
- Incentive for improvement of qualification. Yearly financial grant of Rs.10000/-for doing M.Tech. while in service on part-time basis for each of the 3 years period
- Incentive for Presentation of Paper in Conferences/ Seminars– Rs. 10,000/- is given to staff for a paper presented in Conferences / Seminars.
- payment of Rs.20000/- for an article/ paper published in a standard research Journal
- A staff member doing Ph.D. is given a total incentive amount of Rs. 75,000/- in three phases. In addition, he / she is given study leave with full pay for periods ranging upto 7.5 months. This will be granted twice during Ph.D. work.
- Travel Grant for presentations in the conferences
- International Travel Grant

C. Incentives to students

- Book Grant for Weaker sections.
- Management Supported Library for SC / ST Scholarship holders
- Campus Recruitment coaching classes for the students with the help of Experts.
- Merit Awards by the College. Cash and Gold Medals
- Registration fee and travel Gant for students presenting Technical papers
- Part financial support for students submitting technical papers in foreign countries



S. No	Name of the Supervisor	Particulars of Ph.D. Scholars	Research Topic	Status
1	Dr. M.V. Seshagiri Rao	Mr.G.V.Rama Rao AU College of Engg, Visakhapatnam	High Performance Rice husk ash cement concrete	Awarded
2		Mr. M.Ravindra Krishna SVH College of Engineering, Machalipatnam	Strength and Durability behaviour of Super Plasticized High Strength Concrete using combination of Mineral Admixtures	Awarded
3		Mrs.A.Vijaya Lakshmi Bangalore	Climate Responsive Building Envelope for Energy Efficient Buildings	Awarded
4		Mr. N.R. Dakshinamurty KITS,Warangal	A study on the stress-strain behaviour of fly ash concrete of different grades and its application in reinforced beams under flexure	Awarded
5		Ms. P. Sravana JNTUH College of Engg. Hyderabad	Behaviour of high volume fly ash concrete with high volume fly ash as an additional material for structural members and pavements	Awarded
6		Mr. A.Srinivasa Rao Chirala	Study of fracture behaviour and toughness indices of steel fibre reinforced concrete Under mode II loading	Awarded
7		Mr. T. Srinivas Vasavi College of Engg. Hyderabad	Studies on the behaviour of Fibre Reinforced Rice Husk Ash cement concrete	Awarded
8		Mr. T.Suresh Babu SVH College of Engg. Machilipatnam	A study on the mechanical behaviour of standard grade Ternary Blended Glass Fiber Reinforced Self Compacting Concrete and its application in flexure	Awarded
9		Mr. M.Veera Reddy KITS, Warangal	Study of Steel Fibre Reinforced High Strength Rice Husk Ash Cement Concrete under uniaxial compression and its application in flexure	Awarded

S. No	Name of the Supervisor	Particulars of Ph.D. Scholars	Research Topic	Status
10	Dr. M.V. Seshagiri Rao	Mr. S.Sunil Pratap Reddy Christu Jyoti institute of Technology and Sciences	A study on the performance of the bacterial concrete embedded with Bacillus Subtilis	Awarded
11		Mr. P.S.Suryanarayana Chief General Manager, Hyderabad Metropolitan Water Supply and Sewerage Board (HMWSSB)	Strength and Durability studies on concrete composites with admixtures like micro silica and fly ash	Awarded
12		Mr. S Venkateswara Rao NIT,Warangal,	Experimental studies on the effect of size of aggregate and fines on the strength and durability properties of self-compacting concrete	Awarded
13		Mrs.M.Swarupa Rani, CBIT,Hyderabad	Behaviour of self-compacting concrete made with GGBS and RHA under axial compression and flexure	Awarded
14		Mr. Mettu Bhaskara Rao, Hyderabad	Behaviour of concrete beams Reinforced with Glass fibre reinforced polymer bars and flats under shear	Awarded
15		Mrs. Lavanya Prabha, Chennai	Studies on RPC-An ultra-high strength concrete	Awarded
16		Mr. M.Chandrasekhar Hyderabad	Behaviour of Fibre Reinforced Self Compacting Concrete and its application as wall panels	Awarded
17		Mr. G. S. Sudhir kumar, Tumkur	An experimental investigation on slurry infiltrated fibrous cement	Awarded
18		Mr. M.V.Venkateswar Rao Consulting engineer, SECON	The performance of R.C slabs Reinforced with GFRP bars	Awarded
19		Mr. K.SuvarnaLatha Head, Kamala Nehru Polytechnic, Hyderabad	Strength and Durability studies on concrete made with partial replacement of cement and sand with Flyash, GGBS and GBFS	Awarded
20		Mr. V.Srinivasa Reddy, Associate Professor GRIET, Hyderabad	Studies on the properties of self- healing concrete based on microbial induced calcite precipitation by Bacillus Subtilis JC3	Awarded

S. No	Name of the Supervisor	Particulars of Ph.D. Scholars	Research Topic	Status
21	Dr. M.V. Seshagiri Rao	Mr. V.Mallikarjuna Reddy, Associate Professor, GRIET, Hyderabad	Effect of Elevated Temperatures on High Strength Self Compacting Concrete	Awarded
22		Mr. G V V Satyanarayana GRIET, Hyderabad	Mechanical Response of Slab Elements with Mineral Admixtures Under Different Edge Conditions Subjected to Flexure, Punching Shear and Impact	Awarded
23		Mr. S.Srihari, Prof &Head, JBIT Hyderabad	Studies on Self Compacting Concrete Made with Granulated Blast Furnace Slag as Fine Aggregate in Combination With Different Mineral Admixtures	Pursuing
24		Ms. P. Srilakshmi, Assoc. Professor in Civil Engg., JNTUCEH College of Engg. Hyderabad	Stress Strain Behaviour Of SCC in Confined and Unconfined States	Pursuing
25		Mr. N. Ramanjaneyulu, Assistant Professor CVR College of Engineering, Hyderabad	A Study On effect of Light Weight Coarse Aggregate and M-Sand using Standard Grade and Higher-Grade Self Compacting Concrete	Pursuing
1	Dr. N. Murali Krishna	Mr. Masiuddin Siddiqui Asst. Professor of Civil Engineering, MJCET, Hyderabad	Energy based pushover analysis of irregular RCC buildings	Pursuing
2		Mr. R. Prashanth Assoc. Professor of Civil Engineering, MVSR College of Engg. Hyderabad	Optimal Structural Design of Helix Fiber-reinforced Concrete Structures using GA's	Pursuing
3		Mr. P. Anuradha Asst. Professor of Civil Engineering, O.U.College of Engg. Hyderabad	Non-linear Analysis of Infill Frames using Finite Element Approach	Pursuing
4		Mr. V. A. Padmanabha Rao EE, R&B, Khammam	Utility of TMD's in the Structural Design of Cable Stayed Bridges	Pursuing

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Program Educational Objectives are broad statements that describe the career and professional accomplishments that the program is preparing students to achieve.

PEO-I: To prepare students to excel in undergraduate and graduate programs and to succeed as a successful Civil Engineer to take up professional challenges through rigorous training during the program.

PEO-II: To provide the students with a sound foundation in mathematical, scientific and engineering fundamentals required to solve engineering challenges during their work as a professional.

PEO-III: To train students with good scientific and engineering breadth and depth so as to comprehend, analyze, design and pursue innovative projects for real time application to the society.

PEO-IV: To inculcate in students the professional and ethical attitudes, effective communication skills, team work skills, a multidisciplinary approach and an ability to relate engineering issues to a broader social context.

PEO-V: To groom the students with excellent leadership, moral values and the lifelong learning needed for a successful professional career.



PROGRAM OUTCOMES (PO)

ENGINEERING GRADUATES WILL BE ABLE TO

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

2. Problem analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.



- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
- 10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- 11. Project management and Finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOS)

After the completion of four years B. Tech Programme, the students will be able to

- PSO-1:** Design and execute any complex Civil Engineering Project.
- PSO-2:** Acquire necessary skills to carry out time, financial and resource management for any Civil Engineering Project.
- PSO-3:** Prove worthy in higher education.
- PSO-4:** Develop leadership qualities to undertake multi-disciplinary projects.



Name of the course	Course Outcomes
I B.Tech. I Semester	
Mathematics-I	CO1: Understand Model and solve linear differential equations
	CO2: Solve problems on function optimization with and without constraints
	CO3: Apply the knowledge of multiple integrals in solving problems in vector fields
Engineering physics	CO1: Important properties (physical, chemical, optical, electrical etc.) are connected to structure of the crystal Condition for diffraction to take place and the advantages of different methods.They will get an idea about the tailoring of materials by controlling the defects
	CO2: Non-destructive testing is a very useful tool for testing materials for defects and the students are exposed to important techniques like UFD's, Radiography etc.
	CO3: A broad picture about optics and semiconductor devices helps them gain understanding of the basic principles involved
	CO4: Students will understand the important mechanism underlying in the memory devices and the relation between theoretically important quantities and experimentation calculated
	CO5: To develop an understanding the concepts involved in synthesis and characterization of nanomaterials which is a frontier area in materials science today. This would enable the engineer to judiciously choose a material for a specific application
Engineering Chemistry	CO1: Would get an understanding of the importance of different types of portable energy sources like batteries and their limitations
	CO2: Would understand the effect of corrosion and its inevitable consequences on metals which would help him take precautions to protect from corrosion
	CO3: Would be able to handle real time situations involving energy sources water, eco-friendly materials
	CO4: Would develop ability to handle situations involving problems associated with chemical substances in engineering situations
Problem solving through C	CO1: Demonstrate the data representation and data manipulation through well-defined operators
	CO2: Discern the significance of operator precedence and associative properties
	CO3: Incorporate the pre-processor directives, conditional compilation statements and define macros in the program
	CO4: Appreciate the type system implanted in the C programming language
	CO5: Choose appropriate control structure to represent the iterations based on initial conditions
	CO6: Represent a collection of homogeneous data items through arrays
	CO7: Solve the memory access problems through pointers
	CO8: Realise the dynamic memory allocation using pointers which is essential in effective utilisation of memory
	CO9: Demonstrate the logical view of memory using pointers to access arrays, strings and functions and exercise user defined functions
	CO10: Implement the code reusability with the help of user defined functions and pointers
	CO11: Appreciate the advantages of modular programming through functions and possible recursions
Engineering Drawing	CO1: To understand the theory of projection
	CO2: To know and understand the conventions and the methods of Engineering drawing
	CO3: To improve the their visualisation skills so that they can apply these skills in understanding the industrial drawings
	CO4: To prepare simple drawings
English Language and Communication Skills Lab I	CO1: Emerge as good speakers and listeners
	CO2: Develop critical and analytical thinking
	CO3: Write effectively
	CO4: Deliver effective presentation skills using the multimedia tools
Physics Lab	CO1: Get an understanding of errors and their role in physical measurements

Name of the course	Course Outcomes
	CO2: Would develop skills in handling various kinds of laboratory instruments
	CO3: Get awareness of magnitudes of the physical quantities involved
	CO4: Get an understanding of the physical concepts involved. They learn how to present the observations and results at the end of the experiment
Engineering Chemistry Lab	CO1: Students get enabled to deepen and strengthen the level of understanding of various principles involved in experimental techniques involved in engineering chemistry
	CO2: Students get hands on experience with the different instruments and develop experimental skills
	CO3: Students develop analytical skills and learn how to analyse and present results of an experiment
Computer Programming Lab	CO1: Discern the external data representation (byte ordering) followed in Intel processors and effectively utilises the bit wise operators and format specification feature of C
	CO2: Appreciate the type system implanted in the C programming language
	CO3: Demonstrate the logical view of the memory using pointers to access arrays and strings
	CO4: Select appropriate control structure to represent the repetitive actions, based on initial conditions
	CO5: Effectively implement store-reuse principle in programming models
	CO6: Effectively resolve the scope and life time of variables in modularised programs and selects an appropriate storage class in order to realise a design principle
	CO7: Demonstrate the parameter passing aspects to user defined functions
	CO8: Develop programs using command line arguments
	CO9: Develop robust and resilient code through proper error handling mechanisms
	CO10: Fix the run time errors present in the code, using well behaved testing tools like gdb and developing of proper test stubs
IT Workshop Lab	CO1: To identify the peripherals of PC, assemble and disassemble PC components
	CO2: To install the system software MS Windows, Linux and required device drivers
	CO3: To work with productivity tools for Word processing, Spread sheet and Presentations
	CO4: To design basic web pages
Engineering Workshop	CO1: Acquire skills of basic engineering trades like Carpentry Tinsmithy etc
	CO2: Demonstrate an understanding of and comply with workshop safety regulations
	CO3: Identify and use marking out tools, hand tools, measuring equipment and to work to prescribed tolerances
	CO4: Apply the knowledge of the above trades in their day to day activities
I B.Tech. II Semester	
Mathematics II	CO1: To apply the concepts of matrix rank to analyse linear systems
	CO2: Compute Eigen values and Eigen vectors for engineering applications
	CO3: Develop the skill of evaluating Laplace and Inverse Laplace transform to solve linear systems under initial and boundary conditions
Computational Mathematics	CO1: Develop the skill of determining approximate solutions to problems having no analytical solutions in different contexts
	CO2: Solve problems related to cubic spline fitting and approximation of functions using least squares
	CO3: Develop the skill of finding approximate solutions to problems arising in linear differential equations
Data Structures through C	CO1: Represent the real-world data objects through arrays and structures
	CO2: Handle self-referential structures
	CO3: Give persistence to data either in a record form or in a text form and be able to manipulate the same
	CO4: Handle mechanisms that are essential for understanding the concepts in database management systems
	CO5: Represent Abstract data types in array and linked forms and implement various data structures like stacks, queues
	CO6: Culture the generic representation of data types using void pointer feature of C and developing the ADTs
	CO7: Understand, implement and profile different sorting techniques

Name of the course	Course Outcomes
Applied Engineering Mechanics	CO1: To understand the system of forces and their effects of engineering structures
	CO2: To calculate sectional properties which will be an important deciding design parameter in the engineering design
	CO3: To apply the concepts of friction in the design/analysis of various mechanical systems
English Language and Communication Skills Lab II	CO1: Evolve as effective communicators
	CO2: Emerge as decision makers
	CO3: Develop critical and analytical skills
	CO4: Gather ideas and information and organise them coherently
	CO5: Develop leadership and team building skills
	CO6: Emerge as autonomous learners
	CO7: Develop narrative skills
Computational Mechanics Lab	CO1: Represent real world data in a program
	CO2: Implement various Numerical Methods related to solving the real world problems
	CO3: Analyse the complexity of various algorithms based on the convergence criterion
Data Structures through C Lab	CO1: Exercise upon derived data types including structures and unions to represent the real world data items
	CO2: Represent abstract data types in array and linked forms and implement various data structures like stacks, queues
	CO3: Culture the generic representation of data types using void pointer feature of C and developing the ADTs
	CO4: Understand, implement and profile different sorting techniques like bubble, insertion, quick and merge sort
	CO5: Incorporate the pre-processor directives, conditional compilation statements and defining macros in the program
	CO6: Realise the static linking aspects and develops static libraries using Menu based tools
	CO7: Effectively resolve the scope and life time variables in modularised programs and selects an appropriate storage class for aim order to realise a design principle
II B.Tech. I Semester	
Probability and Statistics	CO1: Represent the engineering problem as an appropriate statistical model
	CO2: To collect and analyze the data in engineering problem using different statistical methods
	CO3: To draw conclusions after analyzing the data and implementing them in the engineering problem
Strength of Materials-I	CO1: To apply the knowledge of mathematics to identify, formulate and analyze engineering Problems
	CO2: To understand the applications of strain energy concepts
	CO3: To interpret the real-time problems and approximate analytical solutions
	CO4: To design circular shafts and close coiled helical springs with appropriate resisting capacities
	CO5: To calculate the deflections of determinate beams useful in the design checks
Engineering Geology	CO1: To use naturally available minerals and rocks in manufacturing process of Construction Materials such as Pozzolanic cements, Concrete and Admixtures
	CO2: To identify suitable site for Civil engineering structures like reservoirs and dams.
	CO3: To apply the relevance of Engineering Geology for successful completion of major Civil Engineering structures
	CO4: To prevent failure of major Civil Engineering structures due to Geological drawbacks and suggest suitable type of tunnels for tunnelling works in Roadways and Railways.
Surveying-I	CO1: To conduct different types of measurements in different types of surveying
	CO2: To locate proper site for bridges, dams, reservoirs, calculation of capacity of a Reservoir, quantity of cutting and filling and route map for Roads, Railways, Canals etc. using Plane Table Surveying and Contouring
	CO3: To plot profile of the ground by using Auto level
	CO4: To prepare contour maps for different field conditions and compute areas and volume using Simpson's and Trapezoidal rule

Name of the course	Course Outcomes
Fluid Mechanics	CO1: To understand and analyse the fluid properties and measurements of flows using different instruments
	CO2: To acquire elementary knowledge of effect of forces on fluids and submerged bodies.
	CO3: Understand the application of principle of conservation of energy
	CO4: To design pipes for carrying fluids and to understand the effect of hydraulic hammer
Building Materials & Construction Practices	CO1: To have knowledge on naturally available building materials keeping in view strength, safety, durability, weathering, climatic and economic aspects.
	CO2: To understand the different building services like plumbing, ventilation, air conditioning, acoustics and fire protection
	CO3: To understand the requirement and design of form work
	CO4: To understand building bye-laws, norms for planning, meeting targets of utility, optimizing time of construction.
Surveying Lab	CO1: To conduct chain survey
	CO2: To find distance between two points by using compass
	CO3: To use plane table for plotting an area in the field
	CO4: To conduct fly levelling and differential levelling
	CO5: To prepare contour maps.
Geology Lab	CO1: To identify physical properties of different types of minerals and their characteristics
	CO2: To identify different types of rocks and their characteristics
	CO3: To interpret and draw sections for geological maps
	CO4: To solve structural geology problems
Data Interpretation Lab	CO1: Students are introduced to concepts of Statement-Argument, Assumption and Course of Action. Students learn to use reasoning as a tool to match statements with arguments etc.
	CO2: Students are trained to look at data and find links and patterns. It teaches them to link data with conclusions. It enhances their ability to study data logically.
	CO3: Students are trained to study problem situations and use reasoning as a tool to find solutions. This nurtures the ability to use reasoning as a skill to find solutions to real time problem solving.
	CO4: To analyze and infer the data with respect to trend and case based.
II B.Tech. II Semester	
Environmental Studies	CO1: To develop awareness about the hazards to environment
	CO2: To develop awareness about optimum utilization of natural resources
	CO3: To learn about GREEN TECHNOLOGIES to maintain sustainable development
	CO4: To get awareness about rules and regulations applicable for pollution control
Electrical Technology	CO1: Identify basic circuit components and solve basic problems using Ohms law, Mesh and Nodal analysis. Solve the problems on series and parallel combinations, understand the construction.
	CO2: Understand the Construction and working principle of single phase transformer and calculate the efficiency and regulation of transformer by OC and SC Test.
	CO3: Understand the construction and working of three phase induction motor and alternator.
Construction Machinery	CO1: To identify different tunnelling equipment and boring machines.
	CO2: To distinguish between different Piles Driving Machinery and Earth Work Machinery.
	CO3: To identify different Compaction Machinery.
	CO4: To identify different Hoisting Equipment & Conveying Equipment.
	CO5: To use appropriate construction machinery for a specific purpose in the construction of any engineering structure
Concrete Technology	CO1: To calculate the mechanical properties of cement and aggregates.
	CO2: To measure the workability and the mechanical properties of concrete.
	CO3: To conduct different strength tests on concrete and non-destructive tests on concrete.
	CO4: To design a desired grade of concrete with and without admixtures with good understanding about the effect of creep, shrinkage and elastic deformation on the durability of concrete
	CO5: Use special concrete depending on the requirement

Name of the course	Course Outcomes
Strength of Materials - II	CO1: To analyse the variation of stresses in thick cylinders and thin cylinders
	CO2: To analyze, design and assess the failure behaviour of structural members.
	CO3: To determine the deflections of structural members.
	CO4: To analyze the arches and determinate pin jointed plane frames and determine the deflections of frames.
	CO5: To analyze the structures (Highway bridges, Railway bridges etc.) subjected to moving loads.
Surveying - II	CO1: To measure horizontal and vertical angles and to run traverse using theodolite.
	CO2: To measure the distance and reduced Levels between different objects using trigonometric
	CO3: To set out different types of horizontal and vertical curves and also to set out works
	CO4: To work with Total station and Electronic Theodolite in different field conditions
Hydraulics and Hydraulic Machines	CO1: To design the most economical channel section.
	CO2: To analyze the relationship between the model and prototype of hydraulic structures.
	CO3: To calculate efficiencies of different types of turbines and centrifugal pumps.
	CO4: To understand the principles lying in establishing hydropower plants
	CO5: Calculate efficiencies of different types of turbines and centrifugal pumps
Surveying Lab - II	CO1: To use Theodolite for measuring horizontal and vertical angles
	CO2: To conduct trigonometric levelling for finding heights and distances
	CO3: To conduct tachometric surveying
	CO4: To determine area using Total station
	CO5: To conduct traversing, contouring, setting out works, distance, gradient between two points using Total Station
Strength of Materials Lab	CO1: To find deflection and Young's modulus of a Cantilever beam, simply supported beam etc.
	CO2: To determine the Torsional strength of steel bars.
	CO3: To determine the Hardness of different metal specimens.
	CO4: To find Stiffness of different metal specimens.
	CO5: To determine the Impact strength of different metal specimens.
	CO6: To use Electric Resistance Strain Gauges for various applications.
Verbal Ability Lab	CO1: Students will develop familiarity with Corporate English
	CO2: Students will have enriched vocabulary
	CO3: Students will develop the ability to write grammatically correct sentences and enhance their professional writing skills
	CO4: Students will be proficient in answering reasoning based questions
III B.Tech. I Semester	
Managerial Economics and Financial Analysis	CO1: Capable of analyzing fundamentals of economics such as demand, Production, price, supply concepts etc., which helps in effective business Administration
	CO 2: Analyze economies of scale and the Break-Even Point
	CO 3: Able to determine the Price-Output Relationship in different market Structures
	CO 4: Analyze how to invest adequate amount of capital in order to get maximum return from selected business activity
	CO 5: Analyze accounting statements like income & expenditure statement, balance sheet to understand financial performance of the business and to initiate the appropriate decisions to run the business profitably
Structural Analysis	CO 1: Compute the static indeterminacy, kinematic indeterminacy and also the deflection of indeterminate structures.
	CO 2: Determine redundant forces and joint rotations of the indeterminate beams.
	CO 3: Evaluate the joint displacements of the indeterminate beams and rigid frames.
	CO 4: Calculate the redundant forces of the indeterminate beams and frames.
	CO 5: Determine the joint displacements of the indeterminate beams and frames.
	CO 6: Analyze the given forces acting on structures using a suitable analytical method.

Name of the course	Course Outcomes
Reinforced Concrete Structures	CO1: Use the limit state design concepts for the design of reinforced concrete structures
	CO2: Demonstrate the reinforcement details for beams of different cross sections
	CO3: Elucidate the reinforcement details for reinforced concrete slabs
	CO4: Demonstrate the reinforcement details of compression members
	CO5: Explicate the serviceability requirements of reinforced concrete elements and also design of staircase.
	CO 6: Design the given reinforced concrete building elements.
Soil Mechanics	CO 1: Determine the index properties of soils and also to classify the soils based on the classification test results.
	CO 2: Study the behaviour of soils under permeable and impermeable conditions.
	CO 3: Compute the vertical stresses in soils when subjected to the external loading.
	CO 4: Study the behaviour of the soil due to compaction and consolidation which is useful in the prediction of stability of structures.
	CO 5: Usefulness of the shear strength parameters of soils under different drainage conditions.
	CO 6: Suggest a suitable soil for the construction with a good shear strength and bearing capacity.
Water Resources Engineering - I	CO 1: Estimate the rainfall over a catchment area.
	CO 2: Evaluate the role of evaporation, infiltration and runoff on hydrographs.
	CO 3: Asses different aquifer parameters influencing the groundwater occurrence.
	CO 4: Design a suitable method of irrigation that suits for preserving the soil nutrients.
	CO5: Design a suitable irrigation canal with an appropriate canal lining
	CO6: Ascertain the efficiency of a catchment area.
Hydraulics & Hydraulic Machines Lab	CO 1: Ability to calibrate venturimeter, orifice meter & notches
	CO 2: Ability to find coefficient of discharge for small orifice by different methods
	CO 3: Ability to find impact of jet on vanes
	CO 4: Ability to explain the concept of hydraulic jump
	CO 5: Ability to conduct performance test on pelton wheel turbine and Francis turbine and efficiency test on centrifugal pumps
Soil Mechanics Lab	CO 1: Determine the index properties and Atterberg limits of cohesive soil.
	CO 2: Compute the field density of soil samples.
	CO 3 Evaluate the permeability behaviour of the soil.
	CO 4: Assess the effect of compaction and consolidation.
	CO 5: Calculate the shear strength parameters of soil.
Effective Technical Communication Lab	CO1: Attain proficiency in technical writing
	CO2: Use English language appropriately to write effective reports, notes and summaries.
	CO3: Write emails suitable for professional communication
	CO4: Develop analytical and critical thinking skills
III B.Tech. II Semester	
Steel Structures	CO 1: Apply the concepts of plasticity, limit state design and to understand the design of different types of connections.
	CO 2: Design the columns and the connection with column bases.
	CO 3: Design concept of the plate girder.
	CO 4: Design the components of roof trusses carrying different loads as per IS specifications.
	CO 5 : Design a strong steel structure satisfying the permissible stresses and deflection criteria
Foundation Engineering	CO 1: Suggest a suitable method for soil exploration
	CO 2: Use an appropriate analysis to have a stable earthen embankment
	CO 3: Recommend a suitable earth pressure for designing an earth retaining structure
	CO 4: Design & Suggest a suitable foundation for different soil conditions
	CO 5: Estimate different parameters involved in the design of well foundations

Name of the course	Course Outcomes
Transportation Engineering	CO 1: Accomplish Engineering surveys and prepare a good highway alignment.
	CO 2: Design the Cross section and alignment for different roads and National highways.
	CO 3: Study the traffic design and parking characteristics to assure traffic safety.
	CO 4: Comprehend the importance of road markings & design of traffic signalling system for a suitable intersection design and rotary design
	CO 5: Understand the importance and suitability of railway engineering & its geometrical design.
Advanced Structural Analysis	CO 1: Design and detailing the Retaining walls.
	CO 2: Design a suitable capacity water tank that suits real time application.
	CO 3: Design the flat and waffle slabs as per IS specifications.
	CO 4: Design the deep beams with high moment carrying capacity.
	CO 5: Design steel gantry girders for an industrial shed.
Air pollution and Control	CO 1: Ascertain the air pollutants and effects of pollutants.
	CO 2: Suggest a suitable method for the removal of a particular pollutant.
	CO 3: Maintain ambient air quality.
	CO 4: Suggest a suitable plume model.
	CO 5: Recommend an appropriate measure in the plant and can monitor and suggest suitable method for air quality management
Construction Techniques & Practices	CO 1: Accomplish different form work activities.
	CO 2: Suggest a suitable shoring technique and fire resisting technique.
	CO3: Practice prefabrication and pre-stressing techniques
	CO4: Propose an appropriate jacking technique tunnelling technique and piling technique .
	CO 5: Evaluate the quality of the materials and construction and prepare tender documents, PERT, CPM Charts, estimate the quantities.
Infrastructure Engineering	CO 1: Develop Project ideas for an effective planning and appraisal of infrastructure projects.
	CO 2: Plan activities in line with procurement, scheduling and management efficiently.
	CO 3: Proficiently estimate and account for public works.
	CO 4: Organize work flow considering both time and money.
	CO 5: Analyze and complete the given project effectively without any risk factors.
Health Monitoring and Retrofitting of Structures	CO 1: Propose the health monitoring requirements depending on the age of structures.
	CO 2: Use appropriate sensor and health monitoring system.
	CO 3: Evaluate a suitable strengthening technique for retrofitting.
	CO 4: Use IT concepts for health monitoring of structures such as multi-storied building & bridges etc.
	CO 5: Suggest an appropriate seismic retrofitting technique for the structures.
Computer Aided Structural Drafting Lab	CO 1: Design various structures for the requirements of the society as per IS codes.
	CO 2: Summarize the detailing of various structural elements.
	CO 3: To draw Structural detailing of other RCC elements and steel sections.
	CO 4: Detail the RC foundations and steel foundations.
	CO 5: Develop the detailing for RC staircase.
Advanced English Communication & Soft Skills Lab	CO 1: Evolve as effective communicators
	CO 2: Emerge as decision makers, time managers and good negotiators
	CO 3: Develop holistic soft skills
	CO 4: Develop critical and analytical skills
	CO 5: Present their skills confidently in the job market
	CO 6: Gather ideas and information and organise them relevantly and coherently.
	CO 7: Develop leadership and team building skills.
Quantitative Ability Lab	CO 1: Solve the problems using arithmetic, mensuration, geometry, averages& clocks& calendars questions
	Co 2: Practice general problems in placement, CAT and GRE etc. tests

Name of the course	Course Outcomes
IV B.Tech. I Semester	
Retrofitting and Rehabilitation of Structures	CO1: Ability to understand causes for distress & preventive measures against distress in structures CO2: Ability to use appropriate materials and techniques for rehabilitation & retrofitting of structures CO3: Ability to use different methods for damage assessment of structures CO4: Ability to use sensors & instrumentation for the health monitoring of important structures
Remote Sensing and GIS	CO1: Ability to apply remote sensing techniques in obtaining Geographic information of a given catchment CO2: Ability to use the knowledge of Geospatial data & attribute data management in infrastructural development CO3: Ability to prepare topological maps of land use and land cover CO4: Ability to do digitization of topological maps using the field data and existing data
Estimation & Costing	CO1: Ability to estimate total cost of a project CO2: Ability to become a good-valuer of buildings and other structures CO3: Ability to prepare tenders and tender documents CO4: Ability to prepare bar bending schedules, work orders & project activity schedules
Entrepreneurship	CO1: Ability to gain knowledge of creating and starting a venture CO2: Ability to prepare business plan CO3: Ability to gain knowledge of venture capital financing CO4: Ability to gain knowledge of institutional support to entrepreneurs CO5: Ability to gain knowledge of documentation for starting business
Pavement Analysis and design	CO1: Ability to understand the use of appropriate materials in different road layers CO2: Ability to evaluate quality & performance of bound and unbound road materials CO3: Ability to analyze and design flexible and rigid pavements CO4: Ability to construct different types of pavements
Prestressed concrete structures	CO1: Ability to understand necessity of pre-stress introduction in concrete structures CO2: Ability to use appropriate materials for pre-stressing of concrete structures CO3: Ability to use relevant IS Codes to design pre-stressing concrete structures CO4: Ability to understand the strength and serviceability design requirements of pre-stressed concrete structures
Concrete and Highway Materials Lab	CO1: Ability to determine the physical and mechanical properties of aggregate CO2: Ability to determine the index properties of bitumen CO3: Ability to determine the physical and mechanical properties of cement CO4: Ability to determine the mechanical properties of concrete
Environmental Engineering Lab	CO1: Ability to perform qualitative analysis of a given water sample CO2: Ability to find presence of chlorides, total solids, iron, dissolved oxygen, nitrogen and total phosphorus in a given water sample CO3: Ability to find BOD and COD in wastewater samples CO4: Ability to determine the optimum coagulant dose for removal of colloidal particles in water CO5: Ability to determine chlorine demand in water for disinfection
Industry Oriented Mini Project	CO1: Ability to collect ideas through literature survey about new innovations, analyze and interpret into new solutions. CO2: Ability to make themselves aware of the industry perspective and new industry trends. CO3: Ability to develop writing skills by submitting a technical report
IV B.Tech. II Semester	
Construction Planning Technology and Management	CO1: Ability to prepare planning, scheduling & construction methodology CO2: Ability to control quality control and safety CO3: Ability to prepare checklist of tender documentation CO4: Ability to prepare financial closures, resource levelling CO5: Ability to participate in business development activities

Name of the course	Course Outcomes
Green Building Concepts	CO1: Graduates will be able to get knowledge on Green Buildings and its related technologies and Awareness in understanding the importance of climate, climatic changes and its influence
	CO2: Graduates will be able to elaborate building materials choice and adoption of alternative materials in construction
	CO3: Students will be able to recognize the components of urban ecosystem solar radiation, Air movements on the earth and land use and awareness on environmental impacts and ecological balance
	CO4: To design building resources (passive energy, building components materials etc.) and ability to plan, schedule and monitor building infrastructure
Airport Planning and Design	CO1: To understand the concepts of planning and designing of airports
	CO2: To understand the significance of airports in nations economy
	CO3: To understand the concepts of airport capacity runway capacity airport configuration runway configuration taxiway configuration
	CO4: To understand the different factors which affect the planning and design aspects of an airport
	CO5: To understand the different obstructions of airport functioning
Management Science	CO1: To learn about management concepts
	CO2: To acquire confidence in planning, organizing, directing and controlling an organization
	CO3: To understand different elements in an organizational structure
	CO4: To develop concepts in quality control technique and in marketing, financing, human resource and production departments of an organization
Seminar	CO 1: Graduates will be able to present on the design and fabrication of imparted knowledge in different aspects of a domain.
	CO 2: Graduates will be able to present to the audience on the methods of solving.
	CO 3: Graduates will be able to build confidence and develop presentation skills and improve communication skills.
	CO4: Graduates will be able to sharpen their personality, intelligence and make themselves aware of knowledge about new hardware and software needs of market.
Comprehensive Viva	CO 1: Graduates shall be able to communicate the technical aspects of the subjects they have studied in the four years of B.Tech. Programme.
	CO 2: Graduates will be able to express their depth of knowledge by understanding the current problems and/or new insights at the forefront of those subjects.
	CO 3: Graduates will be able to convince the command on the subject systematically.
Project Work	CO 1: Graduates will be able to explain the aim, objective and utility of the complex problem to the selected audience.
	CO 2: Graduates will be able to develop software Project management skills, Problem solving skills and System integration skills
	CO 3: Graduates will be able to work in a team to solve real-life problems and maintain professionalism.

**B.Tech. III year - I semester (CBCS: 2017-18)
Open Elective-1**

S.N o.	Subject Code	Dept.	Subject	Periods per Week		Credits	Scheme of Examination Maximum Marks		
				L	T/P/D		Int.	Ext.	Total
1	31305	CE	Photogrammetry & Remote Sensing	3	0	3	30	70	100
2	31306	CE	Smart Materials & Smart Structures	3	0	3	30	70	100
3	35305	CSE	Fundamentals of Object Oriented Programming Using Java	3	0	3	30	70	100
4	35306	CSE	Fundamentals of Operating Systems and Shell Programming	3	0	3	30	70	100
5	34307	ECE	Consumer Electronics	3	0	3	30	70	100
6	34308	ECE	Communication Systems	3	0	3	30	70	100
7	32304	EEE	Electrical Safety	3	0	3	30	70	100
8	32305	EEE	Electric & Hybrid Vehicles	3	0	3	30	70	100
9	36303	EIE	Elements of Reliability Engineering	3	0	3	30	70	100
10	36304	EIE	Basics of Sensors and Technology	3	0	3	30	70	100
11	37302	IT	Basics of Data Base Management Systems	3	0	3	30	70	100
12	37303	IT	Basics of Data Analytics	3	0	3	30	70	100
13	33305	ME	Basics of Automobile Engineering	3	0	3	30	70	100
14	33306	ME	Engineering Materials	3	0	3	30	70	100
15	38302	H&S	Basics of Human Anatomy & Physiology	3	0	3	30	70	100
16	38303	H&S	Forensic Engineering	3	0	3	30	70	100
17	38304	H&S	Entrepreneurship	3	0	3	30	70	100
18	38305	H&S	Professional Ethics and Corporate Social Responsibility	3	0	3	30	70	100

Note: Students cannot opt for an Open Elective subject offered by their own / parent department. Open Electives offered by CSE & IT cannot be opted by students of CSE & IT

**B.Tech. III year - II semester (CBCS: 2017-18)
Open Elective-2**

S.No	Subject Code	Dept.	Subject	Periods per Week		Credits	Scheme of Examination Maximum Marks		
				L	T/P/D		Int.	Ext.	Total
1	31362	CE	Green Building Technology	3	0	3	30	70	100
2	31363	CE	Geographical Information System	3	0	3	30	70	100
3	35356	CSE	Fundamentals of Computer Networks	3	0	3	30	70	100
4	35357	CSE	Fundamentals of Web Programming	3	0	3	30	70	100
5	34361	ECE	Digital Design	3	0	3	30	70	100
6	34362	ECE	Fundamentals of Wireless Communications	3	0	3	30	70	100
7	32358	EEE	Industrial Electronics	3	0	3	30	70	100
8	32359	EEE	Electrical Engineering Materials	3	0	3	30	70	100
9	36359	EIE	Fundamentals of Technology Management	3	0	3	30	70	100
10	36360	EIE	Fundamentals of Bio Medical Applications	3	0	3	30	70	100
11	37357	IT	R-Programming	3	0	3	30	70	100
12	37358	IT	Programming Using Python	3	0	3	30	70	100
13	33357	ME	Fundamentals of Manufacturing Technology	3	0	3	30	70	100
14	33358	ME	Concepts of Refrigeration & Air Conditioning	3	0	3	30	70	100
15	38352	H&S	Fundamentals of Human Food and Nutrition	3	0	3	30	70	100
16	38353	H&S	Intellectual Property Rights	3	0	3	30	70	100
17	38354	H&S	Appreciation of Contemporary Literature	3	0	3	30	70	100
18	38355	H&S	Fundamentals of Data Science	3	0	3	30	70	100

Note: Students cannot opt for an Open Elective subject offered by their own / parent department. Open Electives offered by CSE & IT cannot be opted by students of CSE & IT

B.Tech. IV year II - semester (CBCS: 2018-19)
Open Elective-3

S. No	Subject Code	Dept .	Subject	Periods per Week		Credits	Scheme of Examination Maximum Marks		
				L	T/P /D		Int.	Ext.	Total
1	31452	CE	Disaster Mitigation & Management	3	0	3	30	70	100
2	31453	CE	Safety Engineering	3	0	3	0	70	100
3	35451	CSE	Fundamentals of Mobile Computing	3	0	3	30	70	100
4	35452	CSE	Web Programming Models through NIP	3	0	3	30	70	100
5	34455	ECE	Applications of Microcontrollers	3	0	3	30	70	100
6	34456	ECE	Matlab for Engineers	3	0	3	30	70	100
7	32454	EEE	Non Conventional Sources of Energy	3	0	3	30	70	100
8	32455	EEE	Energy Management	3	0	3	30	70	100
9	36452	EIE	Fundamentals of Measurements and Control Systems	3	0	3	30	70	100
10	36453	EIE	Basics of Virtual Instrumentation	3	0	3	30	70	100
11	37451	IT	Basics of IoT	3	0	3	30	70	100
12	37452	IT	Cyber Security	3	0	3	30	70	100
13	33457	ME	Product Design & Development	3	0	3	30	70	100
14	33458	ME	Basics of Power Plant Engineering	3	0	3	30	70	100
15	38452	H&S	Polity & Politics In India	3	0	3	30	70	100
16	38453	H&S	Basic German Language for Engineers	3	0	3	30	70	100
17	38454	H&S	Social Psychology	3	0	3	30	70	100
18	38455	H&S	Operations Research and Statistical Quality Control	3	0	3	30	70	100

LABORATORIES OF THE DEPARTMENT

CVR College of Engineering offers one of the best laboratory facilities to enable the faculty and students to learn and perform high quality research. In addition to education and research, the department has the necessary equipment to perform experiments for the consultancies. The following is the list of well equipped laboratories:

1. Strength of materials lab
2. Survey lab
3. Engineering Geology lab
4. Geotechnical Engineering lab
5. Fluid Mechanics and Hydraulic Machine lab
6. Highway Materials Testing lab
7. Cement and Concrete lab
8. Environmental Engineering lab
9. Computer Aided Drafting lab
10. Structural Engineering lab
11. Advanced Concrete Technology
12. Centre for Advanced Structural Engineering (Research Lab)

Strength of Materials Laboratory (Equipment Cost Rs. 12,36,129/-)

List of the equipment

- | | |
|---|-------------------------------|
| F Universal Testing Machine | F Compression Testing Machine |
| F Torsion Testing Machine | F Impact Testing Machine |
| F Brinell & Rockwell Hardness Testing Machine | F Spring Testing Machine |
| F Deflection of Beams Apparatus | |



Universal Testing Machine

Survey Laboratory (Equipment Cost Rs. 22,11,550/-)

List of the equipment

- Total Stations
- Theodolites
- Tacheometers
- Compasses
- Digital Planimeter
- Global Positioning System (GPS)
- Plane Tables
- Auto Levels
- Optical Squares



Surveying using Total Station



Compass Surveying



Plane Table Surveying

Engineering Geology Laboratory (Equipment Cost Rs. 1,85,727/-)

List of the equipment

- Minerals
- Rocks
- Geological Models
- Geological Maps



Geological Models



Rock and Mineral Specimens

Geotechnical Engineering Laboratory (Equipment Cost Rs. 14,46,387/-)

List of the equipment

- Triaxial Shear Apparatus
- Consolidation Apparatus
- Standard Penetration Test
- Field Density Apparatus
- Atterberg Limits Apparatus
- Direct Shear Apparatus
- C.B.R. Apparatus
- U.C.C. Apparatus
- Hydrometer Analysis Apparatus
- Sieve Shaker
- Automatic Compactor
- Permeability Apparatus
- Proctor Compaction Apparatus
- Specific Gravity of Soil
- Ovens



Triaxial Shear Test Apparatus



Direct Shear Test Apparatus

Fluid Mechanics and Hydraulic Machines Laboratory (Equipment Cost Rs. 17,16,117/-)

List of the equipment

- Pelton Turbine
- Reciprocating Pump/ Centrifugal Pump/ Multistage
- Metacentric Height Apparatus
- Pipe Friction Apparatus
- Orifice/ Mouth Piece
- Rectangular & V-Notch Apparatus
- Francis Turbine
- Open Channel Flow
- Loss of Head in Pipes Apparatus
- Hydraulic Jump Apparatus
- Kaplan Turbine
- Orificemeter and Venturimeter
- Bernoulli's Apparatus
- Impact of Jet on Vanes Apparatus



Fluid Mechanics and Hydraulic Machines Laboratory

Cement and Concrete Laboratory (Equipment Cost Rs. 20,42,293/-)

List of the equipment

- Computerised Compression Testing Machine (3000 kN)
- Cement Mortar Mixing Apparatus
- Compaction Factor Apparatus
- Concrete Mixer, Pan type
- Sieve Shaker
- Le-Chatelier Apparatus
- Bulk Density Apparatus
- Cement Mortar Vibrating Machine
- Consistometer
- Vibrating Table
- Blaines Air Permeability Apparatus
- Vicat Apparatus
- Slump Cone



Computerised Compression Testing Machine



Cement Mortar Vibrating Machine

Highway Materials Testing Laboratory (Equipment Cost Rs. 6,02,494/-)

List of the equipment

- Los Angeles Abrasion Machine
- Bitumen Ductility Apparatus
- Softening Point Apparatus
- Aggregate Crushing Apparatus
- Pycnometer
- Deval's Attrition Machine
- Centrifuge Extractor
- Flash and Fire Point Apparatus
- Density Basket
- Water Bath
- Marshall Stability Apparatus
- Bitumen Penetration Apparatus
- Aggregate Impact Apparatus
- Length Gauge/ Thickness Gauge
- Hot Air Oven



Los Angeles Abrasion Test Apparatus



Centrifuge Extractor



Marshall Stability Apparatus

Environmental Engineering Laboratory (Equipment Cost Rs. 6,82,320/-)

List of the equipment

- UV- Visible Spectrophotometer
- Jar Test Apparatus
- Conductivity Meter
- Hot Air Oven
- Magnetic Stirrer
- pH Meters
- DO Analyzer
- COD Digester
- Turbidity Meter
- Distilled water still
- BOD Incubator



UV Spectro Photometer



Jar Test Apparatus



Environmental Engineering Lab

Computer Aided Design & Drafting Laboratory (Software Cost. Rs. 8,30,863/-)

List of Software

- Auto CAD
- ETABS
- STADD Pro

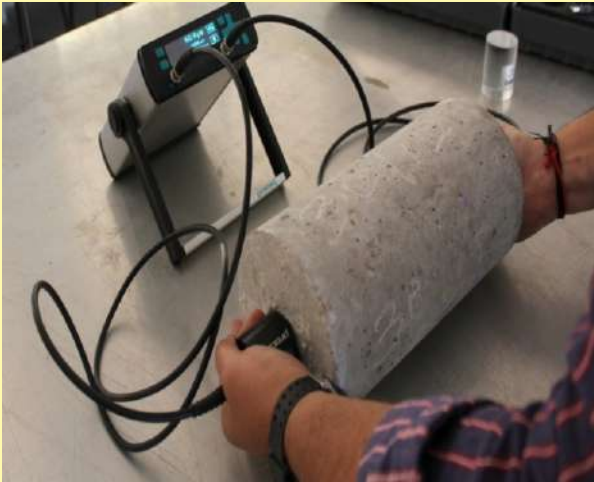


View of Computer Aided Design & Drafting Laboratory

Structural Engineering Laboratory (Equipment Cost Rs. 8,61,931/-)

List of the equipment

- Concrete Permeability Apparatus
- Rebound Hammer
- Self-Compacting Concrete Apparatus
- UV-Pulse Velocity Apparatus
- Accelerated Curing Tank



UV Pulse Velocity Apparatus



Rebound Hammer Apparatus



Concrete Permeability Apparatus



Accelerated Curing Tank

Advanced Concrete Technology Laboratory (Equipment Cost Rs. 5,87,283/-)

List of the equipment

- Air Entrainment Meter
- Concrete Penetrometer
- Hot Air Oven
- Length Comparator
- Compression Testing Machine (2000kN)
- Autoclave Apparatus
- Vicat Apparatus
- Longitudinal Compressometer
- Heat of Hydration Apparatus
- Le-Chatelier's Apparatus



Air Entrainment Meter & Hot Air Oven



Autoclave Apparatus and Compression Testing Machine

Project and Research Laboratory (Equipment Cost Rs. 33,45,000/-)

Computerized Load Frame

Four Column type of Computerised Load frame of 1000kN capacity in Flexure, Compression and 20 Tonnes in Lateral Load testing, with two modes of testing (Load Control Mode and Displacement Control Mode) facility is available. Beams, Columns and Slab Panels can be tested using the Load Frame. Cost of equipment is Rs. 32,50,000/-.

High Temperature Furnace

1000° C Capacity High Temperature Furnace is available to conduct Thermal studies on specimens of different materials. Cost of equipment is Rs. 95,000/-.



Computerized Load Frame



High Temperature Furnace

B. Tech.

S. No	B. Tech	Volume	Title	Edition	Amount
1	General (Central Library)	3212	495	27	10,07,360.21
2	MSB (Central Library)	439	---	---	2,10,036.00
3	BB Books (Central Library)	27	---	---	---
4	Dept. Library	193	178	4	27,778.00
	TOTAL	3871	673	31	12,45,174.21

M.Tech.

S. No	M. Tech	Volume	Title	Edition	Amount
1	Structural Engineering (Central Library)	584	82	---	2,51,032.40
2	Dept. Library	12	12	---	5,402.50
	TOTAL	596	94	---	2,56,434.90

Journals

S. No	Particulars	Quantity
1	E- Journals	209
2	E- Books	44
3	NPTEL	22
4	National Journals-Hard Copy	17
5	International Journals- Hard Copy	36

CENTRAL LIBRARY - LIST OF JOURNALS SUBSCRIBED

INTERNATIONAL JOURNALS (ONLINE):

S.NO.	Name of the Journal Subscribed	Journal Name	Soft Copy (Details of Service Provider & No. Of User Licenses taken with License Validity periods)
1	ASCE	35 Journals	Global information systems technology pvt.ltd. Haryana & unlimited user license with one year validity period
2	DELNET	209 Journals	Developing library network, New Delhi & unlimited user license with one year validity period

NATIONAL JOURNALS (HARD COPIES):

S. No	Name of the Journal
1	Civil Engineering Construction Review
2	Environment and WE
3	Indian Concrete Institute Journal
4	Indian Concrete Journal
5	Indian Geotechnical Journal
6	Indian Highways
7	Indian Journal of Engineering & Material Sciences
8	Indian Journal of Geosynthetics & Ground Improvement
9	Indian Journal of Power and River Valley Development
10	Indian Road Congress
11	Hydrology And GIS
12	Journal of Construction Engineering, Technology & Management
13	Journal of Institute of Engineers (India) Series A: (Architectural, Environmental and Agricultural Engineering)
14	Journal of Institute of Town Planners of India
15	Journal of Remote Sensing & GIS
16	Journal of Structural Engineering
17	Recent Trends in Civil Engineering & Technology

JOURNALS TITLES (2017-18)

1. International Journal of Geomechanics
2. Journal of Aerospace Engineering
3. Journal of Architectural Engineering
4. Journal of Bridge Engineering
5. Journal of Cold Regions Engineering
6. Journal Composites for Construction
7. Journal of Computing in Civil Engineering
8. Journal of Construction Engineering and Management
9. Journal of Energy Engineering
10. Journal of Engineering Mechanics
11. Journal of Environmental Engineering
12. Journal of Geotechnical and Geoenvironmental Engineering
13. Journal of Hazardous, Toxic, and Radioactive Waste
14. Journal of Highway and Transportation Research and Development, English Edition
15. Journal of Hydraulic Engineering
16. Journal of Hydrologic Engineering
17. Journal of Infrastructure Systems
18. Journal of Irrigation and Drainage Engineering
19. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction
20. Journal of Management in Engineering
21. Journal of Materials in Civil Engineering
22. Journal of Nanomechanics and Micromechanics
23. Journal of Performance of Constructed Facilities
24. Journal of Pipeline Systems Engineering and Practice
25. Journal of Professional issues in Engineering Education and Practice
26. Journal of Structural Engineering
27. Journal of Surveying Engineering

28. Journal of Transportation Engineering
29. Journal of Urban Planning and Development
30. Journal of Water Resources Planning and Management
31. Journal of Waterway, Port, Coastal, and Ocean Engineering
32. Leadership and Management in Engineering
33. Natural Hazards Review
34. Practice Periodical on Structural Design and Construction
35. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engg.
36. Journal of Sustainable Water in the Built Environment

CVR Journal of Science and Technology, CVR Newsletter

(i) **News Letter:** Aegle Vista- Newsletter is published twice in every year. Newsletter encapsulates the developments in all Departments, technical events conducted within the departments.

(ii) **Technical Journal:** College publishes in house journal “CVR Journal of Science & Technology” with ISSN No.2277-3916, twice in a year. This has editorial board with senior professors from college and from other Universities/ Institutions. Dr. Lal Kishore, Dean Research is the Chief Editor. Invitation is sent to colleges for receiving technical papers. The papers received in a prescribed format are selected by a screening committee. Such papers are published in the journal. This favours us to enrich our knowledge about the recent advancements and upcoming trends in the field of Civil Engineering.

S. No.	Magazine / News Letter	Description	Periodicity
1	Aegle Vista issue 1	Details of college level activities	Half-yearly
2	Aegle Vista issue 2	Details of college level activities	Half-yearly
3	CVR Journal of Science and Technology with ISSN 2277-3916	Invites research articles from faculty of our college and many other colleges. (ISSN 2277-3916)	Half-yearly

CIVIL ENGINEERING ASSOCIATION

A Civil Engineering Association (CEA) has been formed by the students of the Department for the benefit of students to impart additional knowledge in the field of Civil Engineering apart from the prescribed curriculum by organizing Guest lectures by eminent specialists from universities and industry, Technical Quiz, Workshops, Model Making Contests by students will help to develop the organizing capabilities among the students.

DETAILS OF GUEST LECTURES/ SEMINARS/WORKSHOPS/AWARENESS CAMPS
CONDUCTED BY EXTERNAL EXPERTS

Guest Lectures organized by Civil Engineering Association:



Guest Lecture by Dr. Muneender Erukulla, Director, Vishwa Technologies, Hyderabad (27 July 2017)



Guest Lecture by Mr. Subbarao Mukunda, Geotechnical Consultant, Hyderabad (21 July 2017)



Guest Lecture by Mr. Sridhar Reddy, Managing Director, Sri Harsha Consultants, Hyderabad (18 July 2017)



Guest Lecture by Sri. Parakala Srinivas, General Manager, Sri Sri Gruhanirman India Pvt. Ltd, Hyderabad (13 July 2017)



Guest Lecture by Sri. G Sunil, Managing Director, Gorle Group Structural Engineering, Hyderabad (06 July 2017)



Guest Lecture by Dr.Venkaiah Chowdary, Asst. Professor of Civil Engineering, NIT Warangal (27 Jan 2017)



Guest Lecture by Dr. M. Kumar, Professor of Civil Engineering, Osmania University, Hyderabad (21 September 2016)



Guest Lecture by Dr.G. Neelima Satyam, Asst. Professor of Civil Engineering, IIIT Hyderabad (12 July 2016)



Guest Lecture by Dr.N.Narayana, Professor, Dept.of Civil Engg., CVR College of Engineering (5 September 2015)



Memento felicitation to Dr.M.Amarnath Reddy, Assoc.Professor, IIT, Kharagpur for delivering a guest lecture (7 July 2015)



Memento felicitation to Mr.M. Sridhar, Vice President, SEW Infrastructure, Hyderabad, for delivering a guest lecture (22 September 2014)



Guest Lecture by Dr. S.Krishna, Vice President, Aarvee Associates, Hyderabad (17 October 2014)



Guest Lecture by Mr.P.D. Varadarajan, Asst.Vice President, VASCON, Pune (14 October 2014)



Guest Lecture by Dr.K.SrinivasaRaju, Professor, BITS-Pilani, Hyderabad (12 August 2014)



Guest Lecture by Dr.M.V.Seshagiri Rao, Professor, JNTU, Hyderabad (23 January 2014)



Guest Lecture by Mr. M.V.RamanaMurthy, Executive Engineer, APGENCO, Hyderabad (27 December 2013)



Felicitating Dr. E.Sai Baba Reddy, Professor & Rector, JNTUH in the inaugural function of CEA (2 September 2013)

Details of Guest Lectures Organised:

S.No.	Topic of Guest Lecture	Date	Name of the Guest Speaker	Designation	Organization
1.	Carrer Opportunities for Civil Engineers	July 27, 2017	Dr. Muneender Erukulla	Director	Vishwa Technologies, Hyderabad
2.	Geotechnical Engineering in Infra Structure Development	July 21, 2017	Sri. Subbarao Mukunda	Geotechnical Consultant	Geotechnical Consultant, Hyderabad
3.	Career Guidance	July 18, 2017	Sri. Sridhar Reddy	Managing Director	Sri Harsha Consultants, Hyderabad
4.	Project Planning, Estimation & Costing of High Rise Buildings	July 13, 2017	Sri. Parakala Srinivas	General Manager	Sri Sri Gruhanirman India Pvt. Ltd. Hyderabad
5.	Career Guidance	July 06, 2017	Sri. G Sunil	Managing Director	Gorle Group Structural Engineering, Hyderabad
6.	Integrated Urban Flood Management in India	Jan 28, 2017	Dr. Uma Mahesh	Professor	NIT, Warangal
7.	IRC Method of Flexible Pavement Design	Jan 27, 2017	Dr. Venkaiah Chowdary	Asst. Professor	NIT, Warangal
8.	Irrigation Canal Operation Plan	Jan 6, 2017	Sri. Ghanta Surender	Director (ITC)	WALAMTARI, Hyderabad
9.	Future Scope & Challenges of Transportation Engineering	Sep 21, 2016	Dr.M. Kumar	Professor	Osmania University, Hyderabad
10.	Design of Foundations for Tall Buildings	Jul 12, 2016	Dr.G. Neelima Satyam	Asst. Professor	IIIT Hyderabad
11.	Cement: An overview of Manufacturing process & properties	Sept 05, 2015	Dr. N Narayana	Professor	CVR College of Engineering, Hyderabad
12.	Role of Construction Chemicals in the World of Concrete	July 23, 2015	Sri.N Suresh & Mr.G. Ravi Kiran	Technical Engineer & Sales Engineer	BASF, Hyderabad.
13.	Smart Cities: Boon for Infrastructure Opportunities.	July 07, 2015	Dr. Amarnath Reddy	Associate Professor	IIT Kharagpur

14.	Behaviour of Continuous Structures & Segmentally Constructed Bridges	Oct 17, 2014	Sri.Krishna Sandepudi	Vice President	Aarvee Associates Pvt. Ltd, Hyderabad
15.	Shuttering Systems & Their Significance in Construction Sector	Oct 14, 2014	Sri.P.D.Varadarajan	Vice President	VASCON Engineers Ltd, Pune
16.	Career Opportunities & Employable Skills for Civil Engineers	Sept 22, 2014	Sri.M.Sridhar	Vice President	SEW Infrastructure, Hyderabad
17.	Recent Developments in Water Resources Engineering-Case Studies	Aug 12, 2014	Dr.K.Srinivasa Raju	Professor	BITS Pilani, Hyderabad
18.	Latest Developments in Concrete Technology	Jan 23, 2014	Dr.M.V.SeshagiriRao	Professor	JNTU,Hyderabad
19.	Planning & Construction of Hydro Power Projects	Dec 27, 2013	Sri.M.V.Ramana Murthy	Executive Engineer	APGENCO, Hyderabad

Workshops organized by Civil Engineering Association



Three Day In-House workshop on “Urban Traffic Modelling Using VISSIM (UTMV-2017)” (09-11th November 2017)



Three Day In-House workshop on “Analysis and Design of R.C.C and Steel Structures Using ETABS” (21-23rd September 2017)



One Day In-House Workshop on “Application of STAAD Pro in Civil Engineering”
CVR College of Engineering, Hyderabad (22nd July 2017)



Two Day National Workshop on Finite Element Formulations in Civil Engineering Applications,
CVR College of Engineering, Hyderabad (30 & 31 January 2015)



One Day Workshop on “Recent Developments in Construction Practices”
CVR College of Engineering, Hyderabad (22 September 2015)

Details of Workshops Conducted:

S.No.	Topic of Workshop Conducted	Date	Name of the Guest Speakers	Designation	Organization
1	Three Day In-House Workshop on "Urban Traffic Modelling Using Vissim (Utmv-2017)"	09 – 11th November 2017	Mr. Vivek Singh	Consultant and Trainer	Civil Simplified Bangalore
2	Three Day In-House Workshop on "Analysis and Design of R.C.C and Steel Structures Using ETABS	21-23 rd September 2017	Mr. Ashok	Consultant and Trainer	ARK Info solutions Pvt. Ltd. Hyderabad
3	One-day Workshop on Application of STAAD Pro and ETABS in Civil Engineering	22nd July 2017	Mr. Ashok	Consultant and Trainer	ARK Info solutions Pvt. Ltd.
4	Two Day National Workshop on "Finite Element Formulations in Civil Engineering Applications"	Jan 30 & 31, 2015	Dr. M. Koti Reddy Dr. Ravinder Reddy Dr. Rupesh Kumar	Professor Professor Asst. Professor	CBIT, Hyderabad CBIT, Hyderabad O.U, Hyderabad
5	One day In-House Workshop on "Recent Developments in Construction practices"	Sept 22, 2015	Dr. K.V.L Subramanyam Er. B.K.Eswar Dr. M. V. SeshagiriRao	Professor & Head Technical Director Professor	IIT Hyderabad Civil AID Technoclinic Pvt. Ltd. Hyderabad JNTU Hyderabad

INDUSTRIAL VISITS



Vizag Steel Plant, Visakhapatnam



Bhavanam Ready Mixed Concrete Private Limited, Adibatla, Hyderabad



Construction Skills Training Institute (CSTI), Jadcherla, Hyderabad



L&T, Building on Transit (BoT) Project site, Moosrambagh, Hyderabad



National Institute of Rural Development & Panchayat Raj, Rajendra Nagar, Hyderabad



National Institute of Rural Development & Panchayat Raj, Rajendra Nagar, Hyderabad



Survey of India, Indian Institute of Survey & Mapping (IISM), Uppal, Hyderabad



L&T Construction Skilled Training Institute (L&T CSTI), Jadcherla



Jeedimetla Effluent Treatment Ltd, Hyderabad



Traffic Management Centre, Bangalore.



Geological Survey of India, Hyderabad.



Geological Survey of India, Hyderabad.

Date	Industry Visited
10&11 August 2017	Vizag Steel Plant, Visakhapatnam
07 & 08 July 2017	Bhavanam Ready Mixed Concrete Private Limited, Adibatla, Hyderabad
25 & 27 February 2017	Construction Skills Training Institute (CSTI), Jadcherla, Hyderabad
5 & 6 January 2017	L&T, Building on Transit (BoT) Project site, Moosrambagh, Hyderabad
12 & 13 August 2016	National Institute of Rural Development & Panchayat Raj, Rajendra Nagar, Hyderabad
17 March 2016	National Institute of Rural Development & Panchayat Raj, Rajendra Nagar, Hyderabad
11 & 12 February 2016	Survey of India, Indian Institute of survey & Mapping (IISM), Uppal, Hyderabad
19 December 2015	L&T Construction Skilled Training Institute (L&T CSTI), Jadcherla.
12 & 13 August 2015	Geological Survey of India (GSI), Hyderabad.
21 December 2014	Bongaluru Outer Ring Road, Hyderabad.
18 October 2014	Jeedimetla Effluent Treatment Ltd. (JETL), Hyderabad
27 December 2013	Traffic Management Centre (TMC), Bangalore.

Faculty recharge by attending National and International Workshops & Guest Lectures:

S.No	Name of the Workshop	Dates	Organized by	Venue	Attended by
1	One-day National Workshop on "Seismic Design and Detailing of Reinforced Concrete Buildings"	09th December 2017	JNTU Hyderabad	JNTU Hyderabad	Mr. B.Jagadeesh
2	One-day National Workshop on "Seismic Design and Detailing of Reinforced Concrete Buildings"	09th December 2017	JNTU Hyderabad	JNTU Hyderabad	Mrs.S.Jyothsna
3	One-day National Workshop on "Seismic Design and Detailing of Reinforced Concrete Buildings"	09th December 2017	JNTU Hyderabad	JNTU Hyderabad	Ms. J.Sandhya Rani
4	One Week National Workshop On "Traffic and Transportation Planning for Smart Cities" (TTPSC 2017)	20-25th November 2017	VNR Vignana Jyothi Institute of Engineering & Technology Hyderabad	VNR VJIET Hyderabad	Ms. G.Sharanya
5	One Week National Workshop On "Traffic and Transportation Planning for Smart Cities" (TTPSC 2017)	20-25th November 2017	VNR Vignana Jyothi Institute of Engineering & Technology Hyderabad	VNR VJIET Hyderabad	Mr. K.Mahesh

S.No	Name of the Workshop	Dates	Organized by	Venue	Attended by
6	One-day National Workshop on "Bitumen Rheology"	22nd September, 2017	BITS-PILANI	Hyderabad Campus	Ms. G. Sharanya
7	One-day National Workshop on "Bitumen Rheology"	22nd September, 2017	BITS-PILANI	Hyderabad Campus	Mr. M. Vamsi
8	Three-day National workshop on "Waste Management Technologies for Urban Areas"	23 to 25 Jan, 2017	NIT, Warangal	NIT, Warangal	K. Ravi Chandra Reddy
9	Two-day National workshop on "Structural Health Monitoring and Condition Assessment of Existing Structures" (SHMCAES-2017)	20 & 21 January, 2017	Osmania University, Hyderabad	Osmania University, Hyderabad	Mr.S. Praveen
10	Two-day workshop on "Good Concrete Construction Practices (GCCP 2016)"	28 & 29 Oct, 2016	Osmania University, Hyderabad	Osmania University, Hyderabad	Mrs. Sharmistha Masih
11	Two-day workshop on "Design, Construction, Evaluation and Maintenance of Cement Concrete Pavements"	21 & 22 Oct, 2016	Osmania University, Hyderabad	Osmania University, Hyderabad	Mr.K.Mahesh, Mr.G.Sai Anvesh, Ms.P.Divya Mr.V.Venkataramana
12	Two-day National workshop on "Computer Applications in Civil Engineering"	21st & 22nd Oct, 2016	Vasavi College of Engineering, Hyderabad	Vasavi College of Engineering, Hyderabad	Mrs.S.Jyothsna Reddy, Ms.G. Sharanya, Ms.J.Sandhya Rani Mr.N.Ramanjaneyulu
13	One-day National Workshop on "Geo-Disaster - Ground and Slope Instability"	01 Oct, 2016	JNTU, Hyderabad	JNTU, Hyderabad	Ms.G.N.S.Niharika Rao, Mr.K.Vijay Kiran, Mr.M.Ashok Kumar, Mr.B. Ramanjaneyulu
14	Six-day workshop on "Data Science and Big Data Analytics"	19 thru 24 Aug, 2016	Electronics and ICT Academy, NIT, Warangal	CVR College of Engineering, Hyderabad	Mr.M.R.Rajagopal
15	One day workshop on "Advances in concrete technology and good construction practices"	26 May, 2016	JNTU- Hyderabad	JNTU- Hyderabad	Mr. N.Ramanjaneyulu, Ms. J.Sandhya Rani, Ms. G.Sharanya
16	Two-day National workshop on "Emerging Trends in Structural Engineering"	11 & 12 Mar 2016	DST-SERB	K.L.University	Ms. P.Divya
17	Two-day International workshop on "Rebooting Infrastructure"	Nov 26 & 27, 2015	CII	Bengaluru, Karnataka	Dr.N.Narayana
18	One day Workshop on "Outcome based Education & Accreditation"	Sep 14, 2015	JNTU, Hyderabad	JNTU, Hyderabad	Dr. T.Muralidhara Rao

S.No	Name of the Workshop	Dates	Organized by	Venue	Attended by
19	One day National symposium on "Recent Advances in Pavement Technology"	Mar 13, 2015	MVSR Engineering College, Hyderabad	MVSR Engineering College, Hyderabad	Mr.S. Praveen
20	International Workshop on "Geotechnical Symposium on Disaster Mitigation in Special Geo-Environmental Conditions"	Jan 21 thru 23, 2015	IIT, Madras	IIT, Madras	Ms.D.D.N.Laxmi Devi
21	International workshop on "Emerging trends in Earthquake Engineering and Structural Dynamics". Organized by Indian Association of Structural Engineers (IASE)	Dec 19 & 20, 2014	Structural Engineering	IIT, Delhi	Mrs. B.Uma Radha
22	Two-day National workshop on "Project Management National India"	Sep 12 thru 14, 2014	PMI India	Novotel, Hitex Hyderabad	Mr. M. R. Rajagopal
23	One -day National workshop on "Developments in Earth Sciences and Earthquake Engineering"	Apr 25, 2014	CBIT	CBIT, campus	Ms.J.Sandhya Rani
24	Two-day National workshop on "Advances in Fibre Reinforced Polymers and Composites"	Mar 13 & 14, 2014	CBIT	CBIT, campus	Ms.J.Sandhya Rani
25	Two-day National workshop on "Recent Advances in Civil Engineering"	Jan 3 & 4, 2014	ACE Engineering College	ACE Engineering College	Mr. N. Ramanjaneyulu Mr.K.Rajendra Prasad
26	National workshop on Meeting Infrastructure challenges"	Oct 23 thru 26, 2013	ICI-IWC-2013	Hitex, Madhapur	Mr. N. Ramanjaneyulu
27	National workshop on "Geopractices-2013"	Oct 4, 2013	IGS, JNTUH	JNTUH	Mr.D.Yugandhar
28	National workshop on "Pavement Materials and Pavement Design"	Sep 21, 2013	JNTUH	JNTUH	Mr.B.H.Mahesh Mr.Chandrakanth, Mr.S.Praveen
29	National workshop on "Seismic Energy Dissipation Systems"	May 9, 2013	IIT, Hyderabad	IIT, Hyderabad	Mrs.B.UmaRadha
30	National workshop on "Seismic Energy Dissipation Systems"	May 9, 2013	IIT, Hyderabad	IIT, Hyderabad	Mr.K.Rajendra Prasad
31	National workshop on "Learning Outcomes"	Mar 16, 2013	CVR College of Engineering	CVR Campus	Mr. K. Rajendra Prasad
32	National workshop on "Design and Analysis on STAAD.PRO"	Jan 23 & 24, 2013	GRIET, Hyderabad	GRIET, Hyderabad	Mr.K.Rajendra Prasad

S.No	Name of the Workshop	Dates	Organized by	Venue	Attended by
33	National workshop on "Advanced surveying and mapping using total station - hands on practice"	Jan 18 & 19, 2013	VNR VJIET	VNR VJIET Campus	Mr. N. Ramanjaneyulu
34	National workshop on "Structure-Foundation Interaction Analysis in Reservation & Reconstruction of Historical Monuments"	Dec 13, 2012	IIIT, Hyderabad	IIIT, Hyderabad	Mrs.B.Uma Radha
35	One day Workshop on "Manufactured sand-its utilization"	Sept 6, 2012	Dept. of Mines of Geology Govt. of AP	Vishakhapatnam	Dr. N. Narayana
36	One day Workshop on "Arc GIS"	Aug 25, 2012	KL University, AP	KL University, AP	Ms.P.Divya
37	Two-day Workshop on "Environmental Challenges for the New Millenium"	Nov 25, 26 2010	GPREC, Kurnool, AP	GPREC, Kurnool.	Dr.T.Muralidhara Rao
38	12 th NCB International Seminar	Nov 15 thru 18, 2011	NCB, Delhi	NCB, Delhi	Dr. N. Narayana
39	One day Workshop on "Concrete day Programme"	Oct 7, 2011	ICI	Hyderabad	Dr. N. Narayana
40	Earthquake Engineering literature survey workshop	Jul 7-16 2011	NICEE	IIT, Kanpur	Mr.B.Mallikarjun, Mr.K.Rajendra Prasad

Faculty recharge by attending the National / International Conferences:

S. No	Name of the conference	Dates	Organized	Venue	Attended by
1	78th Annual Session of the Indian Roads Congress	3-6 th November 2017	Indian Roads Congress	Bengaluru	Mr. M.Vamsi
2	International Conference on "Indian Society for Theoretical and Applied Mechanics"	15th-18th, December 2017	IIT Kharagpur	Osmania University	Mr. K. N. V Chandrasekhar Dr. T. Muralidhara Rao
3	National Conference on "Sustainable Practices and Advances in Civil Engineering"	1st September 2017	Department of Civil Engineering	KITS Warangal.	Mr. S Praveen
4	Two-day International Conference on "Integrated Solid Waste Management Practice in Developing Countries"	11 & 12 April, 2017	CSIR - National Environmental Engineering Research Institute	(CSIR - NEERI), Nagpur	Mr. K. Ravi Chandra Reddy
5	International Conference on 'Geotechniques For Infrastructure Projects'	Feb 27 & 28, 2017	Indian Geotechnical Society	KTDC Mascot Hotel, Trivandrum	Mr. K. Vijay Kiran, Mr. B. Ramanjaneyulu & M Ashok Kumar
6	Three-day national level conference on "Transportation Planning & Implementation Methodologies for Developing Countries"	19 — 21 December, 2016	Civil Department	IIT Bombay	Mr. A. Vamsi Chaitanya
7	National Conference on "Sustainable Materials and Management Systems in Civil Engineering"	15-16 December 2016.	CBIT, Hyderabad	CBIT, Hyderabad	Ms. J.Sandhya Rani
8	International Conference on "Indian Society for Theoretical and Applied Mechanics"	11-14 December 2016	IIT Kharagpur	IIT Kharagpur	Mr. K. N. V Chandrasekhar
9	A national conference on "Recent Trends in Civil Engineering"	Feb 20 & 21, 2015	GITAM Hyd	GITAM Hyd	Ms. J.Sandhya Rani
10	International conference on "Transportation Planning and Implementation Methodologies for developing countries", organized by the Transportation Systems Engineering (TSE) group	Dec 10 thru 12, 2014	Transportation System Engineering	IIT, Bombay	Ms.P.Shruthilaya

S. No	Name of the conference	Dates	Organized	Venue	Attended by
11	One day Seminar on "Green Cities" on World Earth Day – 2014	Apr 22, 2014	The Institute of Engineers India. (IEI)	IEI Main Building, Hyderabad	Mr.S.HariKiran
12	One day seminar on Leadership in Energy and Environmental Design	Sep 2013	IEI, Bhuwaneshwar	Bhuwaneshwar, Orissa	Mr.S.HariKiran
13	Recent Trends in Structural Engineering	Jan 6 & 7, 2012	VNR VJIET	VNR VJIET Campus	Mr.K.Rajendra Prasad
14	Two-Day National Conference on "Recent Innovations in Civil Engineering"	15th -16th December 2017	GRIET Hyderabad.	GRIET Hyderabad.	Mr. N.Ramanjaneyulu
15	International Conference on "Emerging Trends in Civil Engineering"	6 – 8 Jan. 2014	VNRVJIET, Hyderabad	VNRVJIET, Hyderabad	Dr. B. Naga Malleswara Rao
16	4th International Conference on "Hydrology and Watershed Management"	29 Oct. – 1 Nov. 2014	JNTU, Hyderabad	JNTU, Hyderabad	Dr. B. Naga Malleswara Rao
17	4th International Conference on "Hydrology and Watershed Management"	29 Oct. – 1 Nov 2014	JNTU, Hyderabad	JNTU, Hyderabad	Dr. B. Naga Malleswara Rao
18	International Conference on "Modelling Tools for Sustainable Water Resources Management"	26 – 29Dec. 2014	IIT, Hyderabad	IIT, Hyderabad	Dr. B. Naga Malleswara Rao
19	3rd International Conference on "Transportation Research Group of India (CTRG)"	17 – 20Dec 2015	IIT Kharagpur	IIT Kharagpur	Dr. B. Naga Malleswara Rao
20	National Conference on "Highways Construction Technology"	14 &15th July 2016	Hyderabad International Convention Center (HICC)	Hyderabad	Ms. G. Sharanya
21	National Conference on "Sustainable Water Resources planning, Management and Impact on Climate Change"	5 - 6, April 2013	BITS - Pilani, Hyderabad Campus	BITS - Pilani, Hyderabad Campus	Dr. B. Naga Malleswara Rao
22	National Conference on "Water, Environment & Society (NCWES-15)"	30-31 July 2015	JNTUH Hyderabad	JNTUH Hyderabad	Dr. B. Naga Malleswara Rao

S. No	Name of the conference	Dates	Organized	Venue	Attended by
23	National Conference on "Climate Change & Sustainable Water Resources Management"	3-5 September, 2015	NIT, Warangal	NIT, Warangal	Dr. B. Naga Malleswara Rao
24	National Conference on "Disaster Preparedness, Mitigation and Reconstruction of Sustainable Society (DPMRSS-16)"	11-12 February, 2016	VNRVJIET	VNR VJIET	Dr. B. Naga Malleswara Rao
25	National Conference on "Water Resources and Flood Management with Special Reference to Flood Modelling (WRFM-2016)"	14-15, October, 2016	SVNIT, Surat	SVNIT, Surat	Dr. B. Naga Malleswara Rao

Faculty recharge by attending the Short-term courses:

S.NO	Name of the Short-term course	Dates	Organized	Venue	Attended by
1	Five day Faculty Development Workshop on "Effective Teaching and Learning of Geotechnical Engineering using Field Practices and Case Studies"	06-10 th December 2017	NIT Warangal	NIT Warangal	Mr. E Srikanth
2	Five day Faculty Development Workshop on "Effective Teaching and Learning of Geotechnical Engineering using Field Practices and Case Studies"	06-10 th December 2017	NIT Warangal	NIT Warangal	Mr. B Ramanjaneyulu
3	Two-Week Faculty Development Programme on "Entrepreneurship Development"	30 October-11 November 2017	National Institute for Micro, Small and Medium Enterprises	Hyderabad	Mr. M R Rajagopal
4	Two-Week Faculty Development Programme on "Entrepreneurship Development"	30 October-11 November 2017	National Institute for Micro, Small and Medium Enterprises	Hyderabad	Mr. P. Rama Krishna

S.NO	Name of the Short-term course	Dates	Organized	Venue	Attended by
5	5-Day GIAN Short term course on “ Implementation of Advanced Transportation Management Systems (ATMS)”	4th to 8th September 2017	Department of Civil Engineering	NIT Warangal.	Mr. S Praveen
6	5-Day GIAN Short term course on “ Implementation of Advanced Transportation Management Systems (ATMS)”	4th to 8th September 2017	Department of Civil Engineering	NIT Warangal.	Dr. Sadguna Nuli
7	An advanced training program in "Green Buildings",	22&23 December 2016.	Confederation of Indian Industry CII	Raidurg, Hyderabad	Mr. P. Yashwanth
8	Five-day short-term course on “Low-Volume Roads”	26 Sept to 30 Sep, 2016	NIT, Warangal	NIT, Warangal	Mr.M.Vamsi
9	Two-day training programme “BHUVAN OVERVIEW”	27 & 28 Jan 2016	National Remote Sensing Centre Hyderabad	National Remote Sensing Centre Hyderabad	Mrs. P.Neeraja
10	Three-week professional development program (TDP) on “Geospatial technologies applications in science and engineering research”	Dec 19, 2015 thru Jan 08, 2016	Sponsored by Department of Science and Technology (DST)	Gitam university, Vizag	Mrs.P.Neeraja
11	Modelling with Transportation Data (MTD)	Jun 08 thru 12, 2015	IIT Roorkee	IIT Roorkee	Mr.S.Praveen
12	Three-day short-term course on “Structural Engineering Convention”	Dec 22thru 24, 2014	Structural Engineering	IIT, Delhi	Mrs.B.Uma Radha

S.NO	Name of the Short-term course	Dates	Organized	Venue	Attended by
13	Open house organized by National information centre of earthquake engineering (Nicee).	Nov 3 thru 12, 2014	Structural Engineering	IIT Kanpur	Mrs.B.Uma Radha
14	Five-day short-term course on "Finite Element Methods in Civil Engineering"	May 05 thru 09, 2014	Quality Improvement Programme (QIP), IIT Bombay	Quality Improvement Programme (QIP), IIT Bombay	Mr.N. Ramanjaneyulu
15	One -day short-term course on "Entrepreneurship Development"	Sep11, 2013	National Small Industries Corporation Ltd	NallaMalla Reddy Engineering College	Mr.K.Ravichndra Reddy
16	Five-day short-term course on "Formwork for Concrete Structures"	Jun 17 thru 21, 2013	IIT Delhi	IIT Delhi	Mr.N. Ramanjaneyulu & Mr.K.Rajendra Prasad
17	Faculty Development program on "Entrepreneurship"	Jun 20 thru July 3, 2012	Centre for Entrepreneurship Development	ACE Engineering College	Ms.P.Shruthilaya
18	Introduction to Forensic Engineering and Failure analysis	Jan 9 thru 13, 2012	NIT, Tiruchirappalli	NIT, Tiruchirappalli	Mr.K. Rajendra Prasad

DETAILS OF TEXT BOOKS WRITTEN BY FACULTY

1. Dr. N. Narayana published a book on “Progress in Cement and Concrete: Testing and Quality Control in cement industry (Vol-3)” - Optical Microscopy – A quality control tool for the cement industry; ABI – International Publication, New Delhi.
2. Dr. N. Narayana published a book on “Status of limestone availability and potential sites for setting large cement plants” (2nd Edition) SP-14-1991; NCB Publication, New Delhi.
3. Dr. N. Narayana published a book on “NORMS for Proving Limestone Deposits for cement manufacture” (3rd Edition) SP-9-03, November 2003, NCB Publication, New Delhi.

TECHNICAL PAPERS PUBLISHED IN JOURNALS BY FACULTY

1. Dr. T. Muralidhara Rao and Gopinath Reddy published a paper on “Flexural Behaviour of Reinforced Concrete Beams using ANSYS”, CVR Journal of Science and Technology, Vol.12, June 2017, pp 1-12.
2. Mr. M. Ashok Kumar and B. Ramanjaneyulu published a paper on “A Case Study on Effect of Lead Effluent from Batteries on Soil Properties”, CVR Journal of Science and Technology, Vol.12, June 2017, pp 13-17
3. Mr. Naveen Sharma and K.N.V Chandrasekhar published a paper on “Response of Reinforced Concrete Structural Components Subjected to the Blast Loading”, CVR Journal of Science and Technology, Vol.12, June 2017, pp 18-24.
4. Mr.Laxmikanth Reddy and V. Naveen Kumar published a paper on “Behaviour of Magnetised Water Concrete under Different Curing Conditions”, CVR Journal of Science and Technology, Vol.12, June 2017, pp 25-29.
5. Mr. K. Vijay kiran, Asst. Prof of Civil Department published paper on “Analysis of settlement at Different Depths of Granular Pile”, in a three-day national level Indian Geotechnical Conference on “Geotechnology towards global Standards at IIT Madras”, Chennai, from 15-17 December 2016.
6. Mr. B. Ramanjaneyulu, Asst. Prof of Civil Department published paper on “A Study to Co-Relate Field and Laboratory Test Results of C- ϕ Soils”, in a three-day national level Indian Geotechnical Conference on “Geo-technology towards global Standards at IIT Madras”, Chennai, from 15-17 December 2016.
7. Mr. K.N.V Chandrasekhar, Asst. Prof of Civil Department published paper on “Aqua Search – A New Metaheuristic Modified Firefly Algorithm for Topology Optimisation of Continuum Structures”, in the journal of Offshore Structure and Technology Vol 3, No 3, December 2016.
8. Dr. M.V Seshagiri Rao, Professor and Dean of Civil Department published a paper on “Studies of Rheology, Strength and Cementing Efficiency of High Strength Grade Quaternary Blended Self-Compacting Concrete Incorporating High Reactivity Metakaolin”, in the CVR Journal of Science and Technology, Volume 11, in December 2016.

9. Dr. T. Muralidhara Rao, Professor and Head of Civil Department published a paper on “Need for Fracture Behaviour based Designer Friendly Expressions for Fracture Energy and Minimum Flexural Reinforcement”, in the CVR Journal of Science and Technology, Volume 11, December 2016.
10. Mr. P.V.V.S.S.R Krishna, Asst. Prof of Civil Department and Mr. Sreenath Mahankali, M.Tech student of Civil Department published paper on “Investigation on Effects of Nonlinear Static Procedures on the High Rise Buildings”, in the CVR Journal of Science and Technology, Volume 11, December 2016.
11. Dr. T. Muralidhara Rao, Professor and Head of Civil Department and Ms. Manasa Koppoju, M.Tech of Civil Department Student published a paper on “Fracture Parameters of Plain Concrete Beams using ANSYS”, in the CVR Journal of Science and Technology, Volume 11, December 2016.
12. Dr. T. Muralidhara Rao, N.Srikar, G.Sukesh Reddy, B.Praveen published a paper on “Ductility of Reinforced Concrete Beams”, CVR Journal of Technology and Science, 2016.
13. Dr. T. Muralidhara Rao published a paper on “High Volume Fly Ash-A Boon for Preventing Reinforcement Corrosion”, International Journal of Civil Engineering and Applications, Vol.3, No.7, June 2013, pp.52-55.
14. Dr. T. Muralidhara Rao published a paper on “Performance Evaluation and Efficiency Assessment of a Waste Water Treatment Plant–A Case Study”, International Journal of Engineering Research & Technology, Vol.2 Issue 6, June,2013, pp.1851-1855.
15. Dr. T. Muralidhara Rao published a paper on “Size Effect of Plain Concrete Beams-An Experimental Study”, International Journal of Research in Engineering and Technology, Vol.2, Issue 6, June,2013, pp.1047-1055.
16. Dr. T. Muralidhara Rao published a paper on “A Critical Comparative Study of IS: 800-2007 and IS: 800-1984”, International Journal of Civil Engineering and Technology, Vol.4, Issue 4, July-August 2013, pp.36-54.
17. Dr. T. Muralidhara Rao published a paper on “Fracture Parameters of High Strength Concrete-An Experimental Study”, Journal of Structural Engineering, Vol.35, No.6, Feb-Mar 2009, pp.397-403.
18. Dr. N. Narayana received best paper award for “Utilization of Limestone Slab Quarry rejects for the manufacture of cement” – presented at the 9th NCB International Seminar on Cement and Building Materials held from 08, Nov 2005; New Delhi.
19. Dr. N. Narayana published a paper on “Limestone Availability for Greenfield Cement Projects in India.” Indian Cement Industry Desk Book-95, (5th Edition), Bombay.
20. Dr. N. Narayana published a paper on “Computer Aided Evaluation of an Intricate Limestone Deposit – A Case Study: Cement Industry (Annual Review)”, 1991.
21. Mr. S. HariKiran published a paper on “Getting 23 Million Gallons a Day into the Ground: Preliminary Design for a Reclamation Plant's Recharge Facilities” in June 2009 at American Water Works Association, San Diego, California, USA.
22. Mr. S. HariKiran published a paper on “Selecting a Membrane Filtration System for RO Pre-Treatment: The South District Experience” at American Membrane Technology Association Conference, June 2011, Las Vegas, Nevada, USA.

23. Mr. N. Ramanjaneyulu published a paper on "Effect of packing factor on workability and mechanical properties of high strength self-compacting concrete (M70 grade) with GGBS and micro silica as filler material" Proceedings of International Conference on Emerging Trends in Civil Engineering (ICETCE-2014) during 6-8 January 2014, Hyderabad.
24. Mr. A. Venkat Reddy published a paper on "Optimization of fly ash content in different grades of magnetic water concrete" in International Journal of Research in Engineering and Technology, Volume 04, Special Issue 13, eISSN: 2319-1163 | PISSN: 2321-7308 page no 51-56.
25. Ms. A. S. Sravanthi published a paper on "Stabilization of Expansive soils using brick kiln waste" in International Journal of Applied Sciences, Engineering and Management ISSN 2320-3439, Vol. 02, No.03, May 2013, pp. 50-53.
26. Ms.G. Sharanya published a paper on "Evaluation of Rutting Characteristics on Warm Mix Asphalt with Inclusion of Fibers", JMS_V3N3_07, Oct-Dec 2015.
27. Dr. B.N. Malleshwar Rao published a paper on "Evaluation of CBR using Geosynthetics in Soil Layers" International Journal of Research in Engineering and Technology, p-ISSN:2321-7308
28. Dr. B.N. Malleshwar Rao published a paper on "Remediation of Heavy Metal Contaminated Soils" International Journal of Innovative Research in Science, Engineering and Technology, p-ISSN:2347-6710.
29. Dr. B.N. Malleshwara Rao published a paper on "Contamination Transport Modelling of Leachate at Municipal Solid Waste (MSW) Sites" International Journal of Innovative Research in Science, Engineering and Technology, p-ISSN:2347-6710
30. Dr. B.N. Malleshwara Rao published a paper on "Black Spot Identification and Audit Analysis for Heterogeneous Traffic Conditions in Hyderabad City – A Case Study" i-manager's Journal on Structural Engineering, Vol. 4 No. 3 | September - November 2015, PP 1-9, ISSN Print: 2278-7887, ISSN Online: 2320-2343.
31. Dr. B.N. Malleshwara Rao published a paper on "Rectification of Heavy Metal Contaminated Soil Using Phytoremediation Process" i-manager's Journal on Civil Engineering, Vol. 6 No. 4 | September - November 2016 PP 37-43, ISSN Print: 2231-1068, ISSN Online: 2249-0779
32. Dr. B.N. Malleshwara Rao published a paper on "GIS Based Soil Erosion Modelling for Conservation Planning of Watersheds", Indian Society for Hydraulics, 0971 -5010.
33. Dr. B.N. Malleshwara Rao published a paper on "Conservation of Electrical Power and Water Resources Management for Khindsy Lake in Central India" Indian Journal of Power and River Valley Development, ISSN: 0019-5537.
34. Dr.M.V. Seshagiri Rao published a paper on "A Comparative Study on The Stress-Strain Behaviour of Standard Grade HFRSCC under Confined and Unconfined States" International Journal of Advances in Engineering & Technology, July 2011. ISSN: 2231-1963, Vol.1, Issue 3, pp.162-170.
35. Dr.M.V. Seshagiri Rao published a paper on "Studies on Stress-Strain Behaviour of SFRSCC and GFRSCC Under Axial Compression" International Journal of Earth Sciences and Engineering, October 2011, ISSN: 0974-5904, Volume 04, No 06 SPL, pp.855-858.

36. Dr.M.V. Seshagiri Rao published a paper on “Analytical Modelling on The Stress-Strain Behaviour of Hybrid Fibre Reinforced Self Compacting Concrete” International Journal of Mathematical Sciences, Technology and Humanities (2011), ISSN: 2249-5460, pp19-24.
37. Dr.M.V. Seshagiri Rao published a paper on “Strength Enhancement of Cement Mortar Using Microorganisms - An Experimental Study” International journal of Earth sciences and Engineering, ISSN No. 0974-5904, pp:933-936 Impact factor:0.2334
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44. Dr.M.V. Seshagiri Rao published a paper on “Development and Applications of Reactive Power Concrete” Tech Mantra (Technical Magazine) –Vol. II, No.3, pp 6-16
45. Dr.M.V. Seshagiri Rao published a paper on “Behaviour of Steel Fibre Reinforced Self-Compacting Concrete and its Structural application as wall panel” ICI Journal, Vol 15, January-March 2015 No.4, pp 15-20 (Won Best paper award on Construction Techniques)
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57. M.V.S. Nishanth, S. V. Srinidhi, Ch. Yashasvi, K. N.V. Chandrasekhar "Reinforcement layout optimization of RCC Beam using Firefly algorithm" Recent Trends in Civil Engineering, Volume 7, No 2 , 2017 page 28-35.
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60. K. Sreeja, Vinaya, Md. Waheed, KNV Chandrasekhar "Topology Optimisation of Continuum structures including Drucker Prager Stress Constraints using Firefly Algorithm" Journal of Recent Activities in Architectural Sciences, Vol 2, No 2,3 (2017)
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62. Chinthapoola Sravanthi, K Rahul, G Ravikiran, KNV Chandrasekhar "Analysis of A Multi-Storied Building Using Risa 3D® Software" Journal of Recent Activities in Architectural Sciences, Vol 2, No 4, 2017.

63. Dr T Muralidhara Rao and Dr. T.D. Gunneswara Rao Submitted a paper titled "Analytical Model for Minimum Flexural Reinforcement Of RC Members-A Fracture Energy Approach", South African Journal of Institution of Civil Engineering 2017 (Under review)
64. KNV Chandrasekhar, Nss Sahithi, Dr.T Muralidhara Rao paper on "Parallel Computing To Perform Isogeometric Topology Optimisation of Continuum Structures Using Aqua Search Evolutionary Algorithm" is accepted for Journal of Recent Trends In Parallel Computing October, 2017
65. NSS Sahithi, KNV Chandrasekhar, Dr.T. Muralidhara Rao forwarded a paper titled "Isogeometric Topology Optimisation of Continuum Structures using Evolutionary Algorithms" Journal of Experimental & Applied Mechanics Volume 8, Issue 3, 2017.
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72. Reddy, K.M. and Ayothiraman, R. published a paper on "Experimental studies on behavior of single pile under combined uplift and lateral loads" Journal of Geotechnical and Geoenvironmental Engineering, ASCE. Vol-141, Issue-7.
73. Ayothiraman, R. and Reddy, K.M. published a paper on "Model experiments on pile behavior in loose-medium dense sand under combined uplift-lateral loads" Geotechnical Special Publication: GSP No. 242, ASCE, 633-643.
74. KNV Chandrasekhar, Dr.T.Muralidhara Rao published paper on "A Step by Step Illustrative Procedure to Perform Isogeometric Analysis and Find the Nodal Displacements of A Two Dimensional Plate Structure" i-manager's Journal on Structural Engineering. ISSN Print: 2278-7887 ISSN Online: 2320-2343(Volume No. 6, Issue No. 4)
75. KNV Chandrasekhar, NSS Sahithi, Dr. T. Muralidhara Rao published paper on "A Detailed Step Wise Procedure to Perform Isogeometric Analysis of a Two Dimensional Continuum Plate Structure II" Journal of Aerospace Engineering and Technology (JoAET), ISSN (Online): 2231-038X, ISSN (Print): 2348-7887.

FEW IMPORTANT PROJECTS OF B.TECH.

In Academic Year 2014-2015

- ◆ Design of post tensioned prestressed concrete Beam slab bridge deck
- ◆ Design optimization of structural elements
- ◆ A Transport policy sensitive model for mode choice to CVRCE
- ◆ Feasibility study of bus Rapid Transit system on Hyderabad Traffic
- ◆ Dynamic analysis of Multi-storeyed building on sloping ground
- ◆ Site suitability analysis using GIS

In Academic Year 2015-2016

- ◆ Fire Analysis on Reinforced concrete structure using SAP 2000
- ◆ Analysis and design of natural draft cooling tower using SAP 2000
- ◆ Influence of magnetised water on strength properties of M20 grade concrete
- ◆ Effect of Magnetised water on soil properties
- ◆ Seismic response reduction of high rise building using various energy dissipation devices
- ◆ Design and detailing of a composite bridge deck system
- ◆ Influence of different super plasticizers on self-compacting concrete
- ◆ Mode choice modelling of leisure travel for Hyderabad city
- ◆ Structural design of auditorium for CVR College of Engineering

In Academic Year 2016-2017

- ◆ Project planning, scheduling and monitoring using EVM and risk analysis techniques
- ◆ Development of Microscopic Hydraulic conductivity model for clay affected soil using variable head method
- ◆ Optimisation of steel transmission tower
- ◆ Buckling analysis of steel truss bridge
- ◆ Analysis of G+9 building by sequential failure approach using STAAD pro
- ◆ Development of best fit destination model for Hyderabad users
- ◆ Establishing relationship between CBR value and physical properties of subgrade soil
- ◆ Effect of salt solutions on compressibility of Montmorillonite
- ◆ Geometric design optimisation of village roads using MX road
- ◆ Maximization of fundamental frequency of continuum structures using model strain energy method
- ◆ Optimization layout of reinforcement for RCC structures
- ◆ Development of Macroscopic hydraulic conductivity model for sandy soil
- ◆ Accident studies and analysis using RS & GIS
- ◆ Numerical simulation & analysis of granular pile anchor foundation system
- ◆ Impact of land use changes on micro-watershed using remote sensing and GIS

FEW IMPORTANT PROJECTS OF M.TECH.

In Academic Year 2016-2017

- ◆ Topology Optimization of Continuum structures using Firefly Algorithm
- ◆ Torsional Behaviour of asymmetric buildings under Seismic loads using ETABS
- ◆ Flexural Behaviour of RC Beams Using ANSYS
- ◆ Behaviour of Magnetized Water Concrete under different curing conditions
- ◆ Fracture parameters of plain Concrete beams using ANSYS
- ◆ Response of Reinforced Concrete structural components under Blast loading
- ◆ Study on Seismic behaviour of irregular structures with and without setback
- ◆ Study on lateral stability of high rise buildings with Framed Shear Wall System and Framed Tube System
- ◆ Effect of non-linear Static analysis procedures on high rise buildings
- ◆ Long term strength studies of magnetized salt water on Concrete

CONSULTING SERVICES & MATERIAL TESTING OFFERED BY CIVIL DEPARTMENT

The department has highly qualified and well experienced faculty in different fields of Civil Engineering offering consultancy services in the areas of Structural Analysis, Design and Drawing for Buildings, Bridges and Industrial Structures, Highway and Pavement Construction, Traffic Studies, Soil Investigation, Contouring and Preparation of Layout Plans, Land Use and Land Cover applications, Design of Water Treatment Plants, Sewage Treatment Plants, Sewerage Systems, Water Distribution Systems and Canal Designs.

The various facilities and fields of consultancy are listed below:

◆ **STRUCTURAL ENGINEERING**

Structural Analysis, Design and Drawing, Design scrutiny works for Buildings, Bridges and industrial Structures, Structural audit works, Strength Tests, Material Testing, Quality Control Tests, Non-destructive Testing for any required strength.

◆ **TRANSPORTATION ENGINEERING**

Testing of any material used for Highway and Pavement Construction, Highway Geometric Design, Design of Pavements, Traffic Volume Study, Origin and Destination Study, Speed and Delay Study, Breaking Test and Accident Studies.

◆ GEOTECHNICAL ENGINEERING

Soil investigation of any site involving conducting field tests with technical reports.

Surveying (Using Total Station)

All survey works to fix Levels, Contours and Layout plans preparations etc.

◆ REMOTE SENSING AND GIS

Visual interpretations of data, Land use/ Land cover applications, Facility management and Digitization of Navigation data.

◆ ENVIRONMENTAL ENGINEERING

Design of Water Treatment Plants, Sewage Treatment Plants, Sewerage Systems, Waste-to-Energy Projects, Industrial Effluent Treatment Plants, Solid Waste Management, Desalination Plants using Reverse Osmosis System.

◆ WATER RESOURCES ENGINEERING

Water Distribution Pipe Line Design and Canal Designs.

PERFORMANCE OF GRADUATED STUDENTS

Graduation Year	Sanctioned Intake	Present strength of students	Number of students appeared for Final Exams	Number of students passed in Final Exams	Percentage pass
2017	120	117	117	104	89
2016	60	59	59	49	83
2015	60	54	54	51	94

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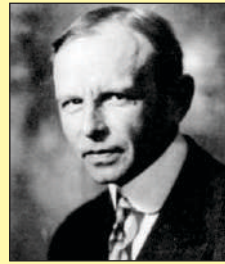
EMINENT SCIENTISTS



STEPHEN TIMOSHENKO

December 22, 1878 – May 29, 1972

Father of Modern Engineering Mechanics.



KARLVON TERZAGHI

October 2, 1883 – October 25, 1963

Father of Soil Mechanics

ROBERT HOOK

July 18, 1635 — March 3, 1703

Father of Hooke's Law



ARTHUR CASAGRANDE

August 28, 1902 - September 6, 1981

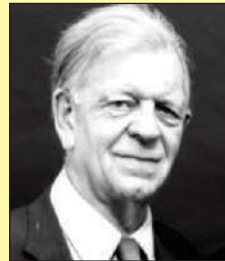
Father of A-Line



JOSEPH ASPDIN

December, 1778 – 20 March, 1855.

Father of Portland Cement.



SIR A. WESTLEY SKEMPTON

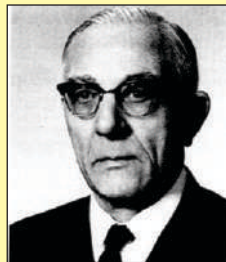
4 June 1914 - 9 August 2001

Eminent Soil Mechanics Expert

DUFF A. ABRAMS

1880 – 1965

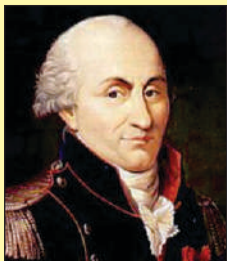
Father of Abram's Law



RALPH BRAZELTON PECK

June 23, 1912 - February 18, 2008

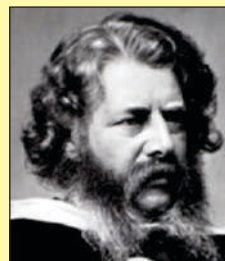
Eminent Soil Mechanics Expert



THOMAS YOUNG

13 June 1773 – 10 May 1829

Father of Young's Modulus



WILLIAM JOHN RANKINE

July 1820 – December 1872

Eminent expert in Geotechnics

CHARLES-AUGUSTIN DE COULOMB

14 June 1736 – 23 August 1806

Father of Coulomb's Law



WILLIAM SMITH

23 March 1769 – 28 August 1839

Father of English Geology





FACULTY OF CIVIL ENGINEERING