

SAI VIDYA INSTITUTE OF TECHNOLOGY

Rajanukunte, Doddaballapura Road, Bengaluru-64, Karnataka



A REPORT

ON

Webinar - "Experimental Data analysis and interpretations (Part-1) :

PXRD and SEM"

Organised by

Department of Physics

Coordinated by

1. PROF.NAYANA B L

Held at

Sai Vidya Institute of Technology

On

27th July 2020

2020-2021

A REPORT "**Experimental Data analysis and interpretations (Part-1) : PXRD and SEM**"

Coordinated by: **PROF. NAYANA BL**

Name of the convener: **Dr. Yogananda H S**

Held at **Sai Vidya Institute of Technology** on **19th Oct 2020**

Resource Person Name: **Dr. Daruka Prasad B**

Affiliation: **BMS Institute of Technology & Management, Avalahalli, Bengaluru-64.**

Academic Year: **2020-2021**

Signature of the Coordinator with date:

Signature of the HOD with date:

Signature of the Head-IQAC with date:

Signature of the Principal with date:

Report on “Experimental Data analysis and interpretations (Part-1) : PXRD and SEM”

A webinar on “**Experimental Data analysis and interpretations (Part-1) : PXRD and SEM**” was organized by Department of Physics, SVIT on 27th July 2020 with **Dr. Daruka Prasad B**, Assistant Professor, Department of Physics, BMS Institute of Technology & Managements, Bengaluru as a guest speaker. The programme started with welcome note by the HOD, Physics **Dr. Shankar P**, who stressed upon the importance of gaining knowledge and the learning process involved by attending webinar of this kind. SVIT encourages for new research areas, developing projects leading to publications in National/International Journals and conferences. Established R & D departments at the Institution level will promote Research & Innovation among the faculty & also research scholars.

The guest speaker **Dr. Daruka Prasad B** is presently working as an Assistant Professor, Department of Physics, BMS Institute of Technology & Managements, Bengaluru. He holds a Ph.D in Physics from JNTU Ananthapur , His research interests are in the areas of ecofriendly, energy saving, composite materials ,battery technology, electrical and magnetic properties and applications in display devices and dosimetry. He has published around 105 research articles in international journals of high repute. He has granted a project of 5lakhs from KCST under research grant for talented teachers.

The **Content** of the webinar were as follows:

- Introduction of nano Materials
- Experimental data analysis
- Material characterization
- XRD, emperimental data analysis to find phase, (h k l) and particle size determination.
- Retvilied refinement using FULL PROOF software
- Crystallite size determination by TEM using IMAGE J software

Objectives and Learning outcomes

The main intention of this webinar is to provide an interdisciplinary forum for academicians, faculty, researchers and students engaged in the full spectrum of research to discuss innovations and challenges in Science and Technology.

The objective of this webinar was to understand how experimental data for nano material characterization has to be analyzed. First discussion regarding the types of nano material based on dimensions. The basic characterisation tools like PXRD , SEM and TEM analysis using different software tools . In PXRD the crystallite size determination, miller indices (h k l) determination , phase identification were discussed. In TEM the particle determination was discussed.

As a learning outcome, the webinar aims to provide opportunities to faculty members and research scholars to enrich their knowledge in the field of research. The webinar of this kind helps in monitoring and assessing their own learning to achieve the desired outcome. Towards the end of the session participants were able to know the basic experimental data analysis for characterization of nano materials.

Audience

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Schedule/Time Table/Flow



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conducting a webinar on

Experimental Data analysis and interpretations (Part-1) : PXRD and SEM

Faculty members/research scholars/students of Engineering and science degree colleges can attend the webinar

Date : 19/10/2020 (Monday)
Time : 11.30 am to 1.00 pm
Platform : Google Meet
Registration: Free
Registration link

<https://forms.gle/jsXzkEBuij1GPDuH7>

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Note:

- E-Certificate will be issued immediately to the participants after submitting the feedback form.
- Further instruction will be shared in the whatsapp group: <https://chat.whatsapp.com/liQQUtXQ1hVLA7Sr7blgf>

Dr. Yogananda H S
Convener

Dr. Shankar P
HOD

Dr. Ramesh Babu H S
Principal

Participants feedback Summary

| Email ID | Full Name | Institution | Place | WhatsApp number | Overall feedback on Webinar | Was the knowledge given by the Resource Person Useful | Which topic do you think should be covered in future session/ Any other suggestions. |
|------------------------------------|-------------------------------|---|----------------------|-----------------|-----------------------------|---|--|
| kiranphy18@gmail.com | Dr. KS KIRAN | Faculty of Engineering and Technology, Jain Deemed to be university | Bangalore | 9448419437 | Excellent | Excellent | advancded materisl |
| bhagwannavale@yahoo.in | Navale Bhagwan Bhanudas | Vidnyan Mahavidyalaya Sangola | Sangola | 9860477067 | Excellent | Very good | Material Science |
| sunitharn7@gmail.com | Ms. SuneethaRani N | Sri venkateshwara college of engineering | Bengaluru | 9743337228 | Excellent | Excellent | No suggestions |
| KUMAR.BHATT@gecdah.onmicrosoft.com | KUMAR KAMALBABU BHATT | Government Engineering College, Dahod | Dahod | 9426523372 | Excellent | Excellent | Metal Matrix Nano Composites |
| lsr.yadav@gmail.com | Lakshmi Sagar Reddy Yadav R R | BMSIT &M | Banagalore | 9731282954 | Excellent | Excellent | yes |
| cnmoorthi1975@yahoo.com | Mr.C.NATES AMURTHI | Bharathidasan Engineering College, Nattrampalli, Tirupattur Dt. | Tirupattur | 9790022606 | Excellent | Excellent | Renewable Energy sources |
| ashwinis86@gmail.com | Dr. Ashwini S | Channabasaveshwara Institute of Technology | Gubbi | 9481060677 | Excellent | Excellent | About diamond software |
| silpa.tn@gmail.com | SILPA TN | KNSIT | Banglore | 9538100981 | Very good | Very good | Good session.. helpful for beginners in reasearch |
| paribbsvishwa@gmail.com | PARIMALA B S | R I T | BENGALURU | 9481471998 | Very good | Excellent | SEM in detail by screen sharing |
| sathishphy79@gmail.com | Dr.M.SATHISH | GFGC,Doddaballapur-561203,Bangalore Rural District. | Doddaballapur-561203 | 9972743762 | Excellent | Excellent | Nanotechnology |
| savitha.v@atria.edu | SAVITHA V | ATRIA INSTITUTE OF TECHNOLOGY | BANGALORE | 8618721354 | Very good | Very good | Reaction cross sections |
| bhavyakajava@gmail.com | Dr. BHAVYASHRISHETTY | Don Bosco Institute of Technology | Bangalore | 9901002604 | Excellent | Very good | Nil |
| n.maruthi@jainuniversity.ac.in | MARUTHI N | FET, JAIN(Deemed -to-be University) | Bangalore | 9844429295 | Excellent | Excellent | XRD interpretation |

| | | | | | | | |
|----------------------------|-------------------------|--|-----------------------|------------|-----------|-----------|---|
| manjunatha.nk16@gmail.com | Manjunatha N K | Sri Venkateshwara College of Engineering | Bengalore | 9535530365 | Excellent | Excellent | Single Crystal XRD |
| maheshd@gat.ac.in | Mahesh D | Global Academy of Technology | Bangalore | 9986822214 | Very good | Very good | Dielectric properties |
| puni.manu@gmail.com | Puneetha J | JSS Academy of Technical Education | Bengaluru | 9964648937 | Good | Good | WH model calculation |
| kanchana.sk@atria.edu | Mrs. KANCHANA SK | ATRIA INSTITUTE OF TECHNOLOGY | BENGALURU | 9731733002 | Excellent | Excellent | Thank you for the informative session |
| venkiphysics@bmsit.in | Dr. R. Venkatesh | BMS Institute of Technology and Management | Bengaluru | 9449305754 | Excellent | Excellent | .. |
| yogananda.hs@saividy.ac.in | Yogananda HS | SVIT | blore | 1234567892 | Excellent | Excellent | sfghf |
| nnavya2929@gmail.com | Navya N | Navya N | Bengaluru | 7619457946 | Very good | Very good | Liquid crystals |
| hari11322@gmail.com | Harisha G | jnanajoyhi pu college | yellahanka banagalore | 9008559919 | Excellent | Excellent | we get it more information of XRD |
| shivraj.watage@atria.edu | Dr Shivaraj Madivalappa | Atria Institute of technology | Bangalore | 9742337080 | Excellent | Very good | It was informative |
| sunil.simha142@gmail.com | Mr SUNIL KUMAR N B | Bapuji Educational Association Davanagere | Davanagere | 9964603142 | Excellent | Very good | Good information... detailed information about experimental study of pxrd and tem.. |
| star1kjm@gmail.com | MADHU K.J | Electronic Media Department , Bangalore University | Bangaluru | 9986668313 | Excellent | Excellent | All |
| koushalyagowda@gmail.com | KOUSHALYA P R | Don Bosco Institute of Technology | Bangalore | 8792365080 | Very good | Very good | Other structural analysis |
| chethan.pb@atria.edu | CHETHAN P B | Atria Institute of Technology | Bengaluru | 9740283732 | Excellent | Very good | It was informative session on XRD measurement data analysis. |
| sskphy@git.edu | Dr. SUDHEENDRA KULKARNI | KLS GOGTE INSTITUTE OF TECHNOLOGY, BELAGAVI | BELAGAVI | 9448863772 | Very good | Excellent | FTIR |
| khadersku@gmail.com | Dr.S.Abdul Khader | Govt.Science College, Chitradurga. | Chitradurga-577501 | 9980787658 | Excellent | Excellent | Magnetic measurements related |
| jjyotiroy@bmsit.in | Dr. Jyoti Roy Choudhuri | BM S Institute of Technology and Management | Bangalore | 8296799794 | Excellent | Excellent | Very nice |

| | | | | | | | |
|----------------------------------|---------------------------|---|---------------|------------|-----------|-----------|------------------------------|
| bp.prasanna@jainuniversity.ac.in | Dr. Prasanna B P | FET, Jain Deemed to be University | Bengaluru | 8660899907 | Very good | Very good | Overall it was good session |
| hemanthreddy021@gmail.com | M V Hemantha Reddy | Dr. Ambedkar Institute of Technology , Bangalore-56 | Bangalore | 9535451183 | Excellent | Excellent | Rietveld refinement research |
| hlppushpalatha@gmail.com | PUSHPALATHA H L | Cambridge Institute of Technology | Bengaluru | 9945890111 | Very good | Very good | FTIR |
| v.sanjay005@gmail.com | SANJAY V | S J C INSTITUTE OF TECHNOLOGY | Chickballapur | 9902914191 | Excellent | Excellent | FTIR |
| karthikr@vvce.ac.in | KARTHIK R | VVCE | Mysuru | 9900237686 | Excellent | Excellent | None |
| shwethaprabhakarrrao@gmail.com | Shwetha K P | DBIT | Bangalore | 9916316164 | Excellent | Excellent | No Suggestion |
| abhishekseeei1999@gmail.com | Abishek G Seeri | Poojya Dodappa Appa college of engineering | Kalaburagi | 8123421114 | Very good | Very good | Good |
| dbjani@rediffmail.com | JANI DILIP BATUKRAY | Government engineering college dahod | dahod | 9428044640 | Excellent | Excellent | excellent |
| bhavyap26@gmail.com | Dr Bhavya P | New Horizon College of Engineering | Bangalore | 9740944567 | Excellent | Excellent | Areas of high scope research |
| teju.chemistry@bmsit.in | Tejaswini.N | BMSIT&M | Bangalore | 9880125572 | Very good | Very good | . |
| drr.deva@gmail.com | DEVARAJA C | Sapthagiri College of Engineering | Bengaluru | 9591211267 | Very good | Very good | PXRd |
| ashwinichav@gmail.com | ASHWINI CHAVAN V M | Don Bosco institute of technology | Bangalore | 7892607294 | Good | Excellent | Ionic conductivity |
| leelarahini185@gmail.com | R. Leela Rahini | The Oxford College of Engineering | Bangalore | 9036441780 | Excellent | Excellent | Thin film Physics |
| raveendra.rs@saividya.ac.in | Raveendra R S | Sai Vidya Institute of Technology | Bengaluru | 9880796678 | Excellent | Excellent | Nil |
| pst786@yahoo.com | Dr. Parvin Arif Shaikh | Rayat Shikshan Sanstha's Dahiwadi College, Dahiwadi | Dahiwadi | 9850558890 | Excellent | Excellent | No |
| shreedharakm60@gmail.com | SHREEDHAR A K M | Vijayanagara college | Hosapet | 8497055950 | Excellent | Excellent | Nano materials |
| varsha.manvatkar@gmail.com | Varsha Dashrath Manvatkar | GDM ARTS, SHRI KRN COMMERCE & MD SCIENCE COLLEGE, JAMNER. DIST- JALGAON | JALGAON | 9561246020 | Good | Good | INFORMATIVE SESSIONS |
| sowmyapt@vvce.ac.in | Dr. Sowmya P T | Vidyavardhaka College of Engineering | Mysuru | 9008196715 | Excellent | Excellent | NIL |

| | | | | | | | |
|---------------------------------------|----------------------|---|-------------------------------|------------|-----------|-----------|--|
| anil.adiani@gmail.com | Dr. ANIL S. PATIL | KLE DR. M S Sheshgiri College of Engineering and Technology | Belagavi. | 9844260691 | Very good | Very good | Open Access tools to analyze samples |
| madhushriav@gat.ac.in | Madhushri A V | Global Academy of Technology | Bangalore | 8951911136 | Very good | Excellent | writing paper |
| irammapatil75@gmail.com | Iramma G Patil | Govt autonomous college kalburgi | Kalburgi | 9900716829 | Very good | Very good | Nano technology |
| prameshklr@gmail.com | RAMESH P | Government College for Women Kolar | Kolar | 9449214335 | Excellent | Excellent | improvement of audio is required. |
| rhosdodde@gmail.com | Rajkumar Hosdodde | Govt. First Grade College Manhalli | Manhalli Tq & Dist. Bidar(KS) | 9482122841 | Excellent | Excellent | Quantum mechanics |
| ndhananjayas@bmsit.in | Dhananjaya N | BMS Institute of Technology and Management | Bengaluru | 9036840280 | Excellent | Excellent | Good topic for the beginners in the research field |
| krishnamurthy74@gmail.com | | Bmsit | Bangalore | 9902558367 | Excellent | Very good | . |
| shanthalasastry@gmail.com | Dr.Shanthala V.D. | The Oxford college of engineering | Bangalore | 9880820145 | Excellent | Very good | Recent research in physics |
| venkateshg@ewce.edu.in | VENKATESH G | East West College of Engineering | Bangalore | 9945334725 | Excellent | Excellent | X ray & SEM |
| pdarshini@gsss.edu.in | Priyadarshini K M | GSSSIETW | Mysore | 9964932005 | Good | Very good | Nil |
| raju_nv@gat.ac.in | Dr N V RAJU | GLOBAL ACADEMY OF TECHNOLOGY | BENGLURU | 9900110788 | Excellent | Excellent | FTIR |
| tanveerfatima13@gmail.com | Dr Tanveer Fatima | Department of physics, Gulbarga University, kalburagi | Gulbarga University, Gulbarga | 9686387076 | Excellent | Excellent | FTIR Analysis |
| sudha246.s@gmail.com | Sudhakar .S | Cambridge institute of technology | Bangalore | 8970116368 | Excellent | Excellent | - |
| prashanth.sadashivappa@gmail.com | Dr Prashanth K S | NHCE | Bangalore | 9986248364 | Very good | Very good | Other characterisation techniques |
| yashodha.sr@gmail.com | Yashodha S R | Don Bosco Institute of Technology | Bengaluru | 9980677995 | Good | Very good | - |
| prasannaujjval@gmail.com | Lakshmi prasanna H R | Presidency University | Bangalore | 9448842294 | Excellent | Excellent | Data analysis |
| ayanglajamir@nagalanduniversity.ac.in | AYANGLA JAMIR | School of Engineering and Technology, Nagaland University | Dimapur, Nagaland | 8119020134 | Excellent | Excellent | TEM analysis |
| sharathsharaths007@gmail.com | Sharath S | University Visvesvaraya College of engineering | Bangalore | 9972916747 | Very good | Excellent | Interpretation |

| | | | | | | | |
|------------------------------------|------------------------|---|---------------|------------|-----------|-----------|---|
| bhagya.np@saividy.ac.in | Bhagya N P | Sai Vidya Institute of Technology | Bangalore | 9449438644 | Excellent | Excellent | no |
| kpsrinivasahm@gmail.com | SRINIVASA H M | Presidency college, Bangalore | Bangalore | 9740740060 | Excellent | Very good | Traffic management |
| manjubc44@gmail.com | Prof. Manjunatha B C | S J C Institute of Technology | Chickballapur | 9686354149 | Excellent | Excellent | Organize one characterization techniques like electrical, magnetic etc. |
| imesangla@nagalanduniversity.ac.in | Imesangla Ao | School of Engineering Technology, Nagaland University | Dimapur | 9615826725 | Good | Good | Nanotechnology |
| bannurmahesh7@gmail.com | Dr. Maheshkumar Bannur | KLS V DIT, Haliyal | Dharwad | 9900111638 | Excellent | Excellent | Good |
| apsarpasha1982@gmail.com | Dr. Apsar Pasha | Ghousia College of Engineering | Ramanagara | 8892463103 | Excellent | Excellent | na |
| vvignesh.19me@saividy.ac.in | V VIGNESH | Sai vidya institute of technology | Bangalore | 7338030843 | Excellent | Excellent | Any related topics |
| physicssiddu@gmail.com | Dr SHRIDHAR MATHAD | KLE institute of technology | Hubballi | 9886347873 | Excellent | Excellent | Magnetic studies, XPS, other analysis |
| pavithrajnv@gmail.com | PAVITHRA J | K. S. School of Engineering and Management | Bengaluru | 9972182908 | Very good | Very good | Good |
| anilkumara.kv@saividy.ac.in | Anil Kumara K V | Sai Vidya Institute Of Technology | Bangalore | 9591320346 | Excellent | Excellent | No |
| asha.chemistry@gmail.com | Asha S C | Amruta Institute of Engg & Management Sciences | Bangalore | 9620384752 | Very good | Very good | Good |
| sachvanillas@gmail.com | Mr. Sachin | Maharaja institute of Technology Thandavapura | Mysore | 9036869569 | Excellent | Very good | Nanofilms and characterization |
| Smithamgrao@gmail.com | SMITHA M G | RNS INSTITUTE OF TECHNOLOGY | Bengaluru | 9844119176 | Excellent | Excellent | TEM, HRTEM |
| nagendraeco@yahoo.com | NAGENDRAI AH | Govt. First Grade college Chickballapur | Chickballapur | 9986851269 | Excellent | Excellent | Nil |
| khhemakumarchemisttry@gmail.com | Dr. HEMAKUMAR K H | Cambridge Institute of Technology | Bengaluru | 9964074899 | Excellent | Excellent | no |
| hariphy33@gmail.com | G Harisha | Janajothi pu college | Yelahanka | 8618833992 | Excellent | Excellent | Good |
| hemalathapsgowda@gmail.com | Dr. Hemalatha K | Maharani's Science College for Women | Mysuru | 9900717808 | Very good | Very good | Good. Keep it up. Thank you |
| jyoti.rayar@gmail.com | Jyoti N Rayar | Sri Venkateshwar College of Engineering | Bangalore | 9742452892 | Very good | Very good | Application of Nano |

| | | | | | | | |
|-----------------------------------|-----------------------|--|---------------|------------|-----------|-----------|--|
| shivakumarj225@gmail.com | Dr. Shivakuma J | Government Science College, | Hassan | 7829033677 | Very good | Excellent | Rietveld refinement of monoclinic structures |
| sureshkumarmr.rvitm@rvei.edu.in | Dr. Suresh Kumar M R | R V I T M | Bengaluru | 9886431547 | Very good | Very good | no |
| fatimabutul4@gmail.com | Fatima Butul | government degree(autonomous) college kalaburgi | kalaburgi | 8105112206 | Very good | Very good | Biophysics |
| kuppulingam84@gmail.com | Dr. B. Kuppulingam | M. S. Engineering College | Bangalore | 9500441682 | Very good | Very good | Nanomaterials |
| tn.vinuthraj@jainuniversity.ac.in | VINUTH RAJ T N | Jain University | Bangalore | 9845522808 | Excellent | Excellent | Good |
| shivakbn@gmail.com | Mr. Shivakumar BN | NCET, VTU | Bengaluru | 8618793877 | Good | Good | XRD Graph analysis with the data in detail SEM data analysis. |
| hanu20777@gmail.com | Hanumanth araju N | Maharani's science college for women Bangalore | Bangalore | 9686467366 | Excellent | Excellent | Regarding identification of suitable journal for the content used for publication. |
| sardargbd@gmail.com | Lt Sardar pasha KR | GFGC, Yelahanka, Bengaluru - 560064. | Bengaluru | 9008912958 | Very good | Very good | Good |
| me_sandhyarania@rediffmail.com | Prof. Sandhyarani .A | Government Science College(Autonomous) | Bangalore | 9845775684 | Good | Good | Xrd |
| sseema311@gmail.com | Dr. Syeda Seema | Government College (Autonomous), Kalaburagi | Kalaburagi | 9916234377 | Excellent | Excellent | FTIR Studies |
| vinuthahr1989@gmail.com | VINUTHA H R | S J C INSTITUTE OF TECHNOLOGY | Chickballapur | 9164079530 | Very good | Very good | Characterisation techniques.. |
| chivukulasrik@gmail.com | Dr Chivukula Srikanth | Government college (Autonomous), Kalaburagi | Kalaburagi | 9019191816 | Excellent | Excellent | FTIR |
| mamthakssgowda@gmail.com | MAMATHA K S | Sri Venkateshwara College of Engineering | Bangalore | 8123030614 | Very good | Good | Spectroscopy |
| vaasu073@gmail.com | Chethana MV | SJBIT BENGALURU | BENGALURU | 9901257802 | Excellent | Excellent | Nice now |
| roopadevigwm@gmail.com | ROOPADEVIP | GCM, MANDYA | MANDYA | 9900795272 | Excellent | Excellent | NONE |
| prasannakumar230507@gmail.com | Prasanna kumar S G | M.S.Ramaiah College of Arts Science and Commerce | Bengaluru | 8197132950 | Excellent | Excellent | About TEM |
| jishasab13@gmail.com | Dr JISHA P.K | NEW HORIZON COLLEGE OF ENGINEERING | Bagalore | 9900192678 | Excellent | Excellent | TEM ,FTIR |

| | | | | | | | |
|---------------------------------|------------------------------|---|---------------|------------|-----------|-----------|--|
| shiprabhati@yahoo.com | Dr. Shipra Bhati | The Oxford College of Engineering | Bangalore | 9972394094 | Excellent | Excellent | Nano drug |
| vibhamadhava@gmail.com | Dr Vibha Vinayakumar Bhat | RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE | Bengaluru | 8095177155 | Very good | Excellent | Analytical techniques |
| mohan.g@saividyaa.ac.in | MOHAN G | Sai Vidya Institute of Technology | Bengaluru | 9902666422 | Excellent | Excellent | any interested topic |
| sripathyrayappa@gmail.com | SRIPATHY L | Vivekananda degree College | Bengaluru | 9480109221 | Very good | Excellent | No |
| btalakchandra@gmail.com | Dr. Batluri Tilak Chandra | Sri Siddhartha Institute of Technology | Tumkur | 9449949753 | Excellent | Excellent | SEM |
| drsavithahs@gmail.com | Dr. Savitha H S | Dr. Savitha H S | Bangalore | 9964770283 | Excellent | Excellent | Nano technology |
| girishkmpy@gmail.com | Dr. Girish K M | DSATM | Bangalore | 9880074068 | Very good | Very good | Tem |
| dbjani@rediffmail.com | Dr. D.B. Jani | Government engineering college Dahod | Dahod | 9428044640 | Excellent | Excellent | Excellent |
| udaykumar.hm@gmail.com | Udayakumar HM | Ramaiah Institute of Technology | Bangalore | 7204649004 | Excellent | Excellent | NA |
| hemalathadl@acharya.ac.in | HEMALATH A D L | Acharya Institute of Technology | Bangalore | 9742496692 | Excellent | Excellent | No. |
| bh_nanjundareddy@blr.amrita.edu | Dr. Nanjundareddy Ready B.H. | Amrita school of engineering | Bengaluru -35 | 7036137628 | Very good | Very good | May be FTIR, Thermal studies, such as TGA, DTA, UV/Visible, TEM, |
| akvcrm@gmail.com | MANJUNATHA C R | M S RAMAIAH INSTITUTE OF TECHNOLOGY | Bangalore | 9743396712 | Excellent | Very good | IR |
| shivakumarj225@gmail.com | Dr. Shivakumar J | Government Science college (Autonomous) | HASSAN | 1234567890 | Excellent | Excellent | good |
| pushpanbhat@gmail.com | Dr. Pushpavathi N | M S Engineering College | Bangalore | 7829737301 | Excellent | Excellent | Nanotechnology |
| madhumathys3167@gmail.com | MADHUMATHY.S | Government college for women | Kolar | 9482713900 | Excellent | Very good | Which is useful for all faculty |
| bh_nanjundareddy@blr.amrita.edu | Dr. Nanjunda Reddy B. H. | Amrita school of engineering | Bangalore | 1234567890 | Excellent | Excellent | good |
| raghunanda21075@gmail.com | Raghunanda Baburao | Govt. First Grade College Bidar | Bidar | 9916563111 | Excellent | Excellent | Thermal Characterisation techniques |
| ssdisha@gmail.com | Dr.P. Srinivas | Sri Mahadeshwara Govt First Grade College, Kollegal | Kollegal | 9060528919 | Excellent | Excellent | Nil |

| | | | | | | | |
|----------------------------------|----------------------------|--|-----------------|------------|-----------|-----------|--|
| veerannachem@gmail.com | Dr V R Kattimani | Basaveshwar Engineering College Bagalkot | Bagalkot | 9916022971 | Excellent | Excellent | Nano materials |
| suninair_hello@yahoo.co.in | Sunitha .N | City Engineering College | Bangalore | 9916230188 | Excellent | Excellent | SEM analysis |
| basawarajpatne@gmail.com | BASAWARAJ G Asst professor | GFGC KRPURAM BENGALURU | bangalore | 9481882907 | Excellent | Excellent | good topic |
| rohinib82@gmail.com | Dr.B.Rohini | New Horizon College of Engineering | Bangalore | 9535586307 | Very good | Very good | Simulation software technique |
| sushmakamath92@gmail.com | Sushma | MSEC,Bangalore | bangalore | 9535823905 | Very good | Very good | lcp |
| prabhakaliveera@gmail.com | Dr PRABHA K | U B D T COLLEGE OF ENGINEERING | Davanagere | 7899951155 | Very good | Very good | Nothing |
| vasusriranga@gmail.com | vasu | Vivekananda degree College | Bangalore | 9901079879 | Very good | Good | Every topic is important basics of science is required attention with. Practical component |
| chinnanjanj.19ec@saividyaa.ac.in | CHINNA NJ | Sai Vidya Institute of technology .BANGALORE | Gowribidanur | 9449002382 | Excellent | Very good | Nothing |
| sachin.sondur2012@gmail.com | SACHIN G SONDUR | Kls Vdit haliyal | Haliyal | 9538304390 | Very good | Excellent | Edax |
| mmche.skitblr@gmail.com | Dr. Manju M | Sri Krishna Institute of Technology, Bengaluru | Bengaluru | 9481184778 | Excellent | Excellent | Nano Materials |
| star1kjm@gmail.com | MADHU K.J | Electronic Media Department , Bangalore University | Bangaluru | 9986668313 | Excellent | Excellent | All |
| sunanda.dadami@gmail.com | Dr Sunanda Dadami | Govt science college NT Road Bangalore | Bangalore | 9481981955 | Very good | Very good | Practical session for refinement |
| metibharathi@gmail.com | MRS. METI.BHARATHI | Dr.Ambedkar Institute of Technology | Bengaluru | 8971793465 | Very good | Very good | Related topics |
| shivarajkumars1111@gmail.com | Shivarajkumar S | ACS college of engineering | Bangalore | 8147912744 | Excellent | Very good | Extended sessions |
| bggiridhar@gmail.com | BG GIRIDHAR | GOVERNMENT FIRST GRADE COLLEGE, NELAMANGALA, BANGALORE | BANGALORE RURAL | 9448706444 | Excellent | Excellent | In any branch in physical sciences. |
| veenapradeep10@gmail.com | Veena v s | G f g c nelmangala | Bangalore | 9591736814 | Excellent | Excellent | Nice program |
| kantharaj2553@gmail.com | Kantharaju S | SJR College of Science Arts and Commerce | Bengaluru | 9448510540 | Excellent | Excellent | Nil |

| | | | | | | | |
|--------------------------------|--------------------------------|--|----------------------|------------|-----------|-----------|--|
| shruthi.s9738@gmail.com | Shruthi S | Mysuru Royal Institute of Technology | Mandya | 9738411298 | Excellent | Excellent | No |
| pshindetj@gmail.com | Dr. Shinde Tukaram Jaysing | Smt. Kusumtai Rajarambapu Patil Kanya Mahavidyalaya, Islampur | Islampur | 9860735543 | Excellent | Excellent | Webinar on analysis of FTIR, TG-DTA |
| bkmahadeva@gmail.com | Mahadeva B K | Faculty of Engineering and Technology, Jain(deemed to be university) | Yadavana halli | 9844392876 | Very good | Very good | Please conduct the Determination of SEM and XRD of the samples |
| sathishphy79@gmail.com | Dr.M.Sathish | Government first grade college | Doddaballapur-561203 | 9972743762 | Excellent | Excellent | Nanotechnology |
| girishk77@yahoo.com | Dr. GIRISH K | Maharani's Science College for Women, JLB road, Mysuru | Mysuru | 9743665772 | Very good | Very good | NMR |
| srinivasyc.phy@eastpoint.ac.in | SRINIVAS Y C | EAST POINT COLLEGE OF ENGINEERING AND TECHNOLOGY | BENGALURU-49 | 9964228688 | Excellent | Excellent | No |
| abdulkhaderch@gmail.com | ABDUL KADAR C H | THE OXFORD COLLEGE OF ENGINEERING | BANGALORE | 966388452 | Excellent | Excellent | FTIR AND TEM |
| anursawant152@gmail.com | SAWANT ANURAG | MET BKC POLYTECHNIC NASHIK | NASHIK | 9545869348 | Very good | Very good | |
| vinayakganbavale@dkas.ac.in | Vinayak Vasant Ganbavle | Dattajirao Kadam Arts Science and Commerce College Ichalkaranji | Ichalkaranji | 9960073368 | Excellent | Excellent | Thanks for the opportunity to attend the webinar. |
| patilimageography@gmail.com | Dr Mahmedhusen Abdulgani Patil | Shri Vijaysinha Yadav College Pethvadgaon Dist Kolhapur | Kolhapur | 9860805705 | Excellent | Excellent | All |
| tvsvaishali12@gmail.com | SALUNKE VAISHALI TANAJI | M.S.G. Arts, Science and Commerce College Malegaon Camp Dist. Nasik | Malegaon | 7588518108 | Good | Good | hands on training |
| reddappamosu@gmail.com7 | Reddappa C | BTI Bengaluru | Bengaluru | 7022379120 | Very good | Very good | Not specific |
| krishnavjee18@gmail.com | KRISHNA MURTHY P | Department of Physics, Government Science College, Chitradurga -577501 | Chitradurga -577501 | 9740144921 | Excellent | Excellent | Very nice sir |
| me_sandhyarania@rediffmail.com | Prof. Sandhyarani .A | Government Science College(Autonomous) | Bangalore | 9845775684 | Very good | Very good | Nanomaterials |
| drsavithahs@gmail.com | Dr. Savitha H S | SJB INSTITUTE OF TECHNOLOGY | Bangalore | 9964770283 | Excellent | Excellent | Nanotechnology |
| prashant.ganiger565@gmail.co | Prashant S Ganiger | BTI, Bangalore | Bangalore | 8970257784 | Very good | Good | Nothing |

| | | | | | | | |
|----------------------|---------|-------|-----------|------------|-----------|-----------|------|
| nnavya2929@gmail.com | Navya N | BMSCE | Bangalore | 1234567890 | Excellent | Excellent | good |
|----------------------|---------|-------|-----------|------------|-----------|-----------|------|

Photo Gallery





Outline of the Presentation

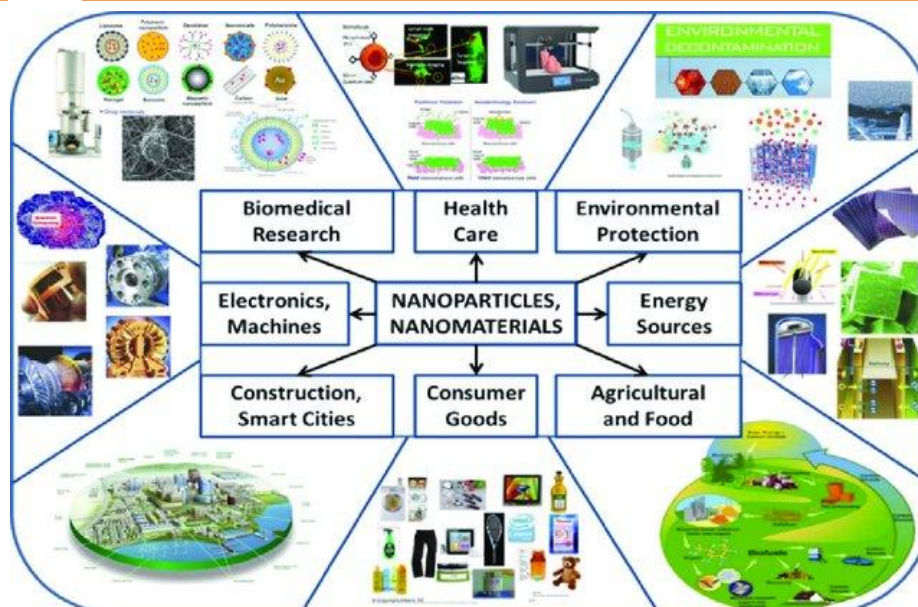
- Experimental Data
- Interpretation of Data
- Experimental Data for the materials characterization
- Nano Scale Materials
- Important Characterizations available for nano-scale materials
- ✓ **Ion particle probe – Structural Characterization**
 - **X-Ray Diffraction**
 - Small-Angle Scattering
 - Raman Spectroscopy/ FTIR Spectroscopy
 - Rutherford Backscattering
 - Cathodoluminescence
 - Nuclear Magnetic Resonance Spectroscopy
 - Nuclear Reaction Analysis
 - Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry
- ✓ **Electron Probe Characterization Techniques – Morphological studies**
 - Atomic Forced Microscopy
 - Scanning Probe Electron Microscopy
 - Electron Probe Microanalysis
 - Transmission Electron Microscopy
 - Scanning Transmission Electron Microscopy
 - Particle Tracking Velocimetry (PTV)

19-10-2020

Dr. Daruka Prasad B, Department of Physics – BMST&M

(Part – I) PXRD & SEM

2

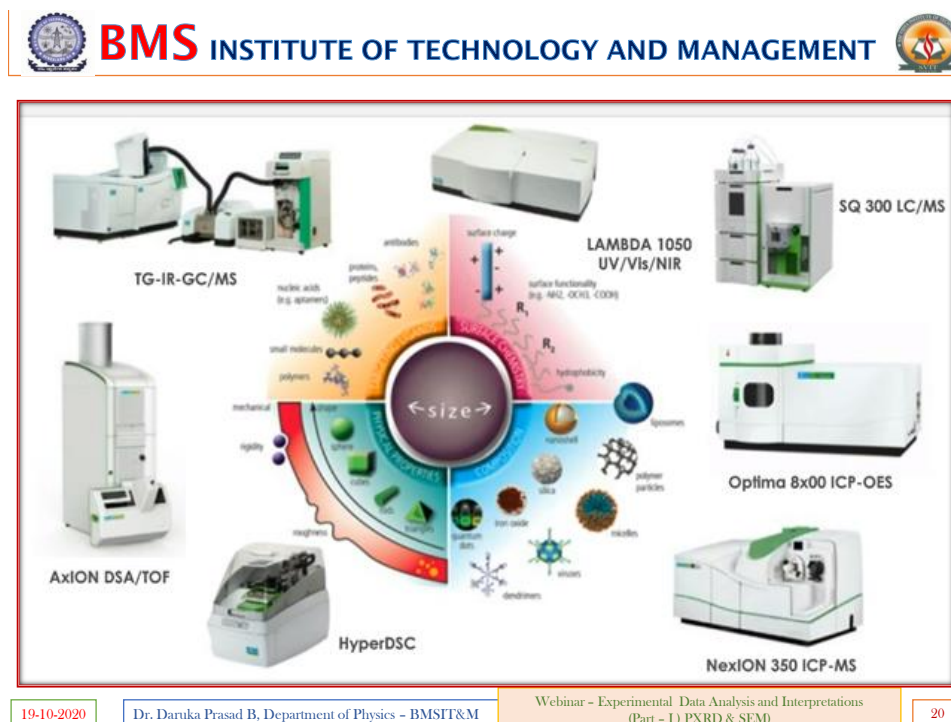
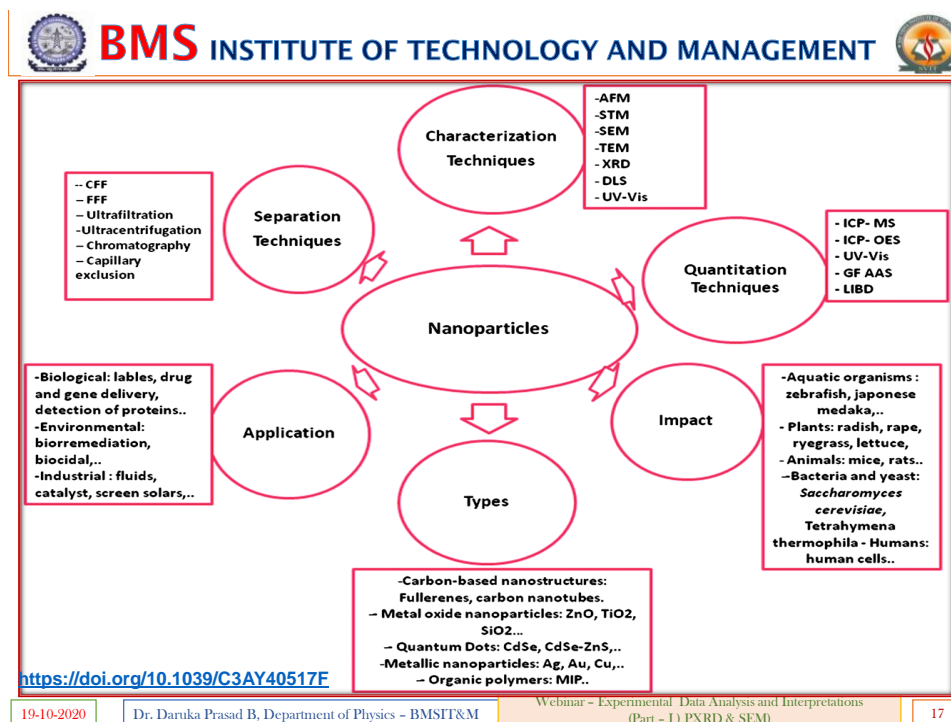


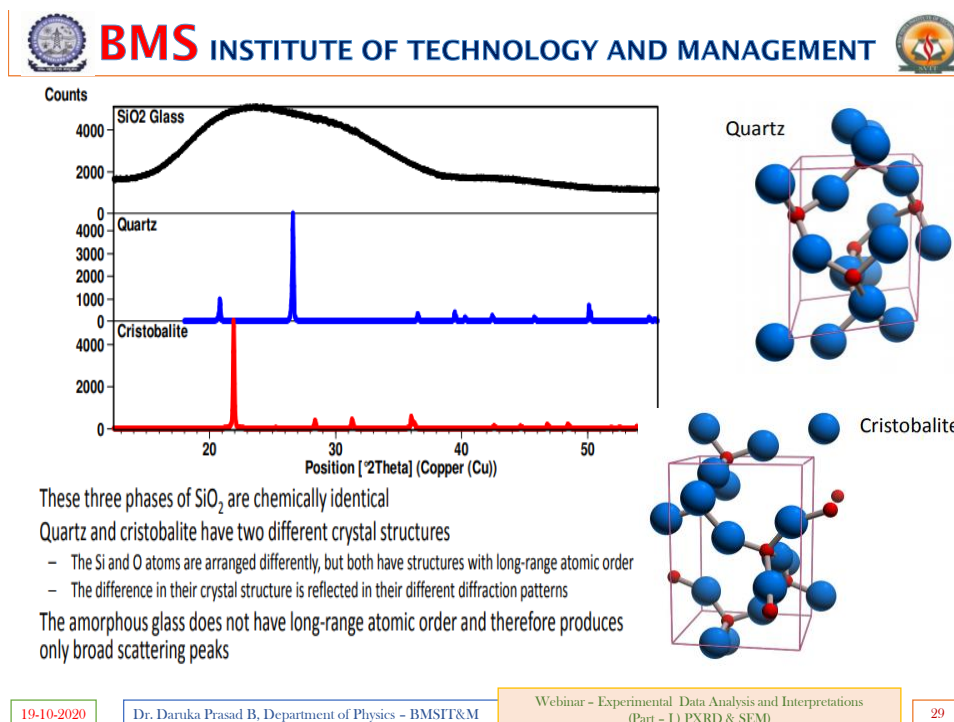
19-10-2020

Dr. Daruka Prasad B, Department of Physics – BMST&M

Webinar – Experimental Data Analysis and Interpretations
(Part – I) PXRD & SEM

10





BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Scanning Probe Electron Microscopy

Scanning probe microscopes are a very powerful family of microscopes with resolution less than 1 nm.

The force between the tip and the surface is kept constant in contact mode, which allows to quickly image a surface.

In tapping mode, the cantilever oscillates, intermittently touching the surface. Tapping mode is especially useful for imaging a soft surface.

- **Atomic force microscopes** measure the electrostatic forces between the cantilever tip and the sample.
- **Magnetic force microscopes** measure magnetic forces
- **Scanning tunneling microscopes** measure the electrical current flowing between the cantilever tip and the sample.



STM Images

19-10-2020 Dr. Daruka Prasad B, Department of Physics – BMST&M Webinar – Experimental Data Analysis and Interpretations (Part – 1) PXRD & SEM 94



Annexure

Brochure & Invitation with Registration link



Sri Sai Vidya Vikas Shikshana Samithi (R)
Sai Vidya Institute of Technology
Rajanukunte, Doddaballapura Road, Bengaluru -64


Department of Physics

conducting a webinar on
Experimental Data analysis and interpretations (Part-1) : PXRD and SEM
Faculty members/research scholars/students of Engineering and science degree colleges can attend the webinar

Date : 19/10/2020 (Monday)
Time : 11.30 am to 1.00 pm
Platform : Google Meet
Registration: Free
Registration link

<https://forms.gle/jsXzkEBuij1GPDuH7>

Resource Person



Dr. Daruka Prasad B
Assistant Professor
Department of Physics,
BMSIT & M
Bengaluru

For any queries
Coordinator
Prof. Nayana B L
9743423194

Note:

- E-Certificate will be issued immediately to the participants after submitting the feedback form.
- Further instruction will be shared in the whatsapp group: <https://chat.whatsapp.com/liQQutXQ1hVLA7Sr7blgf>

Dr. Yogananda H S
Convener

Dr. Shankar P
HOD

Dr. Ramesh Babu H S
Principal

INVITATION:

Respected Sir/Madam,

Warm Greetings from

Sai Vidya Institute of Technology, Bengaluru, Karnataka, India.

It is our pleasure to inform you that the Department of Physics is conducting a webinar on

"Experimental Data analysis and interpretations (Part-1) : PXRD and SEM" for faculty members, research scholars and students.

This webinar will be conducted on,

Date: 19th October 2020, Monday

Timings: 11.30 am to 1.00 pm

Platform: Google meet

Speaker:

Dr. Daruka Prasad B

Assistant Professor,

BMS Institute of Technology & Management, Avalahalli, Bengaluru-64.

Participants can register the webinar using the below link:

<https://forms.gle/ijaisASef7oTQXct6>

Join the whatsapp group by using the below link:

<https://chat.whatsapp.com/IiQQUtXQ1hVLAB7Sr7blgf>

Webinar link for attendees:

<meet.google.com/kbe-sgbs-fnp>

Note:

- E-Certificate will be issued immediately to the participants after submitting the feedback form.
- Further instruction will be shared in the whatsapp group.

Thanks and Regards,
Faculty Coordinators:
Prof. Nayana BL,
Contact no.: 9743423194.

Convenor,
Dr. Yogananda H S,
Contact no.: 9980677996.

HOD:
Dr. Shankar P,
Dept. of Physics, SVIT, Bengaluru

Principal:
Dr. H S Ramesh Babu
SVIT, Bengaluru.