# CURRICULUM VITAE

**Dr. B. Vijaya Kumar**
Assistant Professor
Department of Chemistry
University College of Science
Osmania University
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1. Name : **Dr. B. Vijaya Kumar**
2. Father's Name : **Somla**
3. Mothers Name : **Bharathi**
4. Date of Birth : **01 July 1982**

**5. Educational Qualifications**

| Degree | College/University | % Marks | Year of Passing |
|---|---|---|---|
| SSC | Board of Secondary Education | 68 | 1998 |
| Intermediate | Bord of Intermediate | 73 | 2000 |
| B.Sc., | Kakatiya University | 78 | 2004 |
| M.Sc., | Kakatiya University | 70 | 2006 |
| PhD | Osmania University | | |
| Thesis title | "Synthesis and Spectral Characterization of Pyrochlore ($A_2B_2O_7$) type compounds" | | 2011 |
| Supervisor Name | Prof. M. Vithal | | |

**6. Professional Experience**

| Position | Duration | Institution | Responsibilities |
|---|---|---|---|
| Research Associate | 9th Aug 2011 to 5th April 2012 | Osmania University, Hyderabad | Preparation of metal oxides and Photocatalysis applications |
| Assistant Professor | 16th April 2012 to 12th Sep 2013 | National Institute of Technology, Warangal. | Teaching M.Sc., Students and B Tech Students |
| Assistant Professor | 13th Sep 2013 to till date | Osmania University, Hyderabad | Teaching M.Sc., Students |

**7. Teaching Experience**

| S.No. | Course Taught | Semester |
|---|---|---|
| 1. | Chemical Kinetics I | I |
| 2. | Electrochemistry I | I |
| 3. | Chemical Kinetics II | IV |

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|---|---|---|
| 4. | Applied Electrochemistry | IV |

**8. Resource persons**

| Guest Lectures/ Extension Lectures | Name of Program | Organization / Institution | Date and Year |
|---|---|---|---|
| Guest Lecture | M.Sc., | AMS | 20-03-02015 |
| Guest Lecture | M.Sc., | PG College, Mirzapur | 01-04-2015 |
| Resource Person | Refresher Course | HRDC, Osmania University, Hyderabad | 17-10-2022 |

**9. Career Development Programs:**

| Course attended | Institution /University | Duration (From—To) |
|---|---|---|
| Orientation Course | HRDC (Academic Staff College), Osmania University | 10-12-2013 to 08-01-2014 |
| Refresher Course | HRDC (Academic Staff College), Osmania University | 08-02-2017 to 01-03-2017 |
| Refresher Course | HRDC (Academic Staff College), Osmania University | 15-02-2018 to 08-03-2018 |
| Refresher Course | Ramanujan College, University of Delhi | 21-06-2022 to 05-07-2022 |
| Faculty Development Program | Anwalululoom College, Osmania University, Hyderabad | 27-01-2021 to 02-02-2021 |
| Faculty Development Program | Centre for Advanced Computational Chemistry Studies, Delhi | 05-10-2022 to 11-10-2022 |

**10. Research Supervision**

| S.No. | Name of the Student | Nature of fellowship | Date of joining | Status |
|---|---|---|---|---|
| 1 | D. Ravinder Reddy | No Fellowship | 23-03-2017 | Ongoing |
| 2 | B. Kranthi Kumar | JRF-CSIR | 13-02-2017 | Ongoing |
| 3 | Vasantha Rao | RGNF | 10-04-2017 | Ongoing |
| 4 | M. Shekar Babu | JRF-CSIR | 29-12-2017 | Ongoing |
| 5 | Swarupa Guda | No Fellowship | 12-09-2018 | Ongoing |
| 6 | N. Anuradha | No Fellowship | 18-09-2018 | Ongoing |

**11. Awards/Honors**

| S.No. | Name of Award | Awarding Agency |
|---|---|---|
| 1. | Associate Fellow | Telangana Academy of Sciences |

## 12. Memberships

| S.No. | Membership | Awarding Agency |
|---|---|---|
| 1. | Life member of Indian Science Congress | Indian Science Congress Association |
| 2. | Indian Council of Chemists (LF/1846) | Indian Council of Chemists |
| 3. | Materials Research Society of India | Materials Research Society of India |

## 13. Research Projects

| Title of Project | Funding Agency | Amount | Duration | Year |
|---|---|---|---|---|
| Development of tunable p-n heterojunctions for gas sensing and photocatalytic applications | DST-SERB-SURE | 2468370/- | Three Years | 2023-2026 |
| Development of g-$C_3N_4$/Lanthanide Doped Tungsten Metal oxide-based hybrid nanocomposites for Photoluminescence and Photocatalysis Applications | DST-EMR | 13,20,000/- | Three Year | 2017-20 |
| Synthesis, Characterization, Photocatalytic activity and Photoluminescence of Spinel type Compound | UGC | 6,00,000/- | Two Years | 2014 |
| Synthesis, Characterization, Luminescence and Photocatalytic activity of $Y_2Ti_2O_7$: $Ln^{3+}$ (Ln = Pr, Sm, Eu, Gd and Tb) | MHRD | 3,50,000/- | One Year | 2013 |

## 14. Research Interest

- Preparation of Novel semiconductor photocatalysts by hydrothermal and sol-gel methods
- Construction of heterostructures
- The effect of doping on photocatalytic activity
- Preparation of core-shell nanostructures and study of their photocatalysis
- Preparation of sulfide contains semiconductors and study of their gas sensing properties.

## 15. List of Research Publications

| S.No. | Publication Details |
|---|---|
| 41 | G. Swarupa, N. Anuradha, K. Narsimha, Kathi Sudarshan, G. Upender **B. Vijaya Kumar**, Enhanced Photocatalytic Efficiency of BaTiO3 Augmented by ZnS Nanospheres via Type-II Heterojunction for Methyl Orange Degradation, ***Mater. Sci. Semicond. Process (Accepted), I.F: 4.2*** |

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|---|---|
| **40** | E. Praveen Kumar, N. Chanakya, Ayesha Siddiqua, Kurugundla Gopi Krishna, **B. Vijaya Kumar**, P. Muralikrishna, G. Upender, Investigations on $MWO_4$ (M = Cu, Zn, Cd and Sn) nanostructures for detecting toluene gas at room temperature, ***Sensors & Actuators: A. Physical 368 (2024) 115094.*** I.F: 4.6, doi.org/10.1016/j.sna.2024.115094 |
| **39** | D. Satya Vardhan, Ch Sameera Devi, P. Nagaraju, P. Muralikrishna**, B. Vijaya Kumar**, G. Upender, Room temperature sensing of ammonia and formaldehyde gases through novel anisotype heterojunction of p-$Co_3O_4$/n-$Gd_{0.1}Ce_{0.9}O_{2-\delta}$ as highly responsive and stable sensors, ***Materials Chemistry and Physics 313 (2024) 128694*****, *I.F: 4.6,*** doi.org/10.1016/j.matchemphys.2023.128694. |
| **38** | Amgoth Vasanth Rao, K. Narsimha, G. Swarupa, N. Anuradha, B. Kranthi Kumar, D. Ravinder Reddy, G. Upender, **B. Vijaya Kumar, S**n doped CdWO4 Augmented photodegradation of methyl orange, ***Materials Letters 353 (2023) 135304,*** doi.org/10.1016/j.matlet.2023.135304 |
| **37** | T. Nagesh, K. Ramesh, B. Ashok, L. Jyothi, **B. Vijaya Kumar**, G. Upender, Insights into charge transfer via Z-scheme for Rhodamine B degradation over novel $Co_3O_4$/$ZnFe_2O_4$ nanocomposites, **Optical Materials 143 (2023) 114140, https://doi.org/10.1016/j.optmat.2023.114140, I.F: 3.9.** |
| **36** | Kranthi Kumar Bedala, Prasad Gonugunta, Mohammad Soleimani, Eszter Madai, Peyman Taheri, Sandeep Kumar Padamati, P. Nagaraju, G. Upender, **B. Vijaya Kumar**, Facile synthesis of $ZnIn_2S_4$/$Cu_2O$ hierarchical heterostructures for enhanced selectivity and sensitivity of NH3 gas at room temperature, ***Appl. Surf. Sci. 640 (2023) 158315, I. F:6.7*** |
| **35** | B. Ashok, K. Ramesh, D. Madhu, T. Nagesh, **B. Vijaya Kumar**, G. Upender, Characterization and photocatalysis of visible-light-driven Z-scheme $Bi_2WO_6$/$Bi_2MoO_6$ heterojunction for Rhodamine B degradation, ***Inorg. Chem.Comm.150 (2023) 110495, IF:3.428,*** doi.org/10.1016/j.inoche.2023.110495 |
| **34** | Ravinder Reddy Danda, P. Muralidhar Reddy, A. Krishnam Raju, V. Naveen Reddy, K. Santosh Kumar and B. Vijaya Kumar, Acetic Acid-Water Mediated Efficient One-Pot Synthesis of Functionalized Isoxazolyl Amino Chromeno[4,3-b]pyridine Derivatives, ***Asian Journal of Chemistry 35 (2023) 135-142,*** *IF:* 0.16, doi.org/10.14233/ajchem.2023.26926 |
| **33** | Kura Narsimha, N. Anuradha, Kathi Sudarshan, Ashish Chhaganlal Gandhi, A. Krishnam Raju, P. Muralidhar Reddy, Radhika Mone, G. Upender, **B. Vijaya Kumar,** One – Pot Hydrothermal Preparation and Defects Enhanced Photocatalytic Activity of Bi doped $CdWO_4$ Nanospheres**, *Phys.Chem.ChemPhys. 24 (2022) 8775*** |
| **32** | K. Manjunatha, Tsu-En Hsu, Hsin-Hao Chiu, Tai-Yue Li, **B. Vijaya Kumar**, P. Muralidhar Reddy, Yu-Hao Wu, Bi-Hsuan Lin, Artashes Karmenyan, Chia-Liang Cheng, Ashish Chhaganlal Gandhi and Sheng Yun Wu**,** Precise Sn-Doping Modulation for Optimizing CdWO4 Nanorod Photoluminescence, **Int. J. Mol. Sci. 23 (2022) 15123, https://doi.org/10.3390/ijms232315123, I.F: 5.6.** |

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| **31** | Ashish Chhaganlal Gandhi, Hsin-Hao Chiu, Ming-Kang Ho, Tsu-En Hsu, Tai-Yue Li, Yu-Hao Wu, **B. Vijaya Kumar**, P. Muralidhar Reddy, Bi-Hsuan Lin, Chia-Liang Cheng, and Sheng Yun Wu "Modulation of Magnetic and Luminescence Properties via Control Cu-Doped in $CdWO_4$ Nanorods for Photocatalytic Applications" ***ACS Applied nanomaterials 10 (2022) 14811.*** |
| **30** | Tai-Yue Li, Ming-Kang Ho, Tus-En Hsu, Hsin-Hao Chiu, Kuan-Ting Wu, Jen-Chih Peng, Chun-Ming Wu, Ting Shan Chan, **B. Vijaya Kumar**, P. Muralidhar Reddy, Shyue-Chu Ke, Chia-Liang Cheng, Ashish Chhaganlal Gandhi, Sheng Yun Wu "Antiferromagnetic spin correlations above the bulk ordering temperature in NiO nanoparticles: Effect of extrinsic factors"***Appl. Surf. Sci. 578 (2022) 152081.*** |
| **29** | A. Sanjeev, N. N. Reddy, S. Bhaskar, R. Rohini, A. K. Raju, **B. V. Kumar**, A. Hu, P. M. Reddy, Synthesis and Anticancer Activity of 3,4,5-Trimethoxycinnamamide-Tethered 1,2,3-Triazole Derivatives, ***Russ J Org Chem* 58 (2022) 87–93.** |
| **28** | M. Anand Pandarinath,, P. Muralikrishna, D. Suresh Babu, **B. Vijaya Kumar**, G. Upender "Vibrational, thermal and optical studies of $30TeO_2$-$39.5B_2O_3$-(30-x)ZnO-x$Li_2O$-$0.5V_2O_5$ (0=x =30 mol%) glass system"***, J Non-Cry. Solids 566 (2021) 120875, IF: 4.458*** https://doi.org/10.1016/j.jnoncrysol.2021.120875 |
| **27** | Sampath Bitla, Akkiraju Anjini Gayatri, Muralidhar Reddy Puchakayala, **Vijaya Kumar Bhuky**, Jagadeshwar Vannada, Ramulu Dhanavath, Bhaskar Kuthati, Devender Kothula, Someswar Rao Sagurthi, Krisham Raju Atcha" Design and synthesis, biological evaluation of bis-(1,2,3- and 1,2,4)-triazole derivatives as potential antimicrobial and antifungal agents" ***Bioorg. Med. Chem. Lett. 41 (2021) 128004,*** |
| **26** | S. P. Sai Sushma, G. Swarupa, T. Nagesh, Someshwar Pola, P. Rajitha, B. Vijaya Kumar and G. Upender, "Enhanced photocatalytic activity of CdWO4/BaTiO3 heterostructure for Dye degradation", ***New J. Chem. 45 (2021) 19723-732, IF3.591,*** doi.org/10.1039/D1NJ01556G |
| **25** | Ashish Chhaganlal Gandhi, Tai-Yue Li, **B. Vijaya Kumar**, P. Muralidhar Reddy, Jen-Chih Peng, Chun-Ming Wu, and Sheng Yun Wu, "Room Temperature Magnetic Memory Effect in Cluster-Glassy Fe-doped NiO Nanoparticles", ***Nanomaterials 10 (2020) 1318***. |
| **24** | Sampath Bitla, Someswar Rao Sagurthi, Ramulu Dhanavath, Muralidhar Reddy Puchakayala, Saritha Birudaraju, Akkiraju Anjini Gayatri, **Vijaya Kumar Bhukya**, Krisham Raju Atcha "Design and synthesis of triazole conjugated novel 2,5-diaryl substituted1,3,4-oxadiazoles as potential antimicrobial and anti-fungal agents" ***J.Mol.Structure, 1220 (2020) 128705***. |
| **23** | K. Sateesh Reddy, Bandi Siva, S. Divya Reddy, N. Reddy Naresh, T. V. Pratap, B. Venkateswara Rao, Yi-An Hong, **B. Vijaya Kumar**, A. Krishnam Raju, P. Muralidhar Reddy, Anren Hu "In Situ FTIR Spectroscopic Monitoring of the Formation of the Arene Diazonium Salts and Its Applications to the Heck–Matsuda Reaction" ***Molecules 25 (2020) 2199.*** |
| **22** | Kura Narsimha, M. Shekar Babu, N. Anuradha, Swarupa Guda, B. Kranthi Kumar, D. Mallesh, G. Upender, P. Muralidhar Reddy, **B. Vijaya Kumar,** "Preparation and Characterization of $CdWO_4$:Cu Nanorods with Enhanced Photocatalytic performance under sunlight Irradiation" ***New J. Chem., 44 (2020) 2380.*** |
| **21** | **B. Vijaya Kumar**, Muvva D.Prasad, M. Vithal, "Enhanced visible light photocatalytic activity of Sn doped $Bi_2WO_6$ Nanocrystals" ***Mat. Lett. 152 (2015) 200.*** |
| **20** | Banoth Paplal, Sakkani Nagaraju, Veerabhadraiah Palakollu, Sriram Kanvah, **B. Vijaya Kumar** and Dhurke Kashinath, "Synthesis of functionalized 1,2,3 Triazoles using $Bi_2WO_6$ nanoparticles as efficient and reusable heterogeneous catalysts in aqueous medium", ***RSC Adv., 5 (2015) 57842.*** |

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| **19** | Banoth Paplal, S. Nagaraju, Palakollu Veerabhadraiah, Kodam Sujatha, Sriram Kanvah, **B. Vijaya Kumar** and Dhurke Kashinath, "Recyclable $Bi_2WO_6$ nanoparticle mediated one-pot multicomponent reactions in aqueous medium at room temperature", ***RSC Adv., 4 (2014) 54168*** |
| **18** | **B. Vijaya Kumar**, Radha Velchuri, G. Prasad, C. Bansal, M. Vithal, Preparation, Characterization, Photocatalytic activity and Conductivity of $BiLnZr_2O_7$ (Ln = La, Sm, Eu and Gd)", ***Mater. Chem. Physics 136 (2012) 439-447.*** |
| **17** | **B.V. Kumar**, N.K. Veldurthi, J.R. Reddy, M. Vithal, "Solvothermal synthesis, Characterization, Luminescence and Photocatalytic activity of $Bi_2WO_6$: Eu nanocrystals" ***Micro & Nano Letters, 6 (2012) 544–548.*** |
| **16** | **B. Vijaya Kumar**, M. Vithal, "Luminescence (M = $Mn^{2+}$, $Cu^{2+}$) and ESR (M = $Gd^{3+}$, $Mn^{2+}$, $Cu^{2+}$) of $Na_2ZnP_2O_7$: M", ***Physica B 407 (2012) 2094–2099.*** |
| **15** | **B. Vijaya Kumar**, Radha Velchuri, V. Rama Devi, B. Sreedhar, G. Prasad, D. Jaya Prakash, M. Kanagaraj, S. Arumugam, M. Vithal, "Preparation, Characterization, Magnetic susceptibility (Eu, Gd and Sm) and XPS studies of $Ln_2ZrTiO_7$ (Ln = La, Eu, Dy and Gd)", ***J. Solid State Chem. 184 (2011) 264–272.*** |
| **14** | G. Ravi , Suresh Palla, J. R. Reddy , Naveen Kumar Veldurthi, **B. Vijaya Kumar**, M. Vithal "Photocatalytic and Conductivity Studies of $Bi^{3+}$ Substituted $La_2Zr_2O_7$", ***Int. J. Green Nanotech. 4 (2012) 360–367.*** |
| **13** | **B. Vijaya Kumar**, Radha Velchuri, V. Rama Devi, G. Prasad, B. Sreedhar, C. Bansal, and M. Vithal "Preparation, characterization, emission ($Eu^{3+}$) and ESR ($Gd^{3+}$) studies of $Y_{2-x}Ln_xTi_2O_7$ (Ln = Eu and Gd, x = 0.0, 0.05)", ***J. Applied Physics 108 (2010) 044906*** |
| **12** | **B. Vijaya Kumar**, Radha Velchuri, G. Prasad, B. Sreedhar, K. Ravikumar, M.Vithal, "Preparation, characterization, photoactivity and XPS studies of $Ln_2ZrTiO_7$ (Ln = Sm and Nd)" ***Ceram. Inter. 36 (2010) 1347–1355.*** |
| **11** | **B. Vijaya Kumar**, Radha Velchuri, G. Prasad, M. Vithal, **"**Preparation, Characterization, spectral and conductivity studies of $Na_3MgZr(PO_4)_3$ and $Na_{0.1}H_{2.9}MgZr(PO_4)_3$" ***Ceram. Inter. 35 (2009) 2719–2725.*** |
| **10** | V Rama Devi, B Vijaya Kumar, Radha Velchuri, Palla Suresh, G Ravi' M Vithal, "Effect of Crystallite size on Electron Spin Resonance of $Gd^{3+}$ and Luminescence of $Eu^{3+}$ doped in $La_6WO_{12}$" ***Indian J. Eng. Mater. Sci. 19 (2012) 204-208.*** |
| **9** | Radha Velchuri, **B. Vijaya Kumar**, V. Rama Devi, G. Prasad, D. Jaya Prakash, M. Vithal "Preparation and Characterization of Rare Earth Orthoborates, $LnBO_3$ (Ln = Tb, La, Pr, Nd, Sm, Eu, Gd, Dy, Y) & $LaBO_3$: Gd, Tb, Eu by Metathesis Reaction: ESR of $LaBO_3$: Gd and Luminescence of $LaBO_3$: Tb, Eu", ***Mater. Res. Bull. 46 (2011) 1219–1226*** |
| **8** | N. Anantharamulu, K. Koteswara Rao, G. Rambabu, **B. Vijaya Kumar**, Velchuri Radha, M. Vithal, "A wide-ranging review on Nasicon type materials" ***J. Mater Sci. 46 (2011) 2821–2837.*** |
| **7** | Radha Velchuri, **B. Vijaya Kumar**, V. Rama Devi, D. Jaya Prakash, M. Vithal "Solid-State Syntheses of Rare-Earth-Doped $Sr_{1-x}Ln_{2x/3}MgP_2O_7$ (Ln = Gd, Eu, Dy, Sm, Pr, and Nd; x = 0.05) by Metathesis Reactions and their Spectroscopic Characterization" ***Spectroscopy Letters, 44 (2011) 258–266.*** |
| **6** | Radha Velchuri, **B. Vijaya Kumar**, V. Rama Devi, G. Prasad, M. Vithal, "Solid state metathesis synthesis of $BaTiO_3$, $PbTiO_3$, $K_{0.5}Bi_{0.5}TiO_3$ and $Na_{0.5}Bi_{0.5}TiO_3$" ***Ceram. Inter. 36 (2010) 1485–1489.*** |
| **5** | Radha Velchuri, **B. Vijaya Kumar**, V. Rama Devi, Sang Il Seok, M. Vithal, "Low temperature preparation of $NaTi_2(PO_4)_3$ by sol-gel method" ***Int. J. Nanotechnol., 7 (2010) 1077-1086.*** |

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| **4** | V. Rama Devi, Radha Velchuri, **B. Vijaya Kumar**, K. Ravikumar, M. Vithal, "Low-temperature Sol-Gel Synthesis of bulk and nanosized $NbTi(PO_4)_3$", ***Synthesis and Reactivity in Inorganic Metal-Organic and Nano Metal Chemistry 40 (2010) 883–887.*** |
| **3** | Radha Velchuri, **B. Vijaya Kumar**, V. Rama Devi, K. Ravi Kumar, G. Prasad, M. Vithal, "Low temperature preparation and characterization of $In_{1-x}Ln_xBO_3$ (x = 0.0 and 0.05; Ln = Gd, Eu, Dy and Sm): ESR of $In_{0.95}Gd_{0.05}BO_3$ and emission of $In_{0.95}Eu_{0.05}BO_3$" ***Spectrochimica Acta Part A 74 (2009) 726–730.*** |
| **2** | N Anantharamulu, **B Vijaya Kumar**, V Rama Devi, T Sarojini, Ch Anjaneyulu, M Vithal, "Preparation and characterization studies of metaborates $Cu_{1-x}M_xB_2O_4$ (M = Ni, Co and Mn; x = 0, 0.1 and 0.5)" ***Bull. Mater. Sci., 32, (2009) 1–10.*** |
| **1** | N. Anantharamulu, **B. Vijaya Kumar**, V. Rama Devi, M. Vithal, "Preparation, characterization and spectral studies of $Cr_{1-x}Eu_xBO_3$ ($x$ = 0, 0.01 and 0.05)" ***Mater. Chem. Phys. 108 (2008) 319–324.*** |

16. **Conferences/workshops/ seminars/Training Programs etc. attended.**

| **Name of the Seminar attended** | **National/ International** | **Duration** | | **Venue** |
|---|---|---|---|---|
| | | From | To | |
| National Conference on Physics and Chemistry of Materials | National | 16-03-2023 | 18-03-2023 | Govt. Holkar (Model Autonomous) Science College, Indore |
| International winter school 2022 on Frontiers in Materials Science | International | 05-12-2022 | 09-12-2022 | JNCASR, Bangalore |
| Current Trends and Futuristic Challenges in Chemical Sciences | International | 29-07-2022 | 30-07-2022 | Hyderabad |
| International conference on Emerging Trends in Spectroscopic Techniques and their Applications | International | 03-12-2018 | 04-12-2018 | Hyderabad |
| International Conference on "Drugs for the Future: Infectious Diseases | International | 27-03-2014 | 28-03-2014 | Hyderabad |
| Recent Advances in Chemical Research (NCRACR) | National | 6-2-2009 | 7-2-2009 | Hyderabad |
| Recent trends in Nanostructured Materials and their Applications (ICRNM) | International | 19-12-2008 | 20-12-2008 | Hyderabad |
| Nano, Bio and Materials Sciences (ICONBMS-2014) | International | 08-1-2014 | 10-01-2014 | Hyderabad |
| Chemistry and Physics of Materials | International | 30-11-2009 | 5-12-2009 | Bangalore |
| Academia-Industry Interface | National | 06-08-2014 | 06-08-2014 | Hyderabad |
| Materials For Energy Enabling Technologies | National | 30-08-2008 | 30-08-2008 | Hyderabad |

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|---|---|---|---|---|
| New Dimensions in Chemical Sciences | National | 30-01-2010 | 30-01-2010 | Hyderabad |
| Teaching and Learning for Excellence | National | 17-07-2012 | 19-07-2012 | Warangal |
| Computational Drug Design | National | 3-4-2014 | 04-04-2014 | Hyderabad |

**Signature**