

G.S. Science, Arts and Commerce College, Khamgaon

Department of Chemistry

Name of the event :-	NET/SET Guidance session on competitive examinations in Chemical Science
Conducted by:-	Department of Chemistry, G.S Science, Arts and Commerce College, Khamgaon and Internal Quality Assurance Cell and Department of Chemistry of Pillai HOC College of Arts, Science and Commerce Rasayani .
Date:-	March 4, 2022
Venue/ Online Platform:-	Online : Zoom
Activity Falls under Criterion/Criteria:-	Criteria III
Convenor:-	Dr. Rohini Dharamkar and Dr. Vishakha Telgote
Co-Convenor: - (if any)	
Number of participants benefitted:-	Students : ___96 Teachers : ___04 Others: ___
Report:-	Report on NET/SET Guidance session on competitive examinations in Chemical Science. Department of Chemistry, G.S Science, Arts and Commerce College, Khamgaon in collaboration with Department of Chemistry of Pillai HOC College of Arts, Science College, on Friday , March 4, 2022. The session was started with welcome speech given by Ms. Krunali Patil , TYBSc student. Dr. Nanabhau Karanjule sir , Asst. Professor, Department of Chemistry, K.J. Somaiya college of Science was resource person of the day.

	<p>Various competitive exams are conducted in chemical Sciences such as IIT JAM, UGC NET, SET etc, UGC Net is regarded as one of the toughest exams. To fare well in UGC NET, SET or any other competitive exams long time strategy is needed. Each aspirant must balance the time and give importance to both papers (Paper I and Paper II)</p> <p>Dr. Karanjule sir explained paper pattern along with marks distribution for exams.</p> <p>What topics to be focused more is explained during session.</p> <p>Along with NET, SET, JAM preparation exams like entrance examinations for BARC, DRDO were also discussed.</p> <p>The session was ended by vote of thanks proposed by Dr. Rohini Dharamkar, department of chemistry, G S College, Khamgaon.</p>
Photos:-	

REC



NET Question Paper Analysis (Organic)

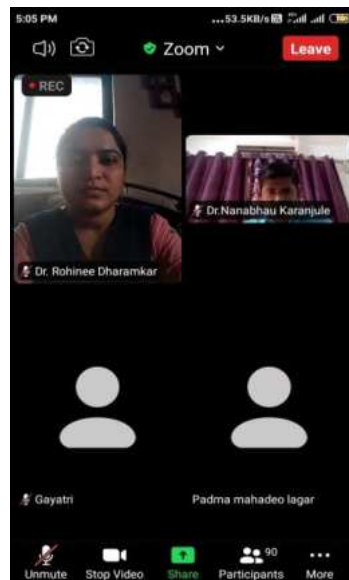
Year	Part	Number of Questions	Mark	Duration
2014	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2015	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2016	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2017	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2018	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2019	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2020	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2021	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2022	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)

REC



NET exam question paper pattern

Session	Part	Number of Questions	Mark	Duration
2023	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)
2024	I (General)	50 questions of which 40 are compulsory	100 x 2 = 200	2 hour (12.30 pm to 2.30 pm)



Bharambar
Activity In Charge
Dr. R.R. Dharambar

Head of Department

Bharambar
Principal
Principal
G. S. Sci., Arts & Commerce
College, Khamgaon-444303

G.S. Science, Arts and Commerce College, Khamgaon

Department of Chemistry

Title of the Activity:-	A Guidance Session on “Applications of Spectroscopic Techniques in Industry”
Conducted by:-	Department of Chemistry, G.S Science, Arts and Commerce College, Khamgaon and Internal Quality Assurance Cell and Department of Chemistry of Pillai HOC College of Arts, Science and Commerce Rasayani .
Date:-	March 12, 2022
Venue/ Online Platform:-	Zoom meet
Activity Falls under Criterion/Criteria:-	Criterion III
Convenor:-	Dr. Sapana Mukund Chilate
Co-Convenor: -	Dr. Vishakha Telgote, Dr. Rohini R. Dharamkar

<p>Number of participants benefitted:-</p>	<p>Students : _____85 Teachers : _____04 Others : _____</p>
<p>Brief Report about event:-</p>	<p>Department of Chemistry, G.S.Science, Arts and Commerce College, Khamgaon Dist Buldana in association with Internal Quality Assurance Cell and Department of Chemistry, Mahatma Education Society's Pillai HOC College of Arts, Science and Commerce, Rasayani Report on A Guidance Session on "Applications of Spectroscopic Techniques in Industry"</p> <p>For students on March 12, 2022, from 3.00 pm-4.00 pm through Zoom platform.</p> <p>The event started with Dr.Sapana Chilate, welcoming the resource person of the day, Dr.Sharad Duche. He led the session by explaining scientific development in the field of Spectroscopy, analytical approach, experimental approach, and descriptive approach and applications of different Spectroscopic Techniques in Industry. He elaborated on instruments used for various research activities.</p> <p>A total of 89 participants attended this event.</p> <p>The event ended with a vote of thanks by Dr. Rohini Dharamkar and positive feedback from the participants.</p>
<p>Photos:-</p>	

Mahatma Education Society's
Pillai HOC College of Arts, Science and Commerce, Rasayani
 (Accredited by NAAC)
 (ISO 9001: 2015 Certified)

Internal Quality Assurance Cell and Department of Chemistry
 of
Pillai HOC College of Arts, Science and Commerce, Rasayani:
 in collaboration with
S.P.D.M. Arts, S.B.B. and S.H.D. Commerce and S.M.A. Science College, Shirpur;
Vidarbha Shikshan Prasarak Mandal's G.S Science, Arts and Commerce College, Khamgaon and
Bapuniya Sirajoddin Patel Arts, Commerce and Science College
 organise

A Guidance Session on
Applications of Spectroscopic Techniques in Industry

 **Resource Person:**
Dr. Sharad Duche,
 Head, Analytical R&T
 Huntsman Corporation

Day and Date: Saturday, March 12, 2022. Time: 3:00 pm – 4:00 pm. Platform: Zoom


Principle of NMR Spectroscopy

- Electromagnetic radiation of long wavelength (1000cm to 10000cm) in radiofrequency region interact with certain nuclei in presence of strong external magnetic field.
- Unlike electron, nucleus also has its spin quantum number.
- Nucleus behave as a tiny bar magnet and are random spinning in the absence of external applied magnetic field.
- However when place in strong applied magnetic field, it will have 2 possible orientation.
- It can either orient its magnetic moment in the direction of the applied magnetic field or against it.
- The energy required to flip a proton from low energy spin state to high energy spin state depend upon the strength of magnetic field and is given by

$$\Delta E = h\nu = \gamma \hbar B_0$$

Higher energy levels

NMR Applications

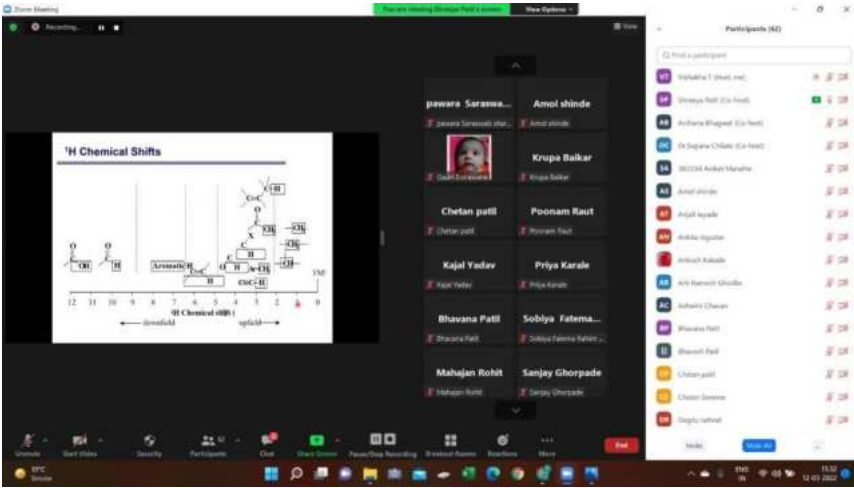


Participants (27)

Dr. Sapana Chilate
 Shreyas Patil
 Vishakha T
 Sukeshani Sada...
 Shaikh Anis

Dr. Sapana Chilate (Co-host, me)
 Vishakha T (host)
 Shreyas Patil (Co-host)
 Anshika Bhagwat (Co-host)
 Suresh Sankar Shinde
 ...

Spinning Room Penetration 11
 Spin Technology is the study of interact of atoms and molecules with the electromagnetic radiation

	
Winners(if any):-	NA

Bharambar
Activity In Charge
Dr. R.R. Dharambar

Head of Department

Sawade
Principal
Principal
G. S. Sci., Arts & Commerce
College, Khamgaon-444303