Research Papers Published in National/ International Journals

Research Papers Published in SCI/Scopus Journals: 117

2018

1. Saroja Anuma, Praveen Mishra and Badekai Ramachandra Bhat (2018), Copper complex with N-,O- architecture grafted graphene oxide nanosheet as a heterogeneous catalyst for Suzuki Cross Coupling Reaction, Journal of the Taiwan Institute of Chemical Engineers (in press).


2017


20. KB Manjunatha, R Rajaraao, G Umesh, BR Bhat and P Poornesh (2017) Optical nonlinearity, limiting and switching characteristics of novel ruthenium metal-organic complex, Optical materials, 72, 513-517

2016


25. Raghavendra Prasad, Lolakshi M.K., Badekai Ramachandra Bhat (2016), rGO supported Co-Ni bimetallic magnetically separable nanocatalysts for the reduction of 4-Nitrophenol, Synthetic Metals, 219, 26–32


2015


2013


**2012**


64. Ravindra R and Badekai Ramachandra Bhat, Study of effect of temperature on the synthesis of carbon nanotubes by floating catalyst method, J. Met. Mater. Miner. 22(2), 2012, 1-5. ISSN No. 0857-6149


2011


81. A.S.Ramasubramanian, B.Ramachandra Bhat, R. Dileep and Sandya Rani, Transition metal complexes of 5-bromosalicylidene-4-amino-3-mercapto-1,2,4-triazine-5-one: Synthesis,


2010


Till 2009


104. B. Ramachandra, B. Narayana, Complexing behaviour of 4-vanillideneamino-3-methyl-5-mercapto-1,2,4-triazole towards Ag(I), Tl(I), Zn(II), Pb(II), Cd(II), Hg(II), Co(II), Ni(II), Pd(II), Rh(III) and Ir(III), J. Indian Chem. Soc., 77, 2000, 440-444. ISSN No. 0019-4522.

105. B. Ramachandra and B. Narayana, Synthesis and characterization of yttrium and lanthanide perchlorate complexes of 4-salicylideneamino-3-mercapto-6-methyl-1,2,4-triazin(4H)-5 one., Indian J. Chem., 38 A, 1999, 1297-1299. ISSN No. 0376-4710.

106. B. Ramachandra and B. Narayana, Complexes of Ag(I), Tl(I), Zn(II), Pb(II), Cd(II), Hg(II), Co(II), Ni(II), Rh(II), Ru(III) and Ir(III) with 4-salicylideneamino-3-mercapto-6-methyl-1,2,4-triazin(4H)-5-one., J. Indian Chem. Soc., 76, 1999, 239-242. ISSN No. 0019-4522.


115. B. Ramachandra and B. Narayana, Gravimetric determination of silver(I) using 4-benzylideneamino-3-mercapto-6-methyl-1,2,4-triazin(4H)-5-one., Turk. J. Chem., 19, 1995, 80-86. ISSN No. 1300-0527.


117. A. Joseph, B. Narayana, B.M. Rao and B. Ramachandra, Complexes of Ag(I), Tl(I), Zn(II), Pb(II), Cd(II), Hg(II), Co(II), Ni(II), Rh(II), Ru(III) and Pt(IV) with 4-amino-3-mercapto-6-methyl-1,2,4-triazin(4H)-5-one., Turk. J. Chem., 18, 1994, 14-21. ISSN No. 1300-0527.

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Papers Presented in International Conferences/Symposium: 83


13. Praveen Mishra and Badekai Ramachandra Bhat (2017). Effect of ion beam on graphene quantum dots. International Conference on "Accelerators in Materials and Medical Sciences (ICAMMS'17)", 5-7th October 2017, Amity University Dubai Campus, Dubai, UAE.


24. Rasheeda M. Ansari and Badekai Ramachandra Bhat, Copper Schiff base complex as a catalyst for Carbon-Carbon cross-coupling reaction, International Conference on Advances in Chemical Engineering (ICACE-2015), Department of Chemical Engineering, National Institute of


38. Sampath Kumar H.C. and B. Ramachandra Bhat, synthesis, characterization and non linear optical property of 3,4-diaminobenzophenone schiff base complexes of Co(II), Ni(II) and Zn(II), International conference on recent advances in material science & technology (ICRAMST – 13), NITK Surathkal, 17-19 January, 2013.


40. Manjunatha, K.B, Shettigar, S., Rajarao, R., Umesh, G., Ramachandra Bhat, B. “Investigation of nonlinear optical and all-optical switching properties of novel ruthenium complex” International Conference on Fiber Optics and Photonics, PHOTONICS 2012; Chennai, Tamil Nadu; India, December 9-12 December 2012; Code 98257


43. Ravindra R and Badekai Ramachandra Bhat "Oxidation of primary and secondary alcohols catalyzed by Ni-Schiff base complex supported on carbon nanotubes.” International Conference on Synthetic and Structural Chemistry (ICSSC 2011), Mangalagangotri, Mangalore, India, 8-10 December 2011.

44. Aparna P I and B Ramachandra Bhat, Green Synthesis of biaryls using Ni(III) complex, International Conference on Synthetic & Structural Chemistry (ICSSC-2011), Mangalagangotri, Mangalore, India, 8-10 December 2011.


70. Keun-Soo Kim, Jung-Sik Choi, B. Ramachandra, Ko-Yeon Choo, Min-Soo Lee, Yong-Taek Lee and Tae-Hwan Kim, Synthesis of NaA zeolite membrane from clear solution and its evaluation, International Congress on Membranes and Membrane Processes (ICOM), Seoul, South Korea, August 21-26, 2005, p.897.


74. Keun-Soo Kim, B. Ramachandra, Jung-Sik Choi, Ko-Yeon Choo and Tae-Hwan Kim, Application of NaA zeolite membrane prepared by clear solution method to vapor-permeation of alcohol-water system, Proceeding of 2005 spring Korea Institute of Chemical Engineers (KIChe), Yosu National University, South Korea. April 22-23, 2005, p. 65.


78. Tae-Hwan Kim, Jung Sik Choi, B.Ramachandra, Molybdenum Oxide based Partial Oxidation Catalyst for the Preparation of Formaldehyde from Methanol, Proceeding of 2004 Korea Institute of Chemical Engineers (KICHE) Spring, Kongju National University, Kongju, South Korea. April 23-24, 2004, p. 19.


81. Tae-Hwan Kim, Jung Sik Choi, Sun-Dal Song and B.Ramachandra, Clay supported Mo-Fe catalyst for partial oxidation of methanol to formaldehyde, 28th Conference of the Korean Society of Industrial and Engineering Chemistry(KSIEC), Seoul, South Korea, Oct. 31~Nov 1, 2003, p.190.

82. Tae-Hwan Kim, B.Ramachandra, Jung-Sik Choi, M.B.Saidutta and Ko-Yeon Choo, Modified Iron-Molybdate catalysts for oxidative dehydrogenation of methanol to formaldehyde, 23rd Conference of Korea Institute of Chemical Engineers(KICHE), Seoul, South Korea, Oct.24-25, 2003, p.211.


Papers Presented in National Conferences/Symposium: 29


3. Rasheeda M. Ansari and Badekai Ramachandra Bhat, Synthesis and catalytic application of Schiff base complexes in cross-coupling reactions, National Conference on Advances and Innovations in


15. Ravindra R and B Ramachandra Bhat, Catalytic synthesis of carbon nanotubes in industrial scale by metal formates, National conference on social relevance of chemical sciences, Kuvempu University, Shimoga, 26-27, March 2011.


26. B. Ramachandra and B. Narayana, Complexes of Ag(I), Tl(I), Zn(II), Pb(II), Cd(II), Hg(II), Co(II), Ni(II), Rh(III), Ru(III), and Ir(III) with 4-Salicylideneamino-3-mercapto-6methyl-1,2,4-triazin(4H)-5-one, 16th Conference of ICC, Mangalore University, INDIA, 1997 Abst. IO-39.

27. B. Ramachandra and B. Narayana, Complexing behaviour of 4-salicylideneamino-3-mercapto-6methyl-1,2,4- triazin(4H)-5-one towards lanthanide nitrates. 16th Conference of ICC, Mangalore University, INDIA, 1997 Abst. IO-26.


29. B. Ramachandra and B. Narayana, Synthesis and spectral studies on the complexes of Co(II),Ni(II),Pd(II) and Hg(II) with Salicylideneamino-3-mercapto-6methyl-1,2,4-triazin(4H)-5-one, 12th Conference of ICC IP-3, 1993

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Ph.D. Guidance

Ph.D. Awarded: 10

<table>
<thead>
<tr>
<th>S. No</th>
<th>Name of the student</th>
<th>Reg. No.</th>
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<td>1.</td>
<td>Ramasubramanian. A. S.</td>
<td>CY05P01</td>
<td>“Physico-Chemical and Biological Studies on Some Metal-Organic Compounds”</td>
<td>November 2010</td>
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<tr>
<td>2.</td>
<td>Dilip. R</td>
<td>CY07F02</td>
<td>Studies On Catalytic Oxidation of Alcohols Using Transition Metal Complexes</td>
<td>December, 2010</td>
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<td>6.</td>
<td>Sandhyarani</td>
<td>CY08P05</td>
<td>Transition metal complexes as catalysts for organic synthesis.</td>
<td>April, 2014</td>
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**Ongoing Ph.D. 07**

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<td>11.</td>
<td>Lolakshi</td>
<td>CY13F02</td>
<td>Pincer ligand-metal complexes for Organic Transformation reactions</td>
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<td>13.</td>
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<td>Surface Engineering of Stainless Steel for Biomedical Application</td>
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<td>Graphene quntum dot composite for bio sensors</td>
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<td>Synthesis characterization and catalytic application of graphene oxide immobilized transition metal complexes</td>
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<td>187032CY07</td>
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M. Pil: 01

Mr. K. Krishna Karanth, Lecturer, Vivekananda First Grade College, Puttur,
Dissertation: Carbon Nanotubes and its applications- A review.

PG Projects: 26

M.Sc. (Chemistry)

<table>
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<tr>
<th>Sl.No.</th>
<th>Name of the Student</th>
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<tr>
<td>1.</td>
<td>Nafisath</td>
<td>07CY 05</td>
<td>Synthesis and characterization of some organometallic compounds</td>
<td>2008-09</td>
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<td>2.</td>
<td>Ravindra R</td>
<td>07CY11</td>
<td>Nickel (II) complexes as non linear optical material</td>
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<td>3.</td>
<td>Ravindra Moger</td>
<td>07CY10</td>
<td>Catalytic oxidation of alcohols to carbonyl compounds</td>
<td>2008-09</td>
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<td>4.</td>
<td>Shiva Kumar .K.I.</td>
<td>08CY12</td>
<td>Synthesis and third order nonlinear optical studies of Copper (I) Phenanthroline based complexes.</td>
<td>2009-10</td>
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<td>5.</td>
<td>Shravan S. Acharya</td>
<td>08CY14</td>
<td>Synthesis characterization and DNA binding studies of some iron (III) Schiff base complexes.</td>
<td>2009-10</td>
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<td>8.</td>
<td>Pooja B Bhat</td>
<td>09CY15</td>
<td>Synthesis characterization and third order NLO studies of metal complexes containing substituted O- phenylenediammine Schiff Base ligands</td>
<td>2010-2011</td>
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<td>9.</td>
<td>Oswin Pinto</td>
<td>09CY14</td>
<td>Synthesis characterization and catalytic applications of some transition metal complexes.</td>
<td>2010-2011</td>
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<td>12.</td>
<td>Akila K</td>
<td>11CY01</td>
<td>Magnetic nano particles as Catalysts</td>
<td>2012-2013</td>
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<td>13.</td>
<td>Pavana M N</td>
<td>11CY13</td>
<td>Carbon nano structures for supercapcitors</td>
<td>2012-2013</td>
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<tr>
<td>Sl. No.</td>
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<td>3</td>
<td>SHREEGANESH SUBRAYA HEGDE</td>
<td>Reg.No: 17S05097</td>
<td>SUPERCAPACITOR DEVICES</td>
<td>May-July, 2018</td>
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</tbody>
</table>
Awards/Fellowships:

- Commonwealth Academic Fellowship tenable at: Northumbria University, New Castle Upon Tyne, United Kingdom, January 19th to April 18th, 2015
- VISITING SCIENTIST under Brain Pool Program supported by the Korean Federation of Science and Technology Societies (KOFST) and the Korea Science and Engineering Foundation (KOSEF), South Korea. During my stay at Korea Institute of Energy Research (KIER), Daejeon, Republic of Korea. I was working with Dr. Tae-Hawn Kim, Center leader of Hydrogen Separation and Storage Research Center, on ‘The development of new process for the production of formaldehyde derivatives using catalytic membrane reactor-Green syntheses for 24 months, from July 2003 to June 2005.
- Visited SMaRT Centre (Sustainable Materials Research and Technology) for the research interaction with Prof. Veena Sahajwalla, Director of Centre for (SMaRT), University of New South Wales, Australia from 1st July to 7th July, 2014.
- Visited Nanoscale Science and Engineering Laboratory, for research interaction with Dr. Mainak Majumder, Senior Lecturer, Department of Mechanical Engineering, Monash University, Melbourne, Australia from 8th July to 11th July, 2014.


• Results of article published in Journal of Nanoparticle Research, 14, 2012, 656 has been Published in Nanotechnology weekly on 19th March, 2012.

• Journal of Nanoparticle Research article has been published even in vertical news and High beam research due to its simplicity, environmental friendly route to synthesize new worm shaped carbon nanofibers.


• Research work published in ACS Comb. Sci., 2014,16, 397–402 has been selected by the editorial Board of SYNFACCTS (Thieme) for its important insights.

Organizing conference/ workshop

• 37th ICC Conference at NITK, December 12-14, 2018.

• GIAN programme on Novel Functional Materials for Energy Conversion, 4-7th, October 2016. Department of Chemistry, NITK, Surathkal-575025.

• CRSI Mid-year Symposium, 2013 at NITK, Surathkal, July, 12-13, 2013.

• National Conference on Recent trends in Chemical Research (NCRTC R 2010), at NITK , Surathkal, 8-10, March, 2010. (250 delegates and 107 papers)

• National Workshop on ‘Advances in Coordination Chemistry’ at NITK, Surathkal, January 8-10, 2009. (135 delegates)

• Organized workshop on Recent Research Trends in Chemistry: An Interaction Programme Faculty and PG students of NITT & NITK at NIT, Trichy on September 27-28, 2008.

• One day workshop on ‘Community-Institute Interaction’ under Community Service Programme of TEQIP at NITK, 18th March, 2007.
Books Published


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Funded Research Projects

- “Synthesis Characterization and NLO studies of Ni(II0, Co(II) complexes containing 1,10-phenanthroline Derivatives” TEQIP-I, 6.00 lakhs, 2008-2009, PI: B. Ramachandra Bhat, CI: R.Karvembu, NITTrichy,
- “Green conversion of alcohols to carbonyl compounds in ionic liquids using nickel catalysts containing PPh3 and N-(2-pyridyl)-N′(salicylidene) hydrazine ligands”, TEQIP-I, 6.00 lakhs, 2008-2009, PI: B. Ramachandra Bhat, CI: R.Karvembu, NITTrichy,

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Consultancy Project
• Gold lamination of Sri Kateel Durgaparmeshwari Temple Chariot- total project cost 350.00 lakhs.
• Department consultancy work for analysis of water, food, oil and other chemical samples.

Special lecture Delivered:

• “Carbon: A Next Generation Material”, Canara PU College, Mangaluru, October 11, 2018
• “Nano Carbon: A Smart Material” Mangalore University College, Mangaluru, September 04, 2018.
• Carbon nanostructures for energy Applications- Refresher Course in nano science by UGC-HRD Centre, Kannur University, Payyanur Campus. March 17, 2017.
• ‘Carbon Nanostructures- A smart materials’ – National Conference on Chemistry for Sustainable Future (NCCSF-2017) will be held on 27th and 28th January 2017 at Sri Dhemasthala Manjunatheshwara College Ujire.
• “Ozone: Come save the Earth”, Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi, September 16, 2016.
• “Nano Carbon materials for Energy and Sensor Applications”, Northumbria University, Newcastle Upon Tyne, United Kingdom, January, 28th, 2015.
• “Overview on the research at Catalysis and Materials laboratory at NITK”, Faculty of Engineering and Environment, Northumbria University, Newcastle Upon Tyne, United Kingdom, January, 19th, 2015.
• “Allotropy of carbon materials for energy applications”, One day state level UGC sponsored Seminar, Vijaya College, Mulky, January 5th, 2015.
• “Chemistry of Carbon nano materials” Vivekananda College of PG studies, Puttur, September 29th, 2014.
• “Materials for catalysis, biosensors and energy applications”, Nanoscale Science and Engineering Laboratory, Department of Mechanical Engineering, Monash University, Melbourne, Australia, July 9th, 2014.
• ‘Climate Change and Ozone’ Refresher Course in Chemistry for UG/PG faculty organized by the UGC- Academic Staff College, Bangalore University, Bangalore, March 21st, 2014.

• “Carbon nano structure: An efficient energy storage material’ Refresher Course in Chemistry for UG/PG faculty organized by the UGC- Academic Staff College, Bangalore University, Bangalore, March 21st, 2014.

• “Nano Carbon: A fascinating Material” two days national symposium on Recent Advances in Chemical Sciences, Alva’s College, Moodbidri, March 7th, 2014.

• “Carbon nano structures for Energy Applications” World’s Emerging Advancements in Chemical Technology (We Act 2014), Govinda Dasa First Grade College, Surathkal January 11, 2014

• “Ozone: Cover and Uncover”, Alva’s College Moodabidri, on the occasion of world ozone day celebration, September 16th, 2013.

• “Safety precautions in handling petroleum products” Training program for Indian Oil Corporation workers at Panambur, Mangalore, October 14, 2012.

• “Petroleum and safety measures”, Training program for Indian Oil Corporation workers at Panambur, Mangalore, March 11, 2012.

• “One dimensional carbon nanostructures and its energy applications”, Seminar on Nanotechnology- Ultimate solution to energy challenges, St. Aloysius College Mangalore, February, 24, 2012.

• Overview on one dimensional carbon nanotubes, Christ University, Hosur Road, Bangalore, November, 25, 2011.

• Carbon nanotubes: Polymer composites, STTP, NITK Surathkal, August 3, 2011.

• ‘Development of New Process for the Production of Formaldehyde Derivatives using Catalytic Membrane Reactor’ at Hydrogen Separation & Storage Research Center, Korea Institute of Energy Research (KIER), Daejeon, South Korea, March 15, 2005.

• ‘Modified Iron-Molybdate catalysts for oxidative dehydrogenation of methanol to formaldehyde’ KIER, Daejeon, South Korea, September 24, 2003.
Special Appointments:

- Chairman, 37th ICC Conference to be held at NITK, Sruathkal, December 12-14, 2018.
- Chaired a session in ICC International Conference held at Bali, Indonesia, during June 7th-9th, 2017.
- Head of the Department, Chemistry, 11th August, 2014 to 10th August, 2016
- Member, BOS for two years (2017-19), St. Aloysius College, Mangaluru-575003
- Elected as a Senate Nominee to Board of Governors, NITK Surathkal for two years from 21.10.2014 to 20.10.2016
- Member, Finance Committee, NITK, Surathkal from October, 2014 to October, 2016
- Chaired a session in International conference on Recent advances in material science & technology (ICRAMST – 13), NITK Surathkal, 17-19th January, 2013.
- Member, FANITK, EC Sub Committee for the modification of MHRD guidelines for recruitment in NITK in March-April, 2012.
- Advisory Committee Member, Seminar on Nanotechnology- Ultimate solution to energy challenges, St. Aloysius College Mangalore, February, 24, 2012.
- Advisory Committee Member, International Workshop on Applications of Nanotechnology to Energy, Environment and Biotechnology (NANO EEB) St. Aloysius College (Autonomous) Mangalore, India, during December, 14-16, 2010.
- Chaired a session in International Conference on Nanomaterial & its Applications (ICNA-2007), at NIT Trichy, February 4-6, 2007.
- Chaired a session in International Workshop on Applications of Nanotechnology to Energy, Environment and Biotechnology (NANO EEB) St. Aloysius College (Autonomous) Mangalore, India 14-16 December 2010.
- TEQIP-II- Joint nodal officer, Disclosure Management, MIS
- TEQIP-I- Nodal officer for training and faculty affairs
- TEQIP-I- Joint nodal officer for training and faculty affairs
• TEQIP-I- Coordinator for Service to Community.

Membership of Professional Bodies

1. Life Member, Indian Chemical Society.
2. Life Member, Indian Society for Technical Education – LM 36477
3. Life Member, Chemical Research Society of India- LM 947
4. Life Member, Indian Science Congress Association- L 13148
5. Member, Indian Council of Chemist – LF/1226
6. Member, IACSIT- 80342267

Conferences/ Workshops/Seminars/ Short-term courses attended

• 5th International conference of Indian Council of Chemists at Swiss-Belhotel Rainforest, Kuta, Bali, Indonesia, June 7-9, 2017.
• 6th International Engineering Symposium (IES 2017) at Kumamoto University, Japan, March 01-03, 2017
• Northumbria University, Newcastle Upon Tyne as a Commonwealth Fellow, Jan,18-April 18th, 2015.
• Attended 5th Chemical Nanoscience Symposium (CNSN-5), Newcastle University, United Kingdom, 26th March, 2015.
• Visited University of New South Wales, Sydney and Monash University Australia from 30.60.2104 to 11.06.2014 for Research Interaction.
• SPIE- Photonic West-2014 at San Francisco, California, USA, February 1-6, 2014.
• International Conference on physical sciences and technology (ICPST-2011), Dubai, December 28-30, 2011
• ICC International conference, Bangkok, Thailand, June 11-15, 2011
• Attended 5th International Congress of Chemistry and Environment, Glory Beach Resort, Port Dickson, MALAYSIA, May 27-29, 2011.

- Spring Conference of Korea Institute of Chemical Engineers (KIChe), April 22-23, 2005, Yosu National University, South Korea.


- Autumn Conference of Korea Institute of Chemical Engineers (KIChe) and KSIEC, Oct. 29-30, 2004, Hoseo University, Asan, South Korea.

- Spring Conference of Korea Institute of Chemical Engineers(KIChe), April 23-24, 2004, Kongju National University, Kongju, South Korea.


- 23rd Conference of Korea Institute of Chemical Engineers(KIChe), Oct.24-25, 2003, Seoul, South Korea


- One day workshop on TEQIP- II MIS conducted by NPIU on at EdCIL, 18-A Sectro 16A, Noida, 23rd November, 2013.


- International conference on nanoscience and technology (ICONSAT-2012), Hyderabad, 20-23 January 2012.


- Faculty Awareness Camp on Enterpreneurship (FACE), 22-24th June, 2008, NITK, Surathkal.

- Summer School on “Recent Developments in Advanced Materials”, 16-21st June, 2008, NITK Surathkal


International Conference on Nanomaterial & its Applications (ICNA-2007), February 4-6, 2007. NIT Trichy.

Workshop on NanoStructure (Mertials, Methods and Applications) June, 22nd 2006, CIT, Coimbatore.

One day workshop on Industrial Corrosion Awareness and Prevention, February, 25th 2006, Mangalore University, Mangalagangothri, India.


Workshop on ‘Grading in credit system at NITK” November, 12th , 2005, at NITK sponsored by TEQIP at NITK, Surathkal.

Coastal Erosion Areas (CEA) - Protection and Management, 06 - 18, Jan, 2003, App. Mech Department, NITK Surathkal.


Solar Energy and its Applications (SEA) 20th Jan to 02nd Feb, 2003, E & E Engg., NITK Surathkal.


Student Evaluation, 25th to 27th Nov, 2002 , Technical Teachers Training Institute, CHENNAI.

• Internet, Intranet and programming, 22nd Nov. to 4th Dec. 1999, Computer Engg. Department, KREC Surathkal

• Fuzzy logic and neural networks in chemical process automation 15th Feb. to 27th Feb.1999, E&E Department, KREC Surathkal.

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