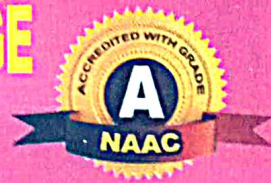




G. S. SCIENCE, ARTS & COMMERCE COLLEGE

KHAMGAON - 444 303, Dist. Buldana (M.S.)

Reaccredited by NAAC with 'A' Grade - CGPA 3.08 (Third Cycle)

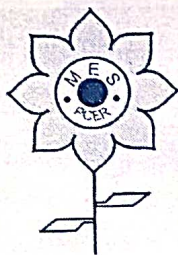


Dr. D. S. Talwankar M.Sc. Ph.D.SET
Principal

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No. 1075

Date. 24 NOV 2021



MEMORANDUM OF UNDERSTANDING (MoU)

Between
Mahatma Education Society's
Pillai HOC College of Arts, Science and
Commerce, Rasayani
And
Vidarbha Shikshan Prasarak Mandal's
G.S. College of Science, Arts and Commerce,
Khamgaon, Buldhana

This MoU is entered into on the 01st day of June, 2020 between Pillai HOC College of Arts, Science and Commerce, Rasayani (hereinafter called PHCASC) situated at Rasayani, Raigad, affiliated to University of Mumbai and Vidarbha Shikshan Prasarak Mandal's G.S. College of Science, Arts and Commerce, Khamgaon, Buldhana affiliated to Sant Gadge Baba University, Amravati, to be functional for a period of three Academic Years from this day on (till 01st day of June, 2023).

General Objective:

This Memorandum of Understanding (MoU) between Pillai HOC College of Arts, Science and Commerce, Rasayani & G.S. College of Science, Arts and Commerce, Khamgaon, Buldhana is to stimulate and facilitate the development of collaborative and mutually beneficial programs and activities which serve to benefit the department of chemistry students and faculty in the area of academics and research.

Areas and Modes of Collaboration:

MES' Pillai HOC College of Arts, Science and Commerce, Rasayani and Vidarbha Shikshan Prasarak Mandal's G.S. College of Science, Arts and Commerce, Khamgaon, Buldhana have agreed that in support of their mutual interests in the fields of academics and research in Chemistry, both the institutions will have following understandings:

A. Collaborate to enhance work in the areas of chemistry by faculty exchange policies.

1. To encourage exchange visits of faculty from one institute to another for the purpose of engaging in curriculum enrichment and research aspects, in online and offline mode.
2. To facilitate and provide information on various certificate course options for qualified students from one institution to the other for the purpose of enrolling in undergraduate and graduate certificate programs, and in the case of advanced graduate students, particularly in collaborative research.
3. To foster the exchange of academic publications and scholarly information.
4. To promote other academic activities which enhance the above-mentioned goals.

B. Other Areas

1. To exchange information on research and educational programs of chemistry,
2. To exchange information on teaching learning material and other literature relevant to chemistry educational and research programs,
3. To organize jointly curricular events, seminar, conferences or workshops on topics of mutual interest and to invite each other's faculty to participate therein,
4. To propose and engage jointly in research on training programs and to invite each other's faculty to participate therein,
5. To exchange, on a reciprocal basis, students at undergraduate, graduate levels for limited period of time for purpose of education,
6. The provision of cultural and intellectual enrichment opportunities for students and staff at both institutes,
7. To permit students, staff and faculty members to use the library facility, if needed.

Amendments/modifications

This MoU may be amended or modified by a written agreement signed by the representatives of both institutes.

Adherence of Laws

Participating faculties, and students involved in any activities under this memorandum must adhere to the law of the host institutions and their rules and regulations.

Legal Effect

Nothing in this Memorandum shall be construed as creating any legal relationship between the institutes. This Memorandum is a statement of intent to foster genuine and mutually beneficial collaboration.

In case, there is a dispute relating to any aspect of academic cooperation, the parties will jointly resolve the dispute in a spirit of independence, mutual respect, and shared responsibility.


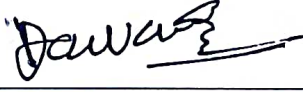
Duration of the MoU:

This MoU, unless extended by mutual written consent of the Institutes, shall expire in five years after the effective date specified in the opening paragraph. However, on review, the MoU may be renewed by mutual consent.

Signed in Duplicate:

This MoU is executed in duplicate with each copy being an official version and having equal validity. By signing below, the Institutes, acting by their duly authorized officers, have caused this Memorandum of Understanding to be executed, effective as of the day and year first above written.

On Behalf of:

	
Dr. Lata Menon Principal Principal	Dr. D.S. Talwankar Principal Principal
Mahatma Education Society's Pillai HOCL College of Arts Science and Commerce HOCL Educational Campus, Rasayani, Tal. Khalapur, Raigad - 410207	G. S. Sci. Arts & Commerce College, Khamgaon - 444303
MES Pillai HOCL College of Arts, Science and Commerce, Pillai HOCL Educational Campus, Rasayani, Raigad - 410207	Vidarbha Shikshan Prasarak Mandal's G.S.College of Science, Arts and Commerce, Khamgaon, Buldhana-444303

TrackAct - Activity Tracker

Name of the event:-	A Guidance Session on “Applications of Spectroscopic Techniques in Industry”
Conducted by:-	Internal Quality Assurance Cell and Department of Chemistry of Pillai HOC College of Arts, Science and Commerce Rasayani in association with S.P.D.M. Art’s, S.B.B & S.H.D. Commerce and S.M.A. Science College Shirpur; Bapumiyan Sirajoddin Patel Arts, Commerce and Science College Buldhana; Vidarbha Prasarak Mandal's G.S Science, Arts and Commerce College, Khamgaon.
Date:-	March 12, 2022
Venue/ Online Platform:-	Zoom
Activity Falls under Criterion/Criteria:-	Criterion III
Convenor:-	Dr. Sapana Mukund Chilate
Co-Convenor: -	Dr. Vishakha Telgote
Number of participants benefitted:-	89
Report:-	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” Internal Quality Assurance Cell and Department of Chemistry of Pillai HOC College of Arts, Science and Commerce Rasayani in association with S.P.D.M. Art’s, S.B.B & S.H.D. Commerce

and S.M.A. Science College Shirpur; Bapumiyan Sirajoddin Patel Arts, Commerce and Science College Buldhana; Vidarbha Prasarak Mandal's G.S Science, Arts and Commerce College, Khamgaon. **A Guidance Session on "Applications of Spectroscopic Techniques in Industry"**

For students on **March 12, 2022**, from 3.00 pm-4.00 pm through Zoom platform.

The event started with Dr.Sapana Chilate, welcoming the resource person of the day, **Dr.Sharad Duche** .

Dr.Sharad Duche. 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.

A total of **89** participants attended this event.

The event ended with a vote of thanks by Dr. Archana Bhagwat and positive feedback from the participants.

Photos:-

The top screenshot shows a presentation slide with the following text:

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
Bapumiya 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

The bottom screenshot shows a slide titled "Principle of NMR Spectroscopy" with the following bullet points:

- 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

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

From Dipali Shiram Anekar to Everyone
Higher energy levels

Zoom Meeting

Dr.Sapana Chilate | Shreeya Patil | Vishakha T | Sukeshani Sada... | Shaikh Anis

Recording

NMR Applications

Participants (17)

Find a participant

Dr.Sapana Chilate (Co-host, me)

Vishakha T (Host)

Shreeya Patil (Co-host)

Archana Bhagwat (Co-host)

383556 Aniket Marathe

Invite

Chat

Rakesh Dilip patil to Everyone

Ok mam

Elgaji Shiram Avakar to Everyone

Spectroscopy is the study of interact of atoms and molecules with the electromagnetic radiation

Who can see your messages? Recording On

Waiting Room Participants

Type message here...

32°C Simko

12-01-2022

Zoom Meeting

View and Joining Shreya Patil's screen

View Options

Recording

¹H Chemical Shifts

Participants (82)

Find a participant

Vishakha T (Host, me)

Shreeya Patil (Co-host)

Archana Bhagwat (Co-host)

Dr.Sapana Chilate (Co-host)

383556 Aniket Marathe

Amol shinde

Anjali kayade

Ankita nigudde

Ankush Kakade

Arii Ramesh Ghodke

Ashwini Chavan

Bhavana Patil

Bhavaesh Patil

Chetan patil

Chetan Sonwane

Digpu rathod

Invite

Use AI

32°C Simko

ENG IN

12-01-2022

Winners(if any):-

NA