

Department of CHEMISTRY (UG)
UNIQUE INITIATIVES

- **IICT-CHEMINFORMATICS CERTIFICATE COURSE (MOU).**
- **C-HUB ACTIVITIES.**
- **CERTIFICATE COURSE-NIPUNA.**
- **FIELD VISITS.**
- **EXTENSION ACTIVITIES.**

IICT-MOU

(A CERTIFICATE COURSE ON CHEMINFORMATICS, SINCE 2018)

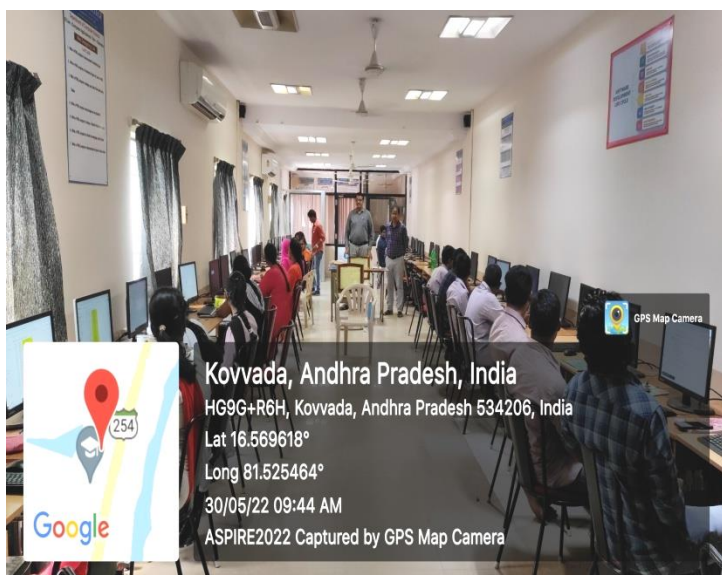
Name/Title of the Activity	Certificate Training Program on “Basic Cheminformatics & Bioinformatics”,
Date	From 30-May-2022 to 10-June-2022
Time	10:00 AM to 04:00 PM
Duration	Full Day
Mode of conduction	Blended (Online & Offline)
Conducted by	Department of UG CHEMISTRY, Life-Sciences B V RAJU college, in collaboration with CSIR-IICT,Hyd.
Event Coordinator(s)	Dr.Ramars Amanchy (From IICT) And J PHANI KUMAR (From B.V.Raju College)

Under CSIR-Integrated Skill Initiative Program, a Certificate Course on Basic Cheminformatics & Bioinformatics for B.Sc & B.Pharm students is being offered Under **SKILL DEVELOPMENT** Training at CSIR-Indian Institute of Chemical Technology **(IICT)-HYD.**

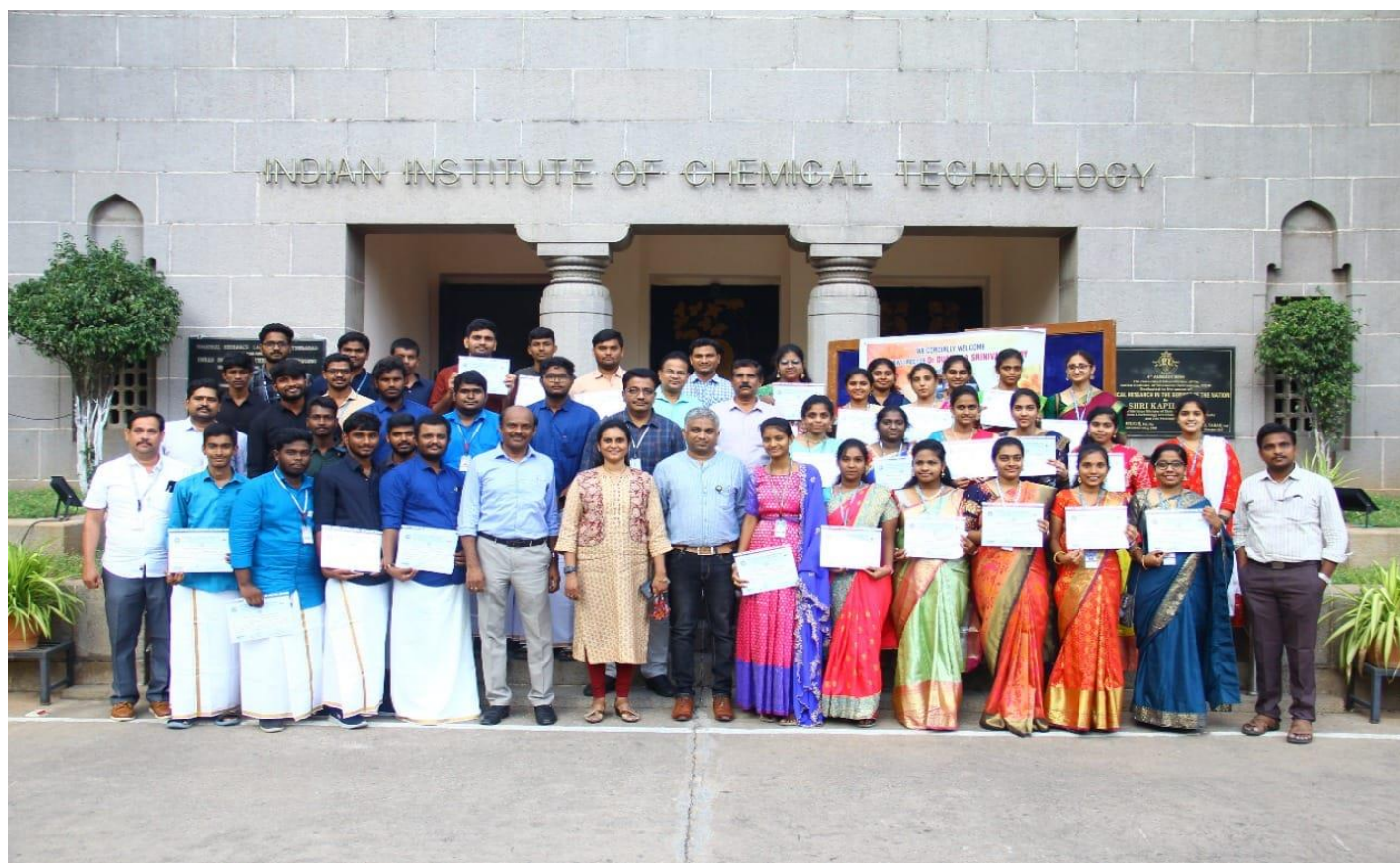
Cheminformatics is a rapidly evolving science that drives Chemical Science Research and addresses key issues in chemistry using the power of Computation. Basic Cheminformatics Training covers 30 Hrs of (10 Days) theoretical & practical aspects

related to computational modeling of compounds, properties, activities and chemical reactions. Students will be introduced to chemical databases, open source software applications and data mining during the course.

Around **32** students from B.Sc (MPC & Life Sciences) and M.Sc Chemistry are attended and taken a certificate Training Program "Cheminformatics & Bioinformatics", conducted by IICT-Hyd, Under CSIR Integrated Skill Initiative Program. It was a ten days program, implemented from 30-May-2022 to 10-June-2022....







OUTCOMES OF CHEMINFORMATICS CERTIFICATE COURSE

1. Students are able to understand software applications in research and daily life chemistry (chemical data base, open Source Software applications).
2. Students have an idea about computer applications in Drug Designing.
3. By doing this cheminformatics certificate course in premier institutions like IICT, the students are greatly recognized by Pharmaceutical Industry.

C-HUB ACTIVITIES

(STUDENT INNOVATIVE PROJECTS)

The chemistry Department of UG, has designed a Program under the name of C-HUB, to create innovative thoughts and to do chemistry oriented activities. Under this, we are invited students to join in this club on their own interest.

Name/Title of the Activity	GO GREEN COMPETITION
Date	29th March 2022
Time	10:00 AM to 03:00 PM
Duration	5 hours
Mode of conduction	offline
Conducted by	Department of UG CHEMISTRY, B V RAJU college
Event Coordinator	V.SWAMY SABHARINADH

Department of UG chemistry was Organised Go Green Project competition on 29th.03.2022. For this program 14 Batches of aspirants participated with their exhibits. Most of the exhibits related to Biodegradable alternative plastics, Edible alternative plastics, Reuse and Reducible plastics. Dr N.Prudhvi raju and Sri R.L.Satyanarayana belong to PG Chemistry, Mrs. K.Neelima, belongs to English Department acting as Judges. With their judgement, LIGHTING LAMP WITH RECYCLED PAPER, made by 1st MPC students (P.Charan, S.Rishith Om, G.Vivek) stood in First position, REDUCE, REUSE AND RECYCLE OF PLASTICS, made by 1st MSCs students (S.Tarak, K.Siddardha, M.Indra kumar) stood in Second position, REUSE OF POLYTHENE WATER PACKETS, made by 1st MSCs students (P.Krishna Mohan, U.Manoj and) stood in Third position.

In this regard, B.V.RAJU college Principal Dr I.R.K.Raju, Vice-principal Sri Ch.S.V.Satyanarayana, Visited to program platform and deeply observed all the 14 exhibits, appreciated and congratulated all the Participants





OUTCOMES

Go Green Project competition give the following Outcomes

1. This Activity, provoked Innovative thoughts of student aspirants.
2. Increases the thinking ability of students.
3. Stability of the students may gain prominence.
4. Helpful for the Society.
5. Students get Knowledge by searching various intellectual resources.

ADD-ON COURSE

(NIPUNA- A CS Skills for a Chemistry people)

To rapid changes in the various fields requires additional act of knowledge and skills beyond prescribed curriculum to meet the requirement. To meet the rapid technological development, several times, students need to be imparted with new skills and professionalism in order to achieve the Programme Specific Objectives. The university curriculum clearly defines the program specific outcomes. However, students may need specialized aptitude of their own interest to become industry ready. In view of this, B.V.RAJU College management decided to offer Add-On course for the Chemistry (UG) students. This course is named as “NIPUNA”. The aim of this course is to teach Computer Skills to the Chemistry Stream students. So that they explore in the operation of technical skills and radiantly get expertise over computer knowledge in addition to their admitted Course. It is also in view of owing students interest. This course help student to stand apart from the rest in the job market by adding further value to their resume.

Guidelines for Conducting Add-On Courses

*This Add-On course is designed for those B.Sc (M.P.C) students. The student may choose not to opt this course as this course is not mandatory to qualify or award of B.Sc degree. **Therefore registration of this Add-On course is not mandatory.** After successful completion of and evaluation, the certificate will be awarded to student by the College. It is a teacher assisted learning course. The following are the guidelines for the conduct of the Add-On course.*

☐ Students of second semester are eligible for registration in this Add-On course on their self interest.

This course is designed in “Three Phases”.

Phase 1	Starting of the course in their Second Semester
Phase 2	Commenced in their Third Semester
Phase 3	Commenced in their Fourth Semester



Smt. B. Seetha Potluri Technic
Kovvada, Andhra Pradesh, India
HG9G+R6H, Kovvada, Andhra Pradesh 534206, India
Lat 16.569602°
Long 81.52544°
16/06/22 11:23 AM
B.V.R.C NIPUNA- Add-On Course



Kovvada, Andhra Pradesh, India
HG9G+R6H, Kovvada, Andhra Pradesh 534206, India
Lat 16.569792°
Long 81.525423°
16/06/22 11:23 AM
B.V.R.C NIPUNA- Add-On Course



West Godavari, AP, India
SH 254, Bhimavaram, West
Godavari, 534202, AP, India
07/01/2022 03:04 PM

OUTCOMES

NIPUNA gives the following Outcomes

1. Non computer science stream students learn basics like MS Word, MS Excel and PowerPoint presentation.
2. Even Non computer science students also get Software jobs in MNCs.
3. The students can Learn different software Languages.

FIELD -VISITS

(EXPOSURE OF STUDENTS TO THE FIELD)

INDUSTRIAL VISIT	SCIENCE TECHNOLOGY & INNOVATION HUB
Name of the Felicitator	Dr. HANUMANTHA RAO etal
Date	2 nd AUGUST,2022
Time	10:00 am to 1:00 pm
Duration	3 hours
Venue	SCIENCE TECHNOLOGY & INNOVATION HUB DIRUSUMARRU
Conducted by	Department of UG CHEMISTRY, B V RAJU College

INVENTIONS OBSERVED THERE

On 2nd august 2022 we Department of Chemistry (UG) organized an industrial visit to science technology & innovation hub the following inventions we observed there.

- Extraction of VCO & preparation of herbal soap
- Preparation of charcoal from coconut shell
- Preparation of coconut shell powder
- Extraction of coconut oil for soap making
- Health monitoring system through AI/ ML TECHNIQUES
- Copra production using solar tunnel drier
- Rope making from coconut fiber
- Preparation of tender coconut water
- Preparation of coconut vinegar



INDUSTRIAL VISIT	VENNAR CERAMICS
Date	15-AUGUST-2022
Time	12 PM TO 6 PM
Duration	6 Hrs
Venue	PERKIPALEM, KAIKALURU
Conducted by	Department of UG CHEMISTRY, B V RAJU College



OUTCOMES OF THE FIELD VISITS

- *Students have known extraction of VCO and preparation of Herbal Soaps.*
- *Preparation of charcoal from coconut shell.*
- *Preparation of Tender Coconut water.*
- *Preparation of coconut vinegar.*
- *Manufacturing of Ceramic Tiles.*

EXTENSION ACTIVITIES

(COMMUNITY OUT REACH PROGRAM)

Faculty and students of BVRC visited to B.V.RAJU KNOWLEDGE CENTRE situated at kumudavalli on the occasion of Sir C.V.RAMAN Jayanthi (07-11-2022). There government school students have taken some practical knowledge inputs from staff of B.V.R.K.C as well as B.V.R.C visited faculty and student members.

HIGHLIGHTS OF GIVEN INPUTS FROM B.V.R.C FACULTY AND STUDENTS.

- *Chemical phenomenon's related to day to day life.*
- *Bio catalysts.*
- *Concepts of acids and bases.*
- *Qualitative analysis like liberation and identification of hydrogen gas.*
- *Construction of Bunsen burner.*
- *Importance of physics in daily life.*
- *Speech on greatness of C.V .RAMAN and importance of Raman Effect.*
- *Simple pendulum practical, light property practicals.*
- *Importance of biotechnology now and future endeavors.*
- *Specimens of botany and zoology.*







OUTCOME :

Due to this kind of Activity students of BVRC, have got a platform to share their Knowledge with Young buds.