

# **B.V.RAJU COLLEGE**

Vishnupur, bhimavaram

**DEPARTMENT OF M.Sc. CHEMISTRY**

## **CERTIFICATION COURSE ON BASIC CHEMINFORMATICS**

**(UNDER CSIR INTEGRATED SKILL INITIATIVE)**

**IICT – 2018 -2019**

<b>Name of the institution/ industry/ corporate house</b>	<b>Year of signing MoU</b>	<b>Duration</b>	<b>List the actual activities under each MOU year wise</b>	<b>Number of students/ teachers participat ed under MoUs</b>
<b>IICT, HYDERABAD</b>	<b>02/01/2019</b>	<b>3 years</b>	<b>Cheminformatics course under which the students learned about the molecular modeling using different softwares, docking etc.,</b>	<b>7</b>

**CSIR-IICT (COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH) Hyderabad** is conducting a certificate course for Degree and M.Sc. students on basic cheminformatics. The name of the course is “CERTIFICATION COURSE ON BASIC CHEMINFORMATICS”. This course is initiated by CSIR under CSIR Integrated Skill Initiative.

On October 22<sup>nd</sup>, 2018 CSIR IICT invited applications for Certificate Course on Basic Cheminformatics Under CSIR Integrated Skill Initiative. This course is intended for B.Sc., B.Pharmacy and M.Sc. students.

**About the course:**

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 hours of (10 Days) theoretical and 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 mining during the course.

**The course outlines:**

**Theory:** Basic understanding of Chemical Space, Chemical properties, chemical reactions and chemical databases

**Practical:** Manipulation of chemical structure, chemical reactions, chemical activity prediction of drug likeliness and chemical properties, chemical structure and substructure search.

**Course outcomes:**

At the end of the course, a student will be able to

- Investigate chemicals and materials that are not practical for laboratory analysis.
- Model individual molecules or behaviours of chemical compounds within the natural world
- Work with databases to catalog, categorize, organize and search the structures of chemicals
- Complement laboratory experimentation with computational chemistry
- Develop information-storage solutions at the molecular level.

**Intake of candidates:** Maximum intake of the candidates is 30. Course Fee: Rs.10,000/-(Rupees Ten Thousand Only) + GST (18%) as applicable. Fee paid once, will not be refunded under any circumstances, The course fee does not include the hostel accommodation.

**Certification:** A certificate will be issued by CSIR-IICT, Hyderabad after successful completion of the course.

**Selection Process:**

The candidate selection will be based GOI rules. The short-listed applicants will be called for an interview (No TA/DA will be paid). Prospective students for the Basic Cheminformatics Training will be expected to be enrolled in or completed a Bachelor's degree Chemistry/ Pharmacy or Biological Sciences. A basic background in computer and internet is desirable. Out station students will be provided accommodation at CSIR-IICT on prior request and chargeable basis.

**How to apply:** The online application form is available on CSIR-IICT website ([www.iictindia.org](http://www.iictindia.org)). For more details please contact at [sdp@iict.res.in](mailto:sdp@iict.res.in)

Dates to remember:

Last date for receiving applications: November 17, 2018

Display of the short-listed candidates: November 21, 2018

Date of interview: November 30, 2018

Display of list of selected candidates: December 4, 2018

Thirty six M.sc (Organic & Analytical chemistry) students of B.V.Raju College applied the certificate course. Among them thirty five students are selected for the course and finally seven students ( M.Sc. second year students – 2, M.Sc. first year students – 5) are selected in the final interview which was held on 30<sup>th</sup> November, 2019 at Prof. Sukhdev hall, NPL Building, CSIR-IICT, Tarnaka, Uppal Road, Hyderabad.

1. Adapa Jaya Sri Chandana
2. Illa Sireesha
3. Karri Annapurna
4. Konkatla Venu
5. Manepalli S. Pushpa Latha
6. Munganda Sairam
7. Rayavarapu Sekhar

The course was started on 21-01-2019 with inauguration speech.

Day 1 : On day one they discussed about the sources of drugs, isolation of drugs

Lab: Databases, Canonical smiles, InChI (Universal chemical identifier)

Day2: Drug permeability, log p values, Lipinski rules

Identification of potential drug candidate:

Identification, physicochemical properties, toxicity of the drug, synthesis methods and structure activity relationships etc.,

Day3: Structure of compound, literature search

Lab: Databases, sei/hub.tw,nature, science director, Digital Objective Identifier, Springer

Day 4: Chemical space, chemical properties, Environmental properties

Lab: Work with different data bases

Day5: Drug discovery-how to identify the taret protein targes, (docking and lead Lab: Work with different data bases

Day6: Invitro studies, molecular, machines and network of life

Day7: Cellular signalling

Day8,9,10: molecular modeling

On 10<sup>th</sup> day Dr.I.R.Krishnam Raju garu, (Principal MCA College), Ch.V.Satyanarayana garu (Vice Principal B.V.Raju College) went to CSIR-IICT Hyderabad, to sign MOU with IICT. They interacted with the Scientists there and visited the labs. In the afternoon session the valedictory function was conducted. The Director Dr. Srivari Chandrasekhar garu addressed the gathering and distributed the certificates. Totally 27 participated in the course. Among them 24 students are from B. V. Raju College, 7 students from M.Sc., 17 students are from degree.

**MOU**



తెలంగాణ తేలంగానా TELANGANA

S.No. 3277 Dt. 24/05/18 Rs. 100

Sold to B. Jaganath

Stamp No. R. Y. Madhukar

For whom Director IICT Hyd

*Raju*  
**CH. BALRAJ** R 318457  
Licenced Stamp Vendor  
Lic. No. 15-07-323/2017  
P.No.6, Ashok Nagar Colony,  
Boduppal (V), Medak Taluqa,  
R. M. Dist. Cell : 301214028

**MEMORANDUM OF UNDERSTANDING**

THIS MEMORANDUM OF UNDERSTANDING IS DATED 2<sup>nd</sup> MONTH 1<sup>st</sup> DAY OF 2019

AND MADE BETWEEN:

1. The B V Raju College, Vishnupur, Bhimavaram – 534202 affiliated to Adikavi Nannaya University, Rajamahendravaram.
2. The CSIR-Indian Institute of Chemical Technology (CSIR-IICT), Uppal Road, Tarnaka, Hyderabad- 500 007, India, a constituent unit of the Council of Scientific and Industrial Research, a Society registered under Societies Registration Act (XXI of 1860), having its registered Office at Anusandhan Bhavan, Rafi Marg, New Delhi 110 001.

*[Signature]*  
**PRINCIPAL**  
**B.V. RAJU COLLEGE**  
**VISHNUPUR, BHIMAVARAM-534 202**

*[Signature]*  
**डॉ. डी. शैलजा**  
**Dr. D. SHAILAJA**  
Senior Principal Scientist & Head  
Business Development & Research Management  
सोपसजाईअर-भारतीय ससायनिक प्रोद्योगिकी संस्थान  
CSIR-Indian Institute of Chemical Technology  
(Ministry of Science and Technology, Govt. of India)  
Tarnaka, Hyderabad-500 007, Telangana State, INDIA

## **1.0 Introduction:**

1.1. B V Raju College and CSIR-IICT agree to enter into an MOU Under "Skill Initiative Program" of CSIR-IICT.

1.2. This Memorandum of Understanding ("MOU") sets out below the principles by which the BVRC and CSIR-IICT can establish a formal agreement regarding such activity.

## **2.0 Principles**

2.1 The activities covered by this MOU will centre on the following:

- i. CSIR-IICT will impart Basic Cheminformatics Certificate Course training to BVRC students.
- ii. The intake of students is 25-30 per batch size
- iii. The program is designed for 10 working days. The training will include basic undergraduate level Cheminformatics theory & practicals monitored by CSIR-IICT Scientists & staff.
- iv. CSIR-IICT will provide facilities to students for class room teaching and computer systems for practical sessions.
- v. BVRC will share the employment details of the students after their course completion to CSIR-IICT.

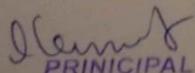
## **3.0 FINANCIAL RESOURCES AND PERSONNEL**

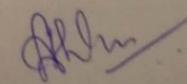
3.1 BVRC Would pay Rs.10000/-(Rupees Ten Thousand only) per each student including GST to CSIR-IICT towards Basic Cheminformatics Certificate Course as a part of Skill Enhancement Course(SEC).

3.2. Any activity carried out within the broad framework of this MOU shall be the subject to the mutual consent of parties, taking into account any constraints of time, funding and other relevant resources.

## **4.0. Separate Agreements**

In addition, it is envisaged that each activity, that the parties wish to pursue in accordance with the purpose of this MOU will be governed by terms and conditions to be separately negotiated and mutually agreed upon by the parties through the signing of one more subsidiary agreements.

  
PRINCIPAL  
**B.V. RAJU COLLEGE**  
VISHNUPUR, BHIMAVARAM-534 202

  
डॉ. डी. शैलजा  
Dr. D. SHAILAJA  
Senior Principal Scientist & Head  
Business Development & Research Management  
विज्ञान-प्रौद्योगिकी-संशोधन-सहायक-मंत्रालय  
CSIR-Indian Institute of Chemical Technology  
(Ministry of Science and Technology, Govt. of India)  
Tatnaka, Hyderabad-500 007, Telangana State, INDIA

**5.0. Renewal Amendment and Termination:**

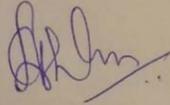
- 5.1. This MOU shall be effective for an initial period of 3 years from this date. Thereafter, this MOU may be extended for any other period of time as deemed appropriate by both parties, subject to their mutual consent any such extension to be made in writing.
- 5.2. Either party may amend or vary this MOU at any time provided it is with the prior written consent of both parties.
- 5.3. Either party may terminate this MOU at any time by giving six month's notice to the other party in writing.

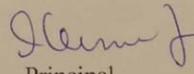
**6.0. General**

- 6.1. The parties to this MOU shall not be deemed to be in breach of this understanding or otherwise liable to any other party in any manner whatsoever for any failure or delay in performing or initiating the activities proposed in this MOU.
- 6.2. This MOU records the understanding between the parties and is not intended to be a legally binding document and shall not be enforceable in any court of law.

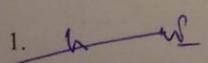
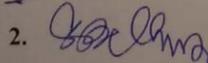
In witness whereof, the parties hereto have signed this MOU on the day, month and year mentioned herein before.

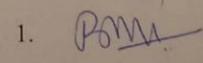
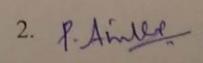
  
Director  
CSIR-IICT  
Tarnaka – Uppal Road,  
Hyderabad – 500 007. TS

Seal :   
डॉ. डी. शैलजा  
Dr. D. SHAILAJA  
Senior Principal Scientist & Head  
Business Development & Research Management  
सोएसडीआर-भारतीय रासायनिक प्रौद्योगिकी संस्थान  
CSIR-Indian Institute of Chemical Technology  
(Ministry of Science and Technology, Government of India)  
Tarnaka, Hyderabad-500 007, Telangana

  
Principal  
B V Raju College  
Vishnupur,  
Bhimavaram – 534202, AP

Seal : 

Witness :  
1.  CSIR Salyanarayana  
2.  RAMARE AMAVENY

1.  P. ANIL KUMAR  
2.  P. ANIL KUMAR

**B.V.RAJU COLLEGE**  
Vishnupur, bhimavaram  
**DEPARTMENT OF M.Sc. CHEMISTRY**  
**IICT -2018 - 2019**

Seven of our M.Sc. students attended the certificate course "cheminformatics" from IICT, Hyderabad and learned hands on expertise on molecular modeling.

S.NO		NAME OF THE STUDENT	YEAR & BRANCH
1	1785333014	K. VENU	I M.Sc. Organic chemistry
2	1785333027	R. SEKHAR	I M.Sc. Organic chemistry
3	1783333001	A. JAYASRI CHANDANA	I M.Sc. Organic chemistry
4	1885333015	K. ANNAPURNA	I M.Sc. Organic chemistry
5	1885333013	I. SIRISHA	I M.Sc. Organic chemistry
6	1885333020	M. SANDHYA PUSHPALATHA	I M.Sc. Organic chemistry
7	1885322008	M. SAIRAM	I M.Sc. Analytical chemistry

**B.V.RAJU COLLEGE**  
Vishnupur, bhimavaram  
**DEPARTMENT OF M.Sc. CHEMISTRY**  
**IICT -2018 - 2019**



सीएसआईआर - भारतीय रासायनिक प्रौद्योगिकी संस्थान  
CSIR-Indian Institute of Chemical Technology

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद / Council of Scientific & Industrial Research)

हैदराबाद / Hyderabad - 500007, तेलंगाना / Telangana



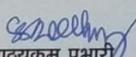
**समाप्ति का प्रमाणपत्र / Certificate of Completion**

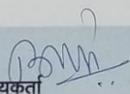
This is to certify that Mr/Ms..... *Munganda Sairam* .....

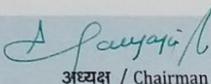
S/o D/o..... *M. Naga Venkata Satyanarayana* .....has successfully completed

**Skill Development Training Course** on **Basic Cheminformatics** as a part of

**CSIR-Integrated Skill Initiative** from 21-01-2019 to 01-02-2019 conducted at CSIR-IICT.

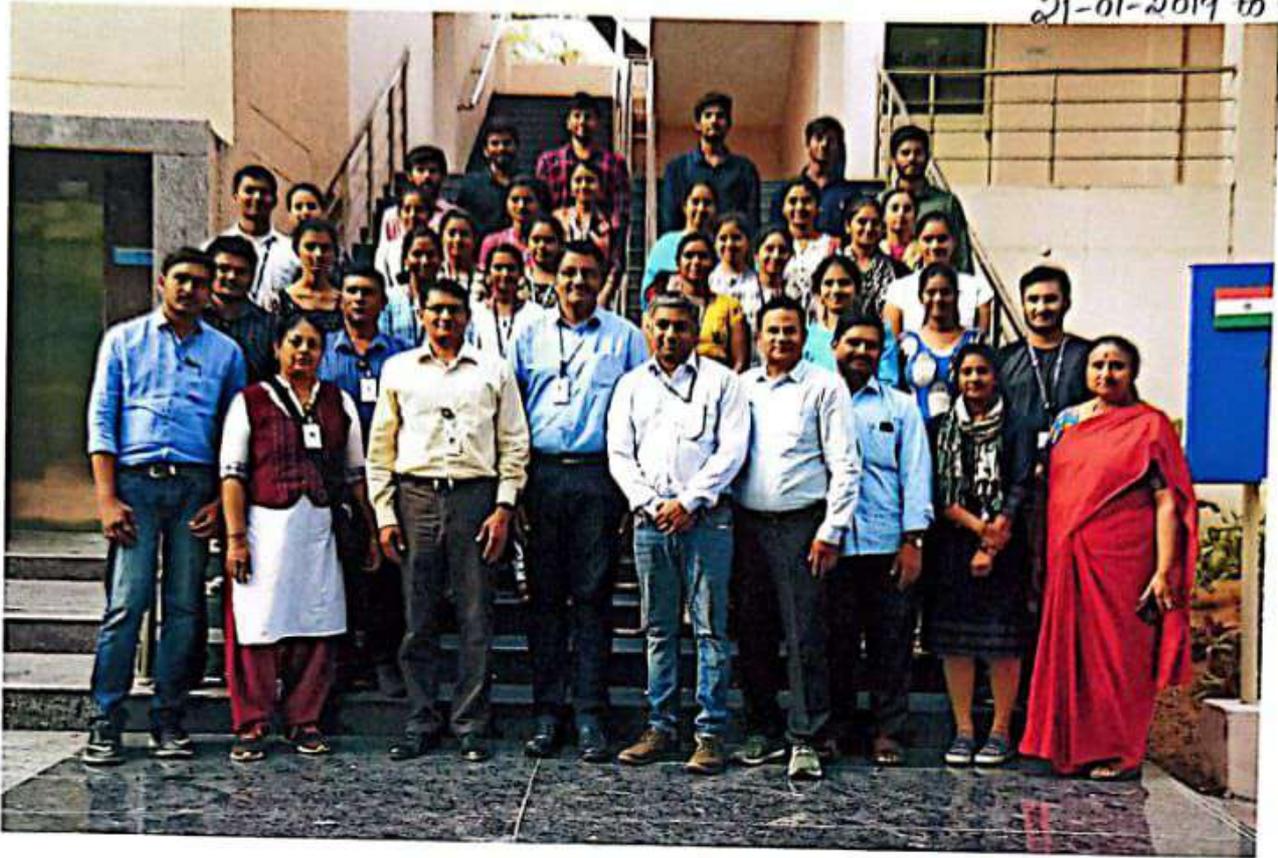
  
पाठ्यक्रम प्रभारी  
Course In-charge

  
समन्वयकर्ता  
Co-ordinator

  
अध्यक्ष / Chairman  
मानव संसाधन विकास / Human Resource Development

B.V. RAJU COLLEGE  
Department of M.Sc Chemistry

21-01-2019 to 01-02-2019



ICT Visit - 2018-19



*[Signature]*  
Head of the Department  
Dept. of M.Sc. Org. Chemistry  
Bhimavaram - 2

*[Signature]*  
PRINCIPAL  
B.V. RAJU COLLEGE  
Vishnupur, Bhimavaram - 534 202



ICT Visit - 2018 to 19



Shot on OnePlus  
Powered by Dual Camera