

Dr. M.N. Shesha Prakash

Dr. M.N. Shesha Prakash.

Vice Principal &

Professor & Head of Civil Engineering
Vidya Vikas Institute of Engineering &
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- Date of Birth** : 31st of March 1961
- Educational Qualifications** : Ph.D., (Civil Engineering) (1992-1994) (Completed in record 3 years at IISc)
M.E., (Hydraulics and Water Resources) (1983-1985) I Rank & Gold Medal
B.E., (Civil) (1977-1983) Distinction with 81%
PG Diploma in Information Technology (PGDIT) (2001-02) Distinction
M.Sc. (Information Technology) from KSOU (2002-03) Distinction
Diploma in Management from IGNOU (2006-2007)
PG-Diploma in Management from IGNOU (2007-08) (Human Resources)
PGD HRM (IGNOU) (2007-08) (Human Resources) (Results Awaited)
MBA (IGNOU) (2006-09) (Human Resources)

- Teaching and Research Experience** : **29 Years**
- | | |
|-------------------------------|---|
| July 2010 to till Date | Vice Principal & Professor & Head of Civil Engineering |
| July 98 to till Date | Professor of Civil Engineering |
| October 03 till Date | Head, Centre for Continuing Education Programmes |
| March 99 to August 02 | Head (i/c), Centre for Human Resources Development |
| May 98 to August 02 | Professor of Placement & Training |
| October 89 to June 98 | Asst. Prof. in J.N.N.C.E. Shimoga. |
| January 92 to Mar 95 | Research Scholar at Indian Institute of Science, Bangalore |
| August 86 to Oct. 89 | Lecturer in J.N.N.C.E. Shimoga |
| July 85 to July 86 | Lecturer in N.I.E. Mysore. |
| October 84 to June 85 | Lecturer in M.V.J.I.T. Bangalore. |
| October 2000 | <i>PhD guide of Kuvempu University and successfully guided one Ph.D. candidate and degree awarded within a record 3 years (First Ph.D. Degree in Engineering Category awarded in Kuvempu University)</i>
<i>Guiding Five Candidates for their Ph.D. in Fluid Mechanics, Structural and Traffic Engineering Fields.</i> |
| March 2002 | <i>PhD guide at Manipal Academy of Higher Education in the fields of Software development, Environmental Engineering, Transportation Engineering and Fluid Mechanics.</i> |
| December 2009 | <i>MBA guide at Indira Gandhi National Open University</i> |

Earlier worked at J.N.N. College of Engineering, Shimoga, from Aug 1986 to June 2010

- **Professor** of Civil Engineering &
- **Head, Centre for Continuing Education Programmes** (including Government Sponsored Programmes of Engineering Staff College, KRS).
- **Dean (Engineering)**, NES Academy of Research & Development
- **Member**
 - **Local Inspection (VTU Affiliation) Committee** by VTU, Belgaum, for inspection for permanent affiliation of VTU affiliated Engineering Colleges, since 2004
 - **Board of Examiners, V.T.U., Belgaum – 2008-2009 and 2013-14**
 - **Board of Studies, V.T.U., Belgaum – 2013-2016**
 - **Ph.D. Registration committee, VTU, Belgaum – 2013 – 14.**
 - **Civil Engineering Board of Examiners, S.J.College of Engineering, Mysore (Since 2011)**
 - **Civil Engineering Board of Examiners, National Institute of Engineering, Mysore (Since 2011)**
 - **Environmental Engineering Board of Examiners, S.J.College of Engineering, Mysore (since 2009)**
 - **Combined UG & PG Board of Studies, Kuvempu University, Shimoga (since 2004)**
 - **Board of studies (Civil Engineering), PES College of Engineering, Mandya as VTU Nominee (2012-15)**
 - **Governing Council, Vidya Vikas Institute of Engineering and Technology, Mysore**
- **Sponsored Projects**
 - Principal Investigator *Eco-Friendly Building Blocks, AICTE Research Project for Rs. 3Lakh(2000-02)*
 - Principal Investigator *Simple and Accurate Flow measuring Devices in Agricultural and Industrial Fields, VTU financed Research and Development Project for Rs. 14 Lakh. (Present)*

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➤ Ph.D. Scholars

➤ Awarded:

- *Kuvempu University* within 3 years-2001-2003 (*Fluid Mechanics* -Flow measurement)
- *Kuvempu University*, 2006-10 (*Structural Engineering*-Ferrocement)
- *Kuvempu University*, 2006-2010 (*Traffic Engineering*)
- *Kuvempu University*, 2006-12 (*Structural Engineering*-Flexural effects in Ferrocement)
- *Kuvempu University*, 2006-2013 (*Hydrology & Water Resources Engineering*)

➤ Work Completed

- *Manipal Academy for Higher Education*, Since 2009 (*Fluid Mechanics* -Flow measurement)

➤ Registered

- *Visvesvaraya Technological University*, Since 2009 (*Environmental Fluid Mechanics*)
- *Visvesvaraya Technological University*, Since 2011 (*Structural Engineering- Non-Linear Finite Element Analysis*)

➤ MBA

- **Two MBA** Candidates completed MBA Project in Indira Gandhi National Open University, New Delhi.

➤ Visiting Professor, STJ Institute of Technology, Ranebennur. (2000-01)

- **Subject Matter Expert** (SME) for VTU-EDUSAT satellite based Programmes.

- Fluid Mechanics-2006
- Hydraulics and Hydraulic Machines-2007
- Fluid Mechanics-2011

➤ Resource Person

- **Research Methodologies and LaTeX**

- **NBA Accreditation**

➤ Examiner/Valuer & Paper setter

- B.Sc, PG Diploma and M.Sc. (Information Technology) courses for Karnataka State Open University.
- for SBI, SBM & other Financial Institutions.
- **Ph.D. and M.Tech** Paper setter and Examiner for VTU, Kuvempu and Bangalore Universities.

➤ Review Committee Member

- *American Concrete Institute*, Country Club Dr. Farmington Hills, MI, USA

➤ *Earth Science Research, Toronto, ON., M3J 3H7, Canada*

Journal of International Association of Scientific Innovation and Research (IASIR), (An Association Unifying the Sciences, Engineering, and Applied Research) Georgia-31008, United States.

Awards, Recognitions and Scholarships

1. **BOOK PARADISE AWARDS 2006 in the category of GRADUATE among teachers of Karnataka.**
2. 1992-94 Research fellowship of Indian Institute of Science during PhD.
3. 1983-85 National scholarship of Govt. of India during M.E.
4. Obtained I Rank and Gold Medal in M.E., for the University of Mysore.
5. Awarded a **Research & Development** Project from *All India Council for Technical Education* entitled **Eco-Friendly Building Blocks** and received grants of Rs. **3 Lakh** during 2000-2002 and completed the same.
6. Awarded a **Research & Development** Project from *Visvesvaraya Technological University* entitled **Simple and Accurate Flow Measuring Devices for Agricultural and Industrial Fields** and received grants of Rs. **14 Lakh** during 2010-2012.
7. **Best Paper Award** for **Flexible Technical Education-An Overview** presented at **One day seminar on Implementation strategies of flexible system in Technical Education and Overview** held at P.E.S. Institute of Technology, Bangalore on 8th Feb. 1999.
8. Recognised as a Guide for guiding PhD and MSc degrees by Research from Kuvempu University in Civil Engineering.
9. Recognised as a Guide for guiding PhD degrees by Research from Manipal Academy of Higher Education in the area of Fluid Mechanics, Flow Measurements, Environmental Fluid Mechanics, Environmental Friendly Building materials and Computer applications, software development.
10. Recognised as a Guide for guiding **MBA** degrees by Indira Gandhi National Open University.
11. Best Innovative Practitioner award recognized by Mission10x Portal from Wipro for practicing innovative teaching-learning process in teaching.
12. Have undergone 5day training workshop for innovative teaching technologies from Wipro Technologies
13. Have undergone 2day advanced training workshop for innovative teaching technologies from Wipro Technologies
14. Have undergone 2day advanced Leadership training workshop from Wipro Technologies

Subjects Taught at

Under Graduate level

Engg. Mechanics, Strength of Materials, Fluid Mechanics I & II, Hydrology and water resources Engineering, Irrigation I & II, Irrigation and Bridges Drawing, Design of Irrigation Structures, Estimation specification, Survey I & II, Civil Engg. Drawing, Applications of Computer Programming to Civil Engineering Problems, Numerical Methods and Computer Programming, FORTRAN and C Computer Prog. and lab, C++, VB, VC++, OOPS, Operation Research, Computer Graphics and CAD Lab, Concrete Lab.

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Books Written

1. *Reference Book for CAD Laboratory-C, C-Graphics and Excel*, University Science Press, New Delhi (2006)
2. *Elements of Civil Engineering and Engineering Mechanics*, Published by PHI Learning Pvt Ltd, New Delhi (2009)
3. *Text Book of Mechanics of Materials*. Published by PHI Learning Pvt Ltd, New Delhi (2010)
4. *Experiments in Hydraulics and Hydraulic Machineries: Theory and Procedures*. Published by PHI Learning Pvt Ltd, New Delhi (2010)
5. *Fluid Mechanics* (Under Review)
6. *Hydraulics and Hydraulic Machines*(Under Review)
7. *Structural Analysis*(Under Review)
8. *Design and Drawing of Irrigation and hydraulic Structures* (Under Review)

Project Works Undertaken as a part of academic curriculum

Undergraduate level: “*Design of some component parts of a Hydro-electric plant*”

Post-graduate level: “*Design of a proportional three-halves power weir with a parabolic base*”:

Proportional weir used in flow Measurements is of relatively recent origin, which have practical application in the design of de-silting chambers in sewerage treatment plants, as automatic sampling devices in dosing operations in the chemical industries and as simple flow measuring device in Irrigation. A new type of proportional weir to give the same head-discharge relationship as that of a rectangular weir with advantage over the conventional rectangular weir has been designed, experimented and analysed.

Doctoral level: “*Some studies on linear proportional weirs*”:

The exact proportional weirs have complex shape rendering it to be difficult to fabricate and has not been of much practical use even though it has more practical significance. Hence geometrically simple weirs with linear, logarithmic, quadratic and exponential head-discharge relationships has been proposed with the development of a new theory and numerical Optimisation procedure for which a computer soft-ware in C-language has been developed. The designed weirs, which have been experimented elaborately, have various applications, particular in **Irrigation canals**. A new **Algebraic Optimisation Procedure** has been developed which may have a wider application in varied fields.

Area of Research Interest:

Open channels, Simple Measuring Flumes, Ground water Engineering, Environmental Engineering, Eco-friendly building materials, Computer applications to civil engineering, Software development, Ferro-cement, Fibre-reinforced concrete, Reuse of Industrial waste and recycling, Masonry and concrete arches, Applications of Mathematics and optimization in Computer science and related field, Software Development, etc.

Membership of Professional Bodies (10) (Appendix 1)

Computer Literacy

Computer Languages : FORTRAN, C, C++, VB, VC++, JAVA

Computer Skills

Operating Systems : UNIX, VMS, MS-DOS, Windows all versions up to date

Computer Systems : IBM RISC 6000, CD4360 and VAX8810, CYBER

Computer Packages : Word-Star 4,5,6,7, Chi-writer, Windows 2000, MS Office 2000, MS Office XP, AutoCAD, X- Windows, LaTeX , VTeX, Build Arch, 3D Home Architect, etc.

Statistical / Database Packages : Mathematica, MathCAD, MatLab-5, CoStat, Lotus 123, MS Excel, MS Access

Computer Graphics Packages : Grapher, CoPlot, CoDraw, MS Graph

Consultancy Work:

1. Testing of all the Building materials like Cement, Tiles, Bricks, CC Cubes etc.
2. Soil Testing for the Safe Bearing Capacity of the Soil.
3. Survey works like Block Surveying, Alignment surveying for huge fencing, Quantity surveying to find out the route length of Davangere-Shimoga High tension feeder line, etc.
4. Prepared Plans and Estimates for Rotary Group Housing Projects and Hudco Projects.
5. Design and implementation of Pipe net-works for rural and urban areas and design of pumps.
6. Flow measurement projects for Hydro and Mini Hydro-electric projects.
7. Project preparation for Mini-Hydro-Electric Projects and Micro Hydro-Electric Plant design.
8. Irrigation Management and Water Shed Management
9. Have developed Softwares for
 - i) Students Appraisal in Engineering Colleges,
 - ii) Students' status report to be sent to parents,
 - iii) Civil Engineering Consultancy Software
 - iv) Wind-mast design and analysis software
 - v) Rate Analysis Software
 - vi) R.C.C. Design software
 - vii) Approximate Estimation of a Building Software
 - viii) Design & Drawing of Hydraulic Structures software

Organizing Works (54) (Appendix 2)

Workshops, Seminars, Conferences and Summer / Winter Schools attended (23) (Appendix 3)

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Papers Published: (Appendix 4)

<p>Total: 198 Published: 174 and Communicated: 24 International Journals (20) National Journals (18) Conferences, Symposiums and Seminars International (25) and National (111) Communicated (24)</p>	<p><u>Hydraulics and Fluid Mechanics Engineering (77)</u> <u>Structural Engineering and Concrete Technology (34)</u> <u>Environmental Engineering (25)</u> <u>Transportation and Traffic Engineering (13)</u> <u>Irrigation Engineering and Water Management (19)</u> <u>Education and other General Topics (09)</u> <u>Management (20)</u> <u>Geotechnical Engineering (01)</u></p>
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Invited Lectures and other distinctions including Projects undertaken (51) (Appendix 5)

Personal:	
Spouse	Dr. Gayathri Prakash, MBBS, MSCP, Practicing Medical Doctor and Psychiatric counsellor since 25 years
Daughter	Aradhana M Prakash, B.E. (Electronics and Communication Engineering) & MTech (IT) at NIE. Presently working for NetAPP.
Father	Late Sri. M.S. Nagaraja Rao, Retired Assistant Divisional Manager, LIC of India
Mother	Smt. D.R. Gowramma, Retired Government School teacher

Appendix 1

Membership of Professional Bodies

1. Life Fellow of Institution of Engineers (India)-F 108246/5
2. Life Member of Indian Society for Technical Education-LM 1801
3. Life Member of Indian Standard Institute-LM 3869
4. Life Fellow of Indian Society for Hydraulics-77
5. Life Member of American Society for Civil Engineers-IS-LM 764
6. Member of International Association for Hydraulics Research-M7169
7. Honourary Executive Council Member of Indian Society of Engineers and Technicians.
8. Life Fellow of Indian Institute of Valuers-FIV 12371
9. Life Fellow of Indian Association of Hydrologists, Roorkee-LM 163
10. Life Fellow member of Association of Consulting Civil Engineers – F.M.-3012

Appendix 2

Organizing Works

1. Organised a One Day State level Seminar on “**Recent Advances in Civil Engineering Practices**,” Sponsored by Indian Society for Technical Education, New Delhi at J.N.N. College of Engineering, Shimoga on 24th of December, 1998 as **Coordinator**.
2. Organised the One Day Refresher Course “**Quality Control & Monitoring in Civil Engineering**” Workshop at J.N.N. College of Engineering, Shimoga on 22nd of November, 1997 as **Organising Secretary**.
3. **Secretary cum Treasurer of Indian Society for Technical Education JNNCE Chapter (1998-2003)** and has been arranging Technical Lectures and short term courses on behalf of ISTE. Got best ISTE Chapter Award for the year 1999-2000 for overall performance and conducting maximum number of programs.
4. Presently Faculty advisor to **Indian Society for Technical Education JNNCE Students Chapter** and has been arranging Technical Lectures and short term courses.
5. **Chairman** of Timetable Committee for the College Organising and maintaining the **Entire** Time Table of the College of all the Departments during 1995-2004.
6. **Deputy Chairman of Library committee since 1994**.
7. As **District Coordinator**, Organised the **Training of Mason’s Programme and Awareness Programme** during the **Karnataka Nirmala Grama Yojana** Project, Sponsored by **UNICEF** and **Govt. of Karnataka** for which JNNCE was the Nodal Centre.
8. Organising Computer Course classes for the benefit of students and faculty of the college and teaching them about software packages.
9. Two day Career Development Programme conducted for students during July 18th and 19th, 1998.
10. Organised a Two-week Short-term Course on **AutoCAD** from ISTE-JNNCE Chapter from August 6 to August 20 1998.
11. Organised and taught a Three-week Short-term Course on **Office Documentation** from ISTE-JNNCE Chapter from August 27 to September 18 1998
12. Organised and taught a Two-week Short-term Course on **Statistics and Graphics Software** from ISTE-JNNCE Chapter from March 1, 1999 to March 15 1999.
13. Organised and taught a One-week Continuing Education Course on **Computer Applications in Civil Engineering**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from June 21 to 25, 1999.
14. Organised and taught a One-week Continuing Education Course on **Office Automation** Engineering Staff Training College, Govt. of Karnataka to Engineers of GOK, from November 15 to 20, 1999.
15. **Organised and taught Internet, Email, Outlook Express and FrontPage Editor** 2-week Short-term course, sponsored by ISTE and CHR-D-JNNCE held during August 16th to 30th 2000 for staff of our college.
16. Organised and taught a One-week Continuing Education Course on **Office Automation-PC Module** Engineering Staff College, Govt. of Karnataka to Engineers of GOK, from Feb 12 to 16, 2001.
17. **Organised and taught Internet, Email, Outlook Express and FrontPage Editor** 3-week Short-term course, sponsored by ISTE, New-Delhi and CHR-D-JNNCE held during June 11th to 30th 2001 for staff of Govt. Polytechnic and our college.
18. **Organised and taught Software development using Visual Basic** 2-week Short-term course, sponsored by ISTE, New-Delhi and Centre for Continuing Education held during 16th to 27th February 2004 for Faculty of Engineering colleges.
19. **Organised Recent trends in Image Processing** 1-week Short-term course, sponsored by ISTE, New-Delhi and Centre for Continuing Education held during 1st to 5th March 2004 for Faculty of Engineering colleges

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20. *Organised Embedded Controllers*, Two Week Short-term training programmes for Faculty from Engineering colleges and Polytechnics during 12th to 24th July, 2004, sponsored by ISTE, New Delhi, Karnataka Section and CCTEK/DTE, Bangalore.
21. *Organised Office Automation* Short-term training program for Office employees from Aug 23rd to 13th Oct, 2004 including Windows, MS Word, MS Excel, MS Access, MS Outlook and Scheduler and Internet Browsing.
22. Organised and taught a One-week Continuing Education Course on *Low cost Housing*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Aug 22 to 26, 2005.
23. *Organised Statistical Modelling for Engineers and Researchers* 2-week Short-term course, sponsored by ISTE, New-Delhi and Centre for Continuing Education held during 9th to 20th January 2006 for Faculty of Engineering colleges
24. Organised and taught a One-week Continuing Education Course on *Design and Construction of Bridges*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Jan 09 to 13, 2006.
25. Organised and taught a One-week Continuing Education Course on *AutoCAD*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from July 18 to 22, 2006.
26. Organised and taught a One-week Continuing Education Course on *Recent Advances in Civil Engineering*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Aug 08 to 11, 2006.
27. *Organised English Communication Skills* 1-week Short-term course, held during 8th to 12th August 2006 for Faculty of our college.
28. Organised and taught in Training Programme on *STAD-PRO* conducted from 8th Sept to 14th Nov, 2006 for the Civil Engineering Students.
29. Organised and taught in Training Programme on *AutoCAD* conducted from 8th Sept to 14th Nov, 2006 for the Civil Engineering Students.
30. Organised and taught a One-week Continuing Education Course on *Quality Control and Monitoring in Civil Engineering*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Oct 03 to 07, 2006.
31. Organised and taught a One-week Continuing Education Course on *Internet, Email, Outlook Express and Frontpage Editor*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Dec 11 to 15, 2006.
32. Organised and taught a One-week Continuing Education Course on *Design and Construction of Bridges*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Feb 01 to 05, 2007.
33. Organised and taught a One-week Continuing Education Course on *AutoCAD*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from July 16 to 20, 2007.
34. Organised and taught a One-week Continuing Education Course on *Recent Advances in Civil Engineering*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Aug 27 to 31, 2007.
35. Organised and taught a One-week Continuing Education Course on *Office Automation including MS Excel and MS Word*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Oct 15 to 19, 2007.
36. Organised and taught a One-week Continuing Education Course on *Internet, Email, Outlook Express and Frontpage Editor*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Dec 03 to 07, 2007.
37. Organised and taught a One-week Continuing Education Course on *Teacher Effectiveness*, at Girimaji Rajagopal National Institute of Management, J.N.N. College of Engineering, for Govt. for Engineering college teachers, from Jan 21 to 25, 2008.
38. Organised and taught a One-week Continuing Education Course on *Internet, Email, Outlook Express and Frontpage Editor*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from June 23 to 27, 2008.
39. Organised and taught a One-week Continuing Education Course on *STAAD.Pro*, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from June 30 to July 04, 2008.

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40. Organised and taught a One-week Continuing Education Course on **Advanced MS Excel**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from July 28 to Aug 01, 2008.
41. Organised and taught a One-week Continuing Education Course on **Recent Advances in Civil Engineering**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Aug 18 to 22, 2008.
42. Organised and taught a One-week Continuing Education Course on **AutoCAD**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Oct 13 to 17, 2008.
43. Organised and taught a One-week Continuing Education Course on **AutoCAD**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from May 18 to 22, 2009.
44. Organised and taught a One-week Continuing Education Course on **Advanced MS Excel**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from June 15 to 19, 2009.
45. Organised and taught a One-week Continuing Education Course on **Office Automation including MS Word and MS Excel**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from July 20 to 24, 2009.
46. Organised and taught a One-week Continuing Education Course on **STAAD.Pro**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Sept 07 to 11, 2009.
47. Organised and taught a One-week Continuing Education Course on **Internet, Email and Outlook Express**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Oct 26 to 30, 2009.
48. Organised and taught a One-week Continuing Education Course on **Advanced MS Excel**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Dec 23 to 25, 2009.
49. Organised and taught a One-week Continuing Education Course on **AutoCAD**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from Feb 1 to 5, 2010.
50. Organised and taught a One-week Continuing Education Course on **AutoCAD**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from June 7 to 11, 2010.
51. Organised and taught a One-week Continuing Education Course on **Computer Applications in Civil Engineering**, at J.N.N. College of Engineering, for Govt. of Karnataka Engineers sponsored by Engineering Staff Training College, Govt. of Karnataka, from June 21 to 25, 2010.
52. Organised National Conference on **Recent Developments in Civil Engineering** during April 7th and 8th, 2011 at Vidya Vikas Institute of Engineering and Technology, Mysore
53. Organised Faculty Development Programme on **Hydraulic structures and Irrigation Design-Drawing** for faculty of Civil Engineering affiliated to Visvesvaraya Technological University, Belgaum on 30th March 2013.
54. **Short-term Training Program on Finite Element Analysis of Structural Systems** held at Vidya Vikas Institute of Engineering and Technology, during July 23-30, 2013

Appendix 3

Workshops, Seminars, Conferences and Summer / Winter Schools attended

1. **National Symposium on Structural Mechanics**, Organised by Civil Engineering Department, **Indian Institute of Science**, Bangalore, during 27-28 June 1994.
2. Workshop on **Strategic Planning and Institutional Development**, sponsored by **Indian Society for Technical Education (ISTE)**, New Delhi, held at J.N.N. College of Engineering, Shimoga during 17-19th of August, 1995.
3. Workshop on **Needs of Short term courses in Civil Engineering** sponsored by **AICTE** and Conducted by **Indian Institute of Science**, Bangalore, on 21st of Jan. 1996, held at BVB College of Engineering, Hubli.
4. Workshop on **Quality in Action** sponsored by Rotary Club of Shimoga held on 17.11.1996
5. Workshop on **Role of Natural Resources Data Management Service (NRDMS) in District Centers**, sponsored by District NRDMS Centre at Shimoga on 16-10-1996
6. **Cost Effective Rural Sanitation** at Workshop on **Cost effective Housing Technologies** held at JNNCE during 16.01.1997 to 18.01.1997, sponsored by Nirmiti Kendra, Shimoga and KARNIK, Bangalore.

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7. **Building Failures-Causes, Remedies and Rehabilitation** Workshop at J.N.N. College of Engineering, Shimoga on 13th and 14th of September 1997.
8. **Quality Control & Monitoring in Civil Engineering** Workshop at J.N.N. College of Engineering, Shimoga Nov 22 97
9. **National Seminar on Geotechnic Engineering**, held at Indian Institute of Science, **Bangalore (India)** during July '97
10. **Programming in C Language**, Two Week AICTE-ISTE short term course conducted at JNNCE during April-June '97
11. **Training Programme for Engineers in Construction Methods**, under Karnataka Integrated Rural Water Supply and Environmental Sanitation Project (World Bank assisted) held at **Jawaharlal Nehru National College of Engineering, Shimoga** from 17-3-1998 to 19-3-1998
12. **Remote Sensing and GIS Applications in Natural Resources Management**, held at Sahyadri College, Shimoga sponsored by Kuvempu University and Department of Applied Geology, Sahyadri College on 25th March 1998
13. National Seminar on **Proportional Weirs and Division of Flows** held at Indian Institute of Science, Bangalore July 22 98
14. AICTE –ISTE Sponsored Short-term Course on **AutoCAD** from ISTE-JNNCE Chapter from August 6 to August 20 1998.
15. AICTE –ISTE Sponsored Three-week Short-term Course on **Office Documentation** from ISTE-JNNCE Chapter from August 27 to September 18 1998
16. Curriculum Development Workshop on **Application of MATLAB for Engineering Education** from 15-19, Feb. 1999, Organised by Centre for Continuing Education, Indian Institute of Science, Bangalore.
17. AICTE –ISTE Sponsored Two-week Short-term Course on **Statistics and Graphics Software** from ISTE-JNNCE Chapter from March-1 to March-15 1999.
18. AICTE Sponsored Two days National workshop on **Rain water Harvesting (Urban and Rural solutions)** held at P.E.S. College of Engineering, Mandya during 13-14 Oct. 2003.
19. **Consultative Workshop to Prepare Syllabus for M.Sc/M.Tech courses in Earth Science and Resource Management and Remote Sensing/Geo-informatics**, as a **Subject Expert**, organised by the Dept. of Applied Geology, Kuvempu University, Shimoga on 06-04-2005.
20. **REMOTE SENSING AND GIS from 02-01-2007 TO 06-01-2007 conducted by the Department Of Post Graduate Studies and Research in Applied Geology, Kuvempu University, Jnanasahyadri, Shankaraghatta, Shimoga District –577 451**
21. **Mission10x-Workshop** conducted by **WIPRO Technologies**, on **Collaborative Learning/Innovative Teaching Techniques** from 09th to 13th August, 2010.
22. **Trainers Training Programme for National Board of Accreditation**, held at V.T.U. Regional Centre, Mysore from October 1-3, 2013
23. **Trainers Training Programme for Research Methodologies and LaTeX** held at V.T.U. Regional Centre, Mysore from October 7-8, 2013

Appendix 4

Publications

International Journals

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136. ***Current Research Areas in Civil and Natural Resources Engineering – An Overview***, Proc. of National Conference on Advances in Civil Engineering (ACE-08), held during Mar. 9th to 10th 2008 at Anjuman Engineering College, Bhatkal, Karnataka pp 10-13.
137. ***Research in Engineering: Writing up Research Method and Research Design***, Proc. of National Conference on Advances in Civil Engineering (ACE-08), held during Mar. 9th to 10th 2008 at Anjuman Engineering College, Bhatkal, Karnataka pp 18-21.
138. ***Evaluation of composite efficiency of cement mortar and concrete by Non-Destructive testing***, Proc. of National Conference on Advances in Civil Engineering (ACE-08), held during Mar. 9th to 10th 2008 at Anjuman Engineering College, Bhatkal, Karnataka
139. ***Behaviour of Light-weight Ferrocement under axial tension***. Proc. of National Conference in Recent Advances in Structural Engineering (RASE-08), held on April. 4th 2008 at JNTU College of Engineering, Ananthapur, Andra Pradesh. Pp 46-49.
140. ***Effect of lane-width and roughness on capacity of two-lane highway under mixed traffic conditions***. Proc. of National Conference in Recent Advances in Civil Engineering held on March. 28th 2008 at Maharashtra Institute of Technology, Pune, Maharashtra, pp 133-138

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141. ***Pavement Behaviour and Management Techniques of a High-Way: A Case Study***. Proc. of National Conference in Recent Advances in Civil Engineering, held on March. 28th 2008 at Maharashtra Institute of Technology, Pune, Maharashtra pp 139-142
142. ***Design of flexible pavement in expansive soil A case study***, Proc. of National Conference in Recent Advances in Civil Engineering, held on March. 28th 2008 at Maharashtra Institute of Technology, Pune, Maharashtra pp 47-50.
143. ***Meritocracy versus Reservation Quota*** Proc. of National Seminar on *The current economic crisis & the Transformational Agenda for Business Schools*, held at Department of Management Studies, ***Girimaji Rajagopal National Institute of Management***, Shimoga, held during 10th & 11th October, 2009.
144. ***Merit and Reservation based Quot***, Proc. of National Seminar on *The current economic crisis & the Transformational Agenda for Business Schools*, held at Department of Management Studies, ***Girimaji Rajagopal National Institute of Management***, Shimoga, held during 10th & 11th October, 2009.
145. ***Special Linear Proportional Weirs***, Proc. of National Conference on Hydraulics and Water resources, Coastal and Environmental Engineering, held at CWPRS and sponsored by Indian Society for Hydraulics, Pune from Dec 17th to 18th 2009, 428:439.
146. ***Experimental Studies on Light weight Ferrocement under Axial Tension***, Proc. of National Conference on ***Innovation in Civil Engineering – ICE’10*** held at Kumaraguru College of Technology, Coimbatore on 20th April 2010. pp 22-1 to 22-8.
147. ***Experimental studies on comparison of flexural strength of High strength reinforced concrete beams and High strength steel fibre reinforced concrete beams***, Proc. of National Conference on ***Innovation in Civil Engineering – ICE’10*** held at Kumaraguru College of Technology, Coimbatore on 20th April 2010. pp 23-1 to 23-8.
148. ***Professional approach in Purchase and Maintenance of Flats/Buildings***, Proc. of National Conference on ***Innovation in Civil Engineering – ICE’10*** held at Kumaraguru College of Technology, Coimbatore on 20th April 2010. pp 64-1 to 64-4.
149. ***Experimental Studies on the Optimisation of a Bio-Sand Filter***, Proc. of National Conference on ***Innovation in Civil Engineering – ICE’10*** held at Kumaraguru College of Technology, Coimbatore on 20th April 2010. pp 65-1 to 65-8.
150. ***Analysis of flow through Circular Channels***, Proc. of National Conference on ***Innovation in Civil Engineering – ICE’10*** held at Kumaraguru College of Technology, Coimbatore on 20th April 2010. pp 66-1 to 66-7.
151. ***Flow comparison between inclined rectangular and triangular weirs***, Proc. of National Conference on ***Innovation in Civil Engineering – ICE’10*** held at Kumaraguru College of Technology, Coimbatore on 20th April 2010. pp 67-1 to 67-8.
152. ***Flow Modelling over Inclined Rectangular Weir: A New Approach***, Proc. of National Conference on ***Hydraulics, Water Resources, Costal and Environmental Engineering HYDRO 2010***, held at MM University, Mullana (Ambala), Haryana during 16-17 Dec, 2010.
153. ***Flow Modelling over Inclined Triangular Weir: A New Approach***, Proc. of National Conference on ***National conference on Emerging Trends in Engineering, Technology and Architecture*** held during 28th & 29th January, 2011 at D Y Patil College of Engineering and Technology, Kohlapur.
154. ***Study of progress of monsoon over the Davanagere region (Karnataka)***, Proc. of National Conference on ***National conference on Emerging Trends in Engineering, Technology and Architecture*** held during 28th & 29th January, 2011 at D Y Patil College of Engineering and Technology, Kohlapur.
155. ***Irrigation water distribution system at Tail end of Bhadra right bank atchkat region: A case study***, Proc. of National Conference on ***National conference on Emerging Trends in Engineering, Technology and Architecture*** held during 28th & 29th January, 2011 at D Y Patil College of Engineering and Technology, Kohlapur.
156. ***Inclined Trapezoidal Weirs: Flow modeling***, Proc. of ***1st National conference on Advances in Metrology*** held during 16th to 18th Feb, 2011 at Central Manufacturing Technology Institute, Karnataka, India.
157. ***Rainfall Characteristics over Bhadra Reservoir Irrigated Region***, Proc. of National Conference on ***National conference on Civil Engineering*** to be held during 3rd to 5th March, 2011 at Pravara Rural Engineering College, Maharashtra
158. ***Error and Afflux analysis for flow over inclined triangular weirs***, Proc. of National Conference on ***National conference on Civil Engineering*** to be held during 3rd to 5th March, 2011 at Pravara Rural Engineering College, Maharashtra., pp-18-27
159. ***Excess usage of Chemical Fertilizers leading to Health Hazards and Climate changes at Davangere Region-A Case Study***, Proc. of National Conference on ***National conference on Global Climate Change: Perspectives and Challenges (NCGCC-2011)*** held during 23rd to 24th March, 2011 at Dept. of PG Studies and Research in Environmental Science, Kuvempu university, Jnana Sahyadri, Shankarghatta-577 451, Shimoga, Karnataka
160. ***Study on Climate changes at Davangere District Irrigated area under Bhadra Reservoir by using Climatological Parameters***, Proc. of National Conference on ***National conference on Global Climate Change: Perspectives and Challenges (NCGCC-2011)*** held during 23rd to 24th March, 2011 at Dept. of PG Studies and Research in Environmental Science, Kuvempu university, Jnana Sahyadri, Shankarghatta-577 451, Shimoga, Karnataka
161. ***Climate Change Study due to change of Meteorological Parameters at Shimoga Region***, Proc. of National Conference on ***National conference on Global Climate Change: Perspectives and Challenges (NCGCC-2011)*** held during 23rd to 24th March,

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2011 at Dept. of PG Studies and Research in Environmental Science, Kuvempu university, Jnana Sahyadri, Shankarghatta-577 451, Shimoga, Karnataka

162. ***Smart Materials and Structures***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-20
163. ***Earthquake Resistance of Structures Using Dampers***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-21
164. ***Seismic Response Control of Buildings Using Magnetorheological Damper***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-22
165. ***Soil Classification Studies over Bhadra-command Atchkat Area***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-23
166. ***Soil Fertility Status Study of Irrigated Area under Bhadra Right Bank Canal-A Case Study***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-24
167. ***Studies on Light Weight Ferrocement [BFS] In Axial Tension under Slow Cyclic Loading***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-44
168. ***Studies on Light Weight Ferrocement [BFS] In Flexure under Monotonic Loading***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-45
169. ***Experimental Investigations for Flow through Stepped Horizontal Rectangular Slots***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-46
170. ***Experimental Investigations for Flow through Stepped Vertical Orifice***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-47
171. ***Analysis of Flow through Stepped Weir***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-48
172. ***Comparison of Flow through Rectangular Weir with Positive And Negative Inclinations***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-49
173. ***Flow Analysis of For Triangular Weir with Positive and Negative Inclinations***, Proc. of National Conference on Recent Advances in Civil Engineering, held in Vidya Vikas Institute of Engineering and Technology, Mysore during 8th-9th, April, 2011, Paper id-50
174. ***Chemical Fertilizers Excess Usage Effects At Right Bank Bhadra Canal Command Area (Karnataka) -A Case Study***, Proc. of National Conference on Recent Trends in Engineering and Technology (NCRTE 2013)" held on 15th March, 2013 at Agni College of Technology, Chennai.

Communicated

175. *Optimisation of the properties of a Chimney Weir with a New Approach.*
176. *Comprehensive Transportation plan for an Urban City: A Case Study.*
177. *Study on Flow over inclined sharp-crested triangular Weir.*
178. *Use of Inclined Rectangular Notch-weir for Flow measurement with Lesser Afflux.*
179. *Inclined Sluice gates for flow measurements.*
180. *Recharging of extinct Bore wells by Harvesting Roof rain water: A case study.*
181. *Computerized Optimisation Model for Solid Waste Collection Routes for Shimoga City.*
182. *Performance of fiber-reinforced concrete using recron 3's.*
183. *Compressive strength of concrete using laterite waste.*
184. *Experimental study on compressive strength of concrete by placement of sand with quarry dust,*
185. *Low cost laterite cement bricks.*
186. *Flow through Inward Trapezoidal Channels with Rectangular Base.*
187. *Flow through Inward Trapezoidal Channels with Triangular Base.*
188. *Flow through Inward Trapezoidal Channels with Semi-Circular Base.*
189. *Utilisation of Industrial Waste (BFS) in Axial Tension.*
190. *Behavior of Light Weight Ferrocement with Skeletal Steel under Shear Loading.*
191. *Studies on light-weight ferrocement under monotonic axial compression.*

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192. *Quality Management in Professional Education by Reformatations in Administrative machinery.*
193. *Efficiency studies in drip irrigation in mixed cropping system.*
194. *Experimental studies on Mechanical Properties of High strength concrete (HSC) and Modified High strength concrete.*
195. *Flow through Non-Coplanar Rectangular Horizontal Slots.*
196. *Flow through Non-Coplanar Vertical Orifice.*
197. *Flow through inward trapezoidal channels.*
198. *Circular channels used for flow measurement as Linear channels*

Appendix 5

Invited Lectures and other distinctions including Projects undertaken

1. ***Cost Effective Rural Sanitation*** at Workshop on Cost effective Housing Technologies held at JNNCE during 16.01.1997 to 18.01.1997, sponsored by Nirmiti Kendra, Shimoga and KARNIK, Bangalore. (Resource person to conduct such workshops).
2. ***Damage Classification of Concrete Structures*** at Workshop on “Building Failures-Causes, Remedies and Rehabilitation” at J.N.N. College of Engineering, Shimoga on 13th and 14th of September 1997.
3. ***Hydraulic Pressure testing of Pipes and Pumping Characteristics*** at “Training Programme for Engineers in Construction Methods”, under Karnataka Integrated Rural Water Supply and Environmental Sanitation Project (World Bank assisted) held at Jawaharlal Nehru National College of Engineering, Shimoga from 17-3-1998 to 19-3-1998.
4. ***Exact and Geometrically simple linear weirs of Constant accuracy***, National Seminar on Proportional Weirs and Division of Flows held at Indian Institute of Science, Bangalore on July 22nd, 1998.
5. ***Strength Comparison of Steel Fibre Reinforced Concrete with and without Fly Ash***, at One Day State level Seminar on “Recent Advances in Civil Engineering Practices,” Sponsored by Indian Society for Technical Education, New Delhi at J.N.N. College of Engineering, Shimoga on 24th of December, 1998
6. ***Fundamentals of Computers, MS-DOS, Computer Applications in Fluid Mechanics*** in One-week Continuing Education Course on “**Computer Applications in Civil Engineering**” Engineering Staff College, Govt. of Karnataka to Engineers of GOK, from June 21 to 25, 1999.
7. Has undergone training as a Trainee to train Masons and conduct Awareness programme to rural people under Karnataka Nirmala Grama Yojana under which worked as a District Coordinator coordinating the various programme in Shimoga district by imparting training to masons and awareness to Zilla Panchayath members in constructing and maintaining the Rural Latrines and related rural sanitation during Nov.18-Dec. 28 of 1996.
8. ***Office Automation***, One-week Continuing Education Course for Government Engineers, sponsored by Engineering Staff Training College, Govt. of Karnataka to Engineers of GOK, from November 15 to 20, 1999.
9. ***Engineering education its importance and job opportunities*** one day workshop organised by Rotary Club, Shimoga at DVS College, Shimoga for class XII students.
10. ***Engineering education its job opportunities and importance at 2002 Udhya Margadarshi*** Counseling to X and XII students organised by Karnataka State Govt. and Chandrasaha Trust at Soraba Taluk, Shimoga on 24-12-2002.
11. ***Water resources education***, One day National seminar sponsored by Jala Samridhi Yojana, held at University Agricultural College, Shimoga during Dec. 2003.
12. ***Technological tools for effective teaching***, A State level UGC Sponsored 3 day workshop for ***College teachers*** held at Kasturba College, Shimoga during 29-09-05 to 01-10-05.
13. ***Web based Learning***, A State level UGC Sponsored 2 day workshop for ***College teachers*** held at DVS College, Shimoga during 29-12-05 to 01-12-05.
14. ***VTU Vision Document about Elearning*** One day seminar conducted at SRISHTI 2006, a Programme conducted in association with VTU, ABVP and University BDT College of Engineering on 20th May 2006 as a part of series of lectures from UBDTCE TEQIP Programme.
15. ***Design of Irrigation Structures*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during January 2007
16. ***Design of Irrigation Structures*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during February 2007
17. ***Reusing and Recycling of Waste Water for Irrigation*** Five day Workshop conducted at University BDT College of Engineering on 26th to 30th March 2007 as a part of UBDTCE TEQIP Programme.
18. ***Design of Irrigation Structures*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during April 2007
19. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during July 2007

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20. ***Design of Roof Rainwater Harvesting System*** at Five day Continuing Education Programme entitled ***Rainwater Harvesting*** sponsored by ***ISTE*** and ***Engineering Staff College, KRS***, conducted at University BDT College of Engineering on 18-22 June 07
21. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during July 2007
22. ***Effective presentation using PPTs*** at One Week Faculty Development Programme on ***Teacher Effectiveness***, held at ***Girimaji Rajagopal National Institute of Management***, Shimoga, held during 21st to 25th January, 2008.
23. ***Teaching How to Teach-Presentation of Eklavya Channel-An Educational TV channel Established by IITs and MHRD*** at One Week AICTE and ISTE Faculty Development Programme sponsored by on ***Advances in E-Business Application and M I S***, held at J.N.N. College of Engineering,, Shimoga, held during 16th to 21st June, 2008.
24. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during July 2008
25. ***Computers Applications in Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during July 2008
26. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Aug 2008
27. ***Programme objectives and outcomes*** a Two day workshop on ***Evaluation Guidelines of NBA accreditation of undergraduate Engineering Courses***, held at J.N.N. College of Engineering, Shimoga on 23 of February 2009 for Engineering college teachers.
28. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Nov 2009
29. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Dec 2009
30. ***Supervisory Skills*** a Three day workshop on ***Personality Development Programme***, held at J.N.N. College of Engineering, Shimoga from 18th to 20th of January 2010 for Engineering college technical and non-technical staff.
31. ***Instructors role in teaching*** a Three day workshop on ***Personality Development Programme***, held at J.N.N. College of Engineering, Shimoga from 18th to 20th of January 2010 for Engineering college technical and non-technical staff.
32. ***Advance concepts in Power point presentation***, Invited lecture presented at National Institute of Engineering, Mysore on Feb 10
33. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Feb 2010
34. ***Design of Irrigation Structures using Computers*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during June 2010
35. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during July 2010
36. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during October 2010
37. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during November 2010
38. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during December 2010
39. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during February 2011
40. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during March 2011
41. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during May 2011
42. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during July 2011
43. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Sept 2011
44. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Nov 2011
45. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Dec 2011
46. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during Feb 2012

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47. ***Computer Applications to Cross-Drainage Works*** at One Week Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during March 2012
48. ***Computer Applications to Civil Engineering*** at One month Training Programme for Civil Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during April 2012
49. ***Creative and Innovative Teaching Techniques*** at 3 day induction Program for Newly recruited Engineering college teachers held at AMC College of Engineering, Bangalore in collaboration with Higher Education Council of Karnataka State on April 22, 2012
50. ***Computer Aided Designing & Drafting*** at One month Training Program for Probationary Assistant Executive Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during June 2012
51. ***Computer Aided Designing & Drafting*** at One month Training Program for Probationary Assistant Executive Engineers of PWD and Irrigation, conducted at Engineering Staff College, Govt. of Karnataka, KRS during July 2012

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