

Name of Teaching Staff : Dr.(Mrs.) Ankita Banerji Jain
Designation : Assistant Professor
Department : Humanities and Science Department
(Physics)



Date of Joining the Institution : 11.07.2011

Qualifications with Class Grade :
1. Ph.D. (Physics) from BARC - University Of Mumbai, in 2009.
2. M.Sc (Physics) from University of Mumbai, in 2002, (63.8%).
3. B.Sc. (Physics) from K.J. Somaiya College of Science & Commerce, University of Mumbai in 2000 (66.7%).

Total Experience in Years : **Teaching: 8 yrs**
1. Assistant Professor D. J. Sanghvi College of Engineering from 11.7.2011.
2. Lecturer VJTI. from August 2010 to May 2011.

Research: 6 yrs

Bhabha Atomic Research Centre from May, 2003 to June 2010.

Papers Published : **International: 6**

1. High pressure study of Pentaerythritol: a synchrotron infrared study, S.K. Deb, **Ankita Banerji**, R.J. Kshirsagar, S.M. Sharma, P.Dumas,T.Marin,J.C. Chervin and B. Canny; Infrared physics and technology 49(2006)82.
2. Raman Scattering Study of High Pressure Phase Transition in Thiourea; **Ankita Banerji** and S.K. Deb; Journal of Physical Chemistry B 111 (2007)2643.
3. Order-disorder transition in $Nd_{2-y}Gd_yZr_2O_7$ pyrochlore solid solution: an X-ray diffraction and Raman spectroscopic study; B.P. Mandal, **Ankita Banerji**, Vasant Sathe, S.K. Deb and A.K. Tyagi Journal of solid state chemistry 180(2007) 2643.
4. Raman, XRD and SEM investigation on $CeO_2-Lu_2O_3$ and $CeO_2-Sc_2O_3$ systems: A Subsolidus Phase evolution study V. Grover, **Ankita Banerji**, P. Sengupta and A.K. Tyagi Journal of solid state chemistry 181 (2008) 1930.
5. $CeO_2-Gd_2O_3$ system: Unravelling of microscopic features by Raman spectroscopy; **Ankita Banerji**, Vinita Grover, Vasant Sathe, A.K. Tyagi and S.K. Deb Solid state communication 149 (2009)1689.
6. Pressure induced structural stability studies on $Nd_2Zr_2O_7$ pyrochlore; **Ankita Banerji**, B.P. Mandal T.N. Sairam and A.K. Tyagi Solid state communications 151 (2010)321.

Papers Presented in Conferences

: **National: 15**

1. Raman scattering study of $\text{Ce}_{0.775}\text{Nd}_{0.225}\text{O}_{2-y}$ at high pressure; Ankita Banerji, S.K. Deb, S.V. Chavan and A.K. Tyagi, Proceedings of the DAE Solid State Physics Symposium (2005), Vol.50pp. 121-122.
2. Raman scattering and Infrared absorption studies of $\text{Nd}_2\text{Zr}_2\text{O}_7$; Ankita Banerji, T.N. Sairam, C.S. Sunder and S.K. Deb Proceeding of the DAE Solid State Physics Symposium (2006), Vol.51pp. 149-150.
3. Raman scattering study of $\text{Ba}_{0.7}\text{Hf}_{0.3}\text{TiO}_3$ at high pressure, Meenakshi Kumari, Ankita Banerji, A.K. Tyagi and S.K. Deb, Proceedings of the DAE Solid State Physics Symposium (2006), Vol.51pp. 167-168.
4. XRD and Raman spectroscopy studies in $\text{Gd}_{2-x}\text{Nd}_x\text{Zr}_2\text{O}_7$. B.P. Mandal Ankita Banerji S.K. Deb and A.K. Tyagi. Proceedings of the DAE Solid State Physics Symposium (2006), Vol.51, pp 113-114.
5. Raman scattering and X-ray Diffraction Study of $\text{CeO}_2\text{-Gd}_2\text{O}_3$ Solid Solution; Ankita Banerji, Vinita Grover, Vasant sathe, A.K. Tyagi and S.K. Deb. Proceedings of DAE-BRNS International Symposium on Materials Chemistry (2006), pp.267-271.
6. High pressure study of Pentaerythritol: a synchrotron infrared study. S.K. Deb, Ankita Banerji, R.J. Kshirsagar, S.M. Sharma, P.Dumas, T.Marin, T. Marin, J.C. Chervin and B. Canny, Proceedings of the DAE Solid State Physics Symposium (2003), Vol.46.pp.7-8.
7. Raman scattering Study of high-pressure phase transition in Thiourea; Ankita Banerji and S.K. Deb. Proceeding of the DAE Solid State Physics Symposium (2004), Vol.49, pp.121-122.
8. Raman Scattering Study of Order-Disorder Transition in Pentaerythritol; Anikta Banerji , T. Sakuntala and S.K. Deb Proceedings of the DAE Solid State Physics Symposium (2004), Vol.49, pp.145-146.
9. Raman Scattering Study of Nanocrystalline $\text{Ce}_{1-x}\text{Nd}_x\text{O}_{2-y}$ at high pressure; Ankita Banerji, Vinila Bedekar, A.K. Tyagi and S.K. Deb. Advanced Nanomaterials 2007: An International Conference on Experimental Condensed Matter Physics, pp.129-130.
10. High pressure study of Pentaerthritol: a synchrotron infrared sudy; S.K. Deb, Ankita Banerji, R.J. Kshirsagar, S.M. Sharma, P.Dumas, T.Marin, J.C. Chervin and B. Canny WIRMS 2005 International workshop on Infrared microscopy and spectroscopy with accelerator based sources., Oral presentation, presented by Ankita Banerji Abstract book page no.72.

11. Raman scattering study of high-pressure phase transition in Thiourea; Anikta Banerji and S.K. Deb; presented in ICORS 2006.
12. Raman scattering study of Order-Disorder Transition in Pentaerythritol; Anikta Banerji, T. Sakuntala and S.K. Deb; presented in ICORS 2006.
13. XRD and Raman spectroscopy studies in $Gd_{2-x}Nd_xZr_2O_7$; B.P. Mandal, Ankita Banerji, S.K. Deb and A.K. Tyagi; presented in ICORS 2006.
14. High pressure Raman spectroscopic study of $Zn(CN)_2$; Ankita Banerji, A.K. Tyagi, S.K. Deb; presented in XIII AIRAPT-International Conference on High Pressure Science & Technology.
15. High Pressure Raman spectroscopic study of $Zn(CN)_2$; Ankita Banerji, A.K. Tyagi, S.K. Deb; presented in First Asian spectroscopy conference and Asian Biospectroscopy conference ASC 2007.

FDP Programmes attended:

1. Participated and secured Elite certificate in Faculty Development Programme ONLINE NPTEL Course funded by the Ministry of HRD. Govt of India (12 weeks) on Non Conventional Energy Resources April 2019.
2. Participated and secured Silver Elite certificate in Faculty Development Programme ONLINE NPTEL Course funded by the Ministry of HRD. Govt of India (12 weeks) on Introduction to Cognitive Psychology April 2019.
3. Participated and secured Elite certificate in Faculty Development Programme ONLINE NPTEL Course funded by the Ministry of HRD. Govt of India (8 weeks) on Biology for Engineers Oct 2018.
4. Participated and secured Elite certificate in Faculty Development Programme ONLINE NPTEL Course funded by the Ministry of HRD. Govt of India (8 weeks) on Leadership Oct 2018.
5. Attended AICTE-ISTE approved and sponsored Induction/Refresher Programme on “Innovative Teaching Learning Practices to achieve Outcome based Education and Accreditation” during 3rd May – 9th May 2018 at Sardar Patel Institute of Technology, Andheri (w), MUMBAI.
6. Attend the AICTE-ISTE approved and sponsored Induction/Refresher Programme on “*Inclusion of Nanotechnology in various commercial arena*” during 2nd July– 7th July 2018 at K. J. Somaiya Institute of Engineering and Information Technology, Sion (e), MUMBAI.

7. Attended 4 Days INUP familiarization workshop to get hands on experience on various fabrication techniques from 29th Nov-1st Dec 2017 at IIT MUMBAI.
8. Attended Two week ISTE Short Term Training Programme on "Engineering Physics" conducted by IIT MUMBAI from 8th December-18th December, 2015 held under the National Mission on Education through ICT (MHRD) at the centre of Mukesh Patel School of Technology Management & Engineering, Vileparle (w), MUMBAI.
9. Attended an AICTE approved 2 week FDP on "Electronic System Design: From Devices to Application" held during 4th May – 15th May 2015 at Sardar Patel Institute of Technology, Andheri (w), MUMBAI.

Programmes Organized : 2-day Faculty Development Programme on "Active Teaching Learning Strategies Using Innovative Technology" was coordinated during 25th-26th February, 2019

Professional : Lifetime ISTE Member

Memberships

Awards : Awarded Junior Research --
Fellowship (**JRF, 2003- 2005**) by
CSIR, New Delhi, India.
Awarded Senior Research
Fellowship (**SRF, 2005- 2008**) by
CSIR, New Delhi, India.