

National Level Competition For Students

Association with BECon Fest(IIT Delhi Event)





rkshop Details

:Cheminformatics & its application in research and Drug Industry

15th & 16th October 2018

istration Fee - INR 1150/-



Benefits

Industry Expert Faculty.
Certificate to each participant.
Medals & Certificates of Excellence for Top 5 students
Top 5 Outstanding selected students get the chance to participate in the final round @I T Delhi campus

Mode of Selection

1st Round:

Karpagam Academy of Higher Education.

2nd Round:

IIT Campus

: Karpagam Academy of Higher Education

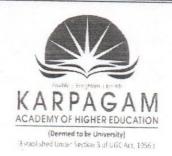
Co-ordinator: Dr.M.Gopalakrishnan - 8189849030

dinators: 1) N. Nivetha-7373178204

2) G. Lakshmipriya-9566945010







DEPARTMENT OF CHEMISTRY

We cordially invite you for the Workshop on Cheminformatics & Its Application in Research and Drug Industry

On 15 & 16 th October, 2018.

Dr. S. SUDALAIMUTHU

Vice-Chancellor,

Karpagam Academy of Higher Education has kindly consented to preside over the function

Ms. Kirthana M. V. Sindhe
Professional research scientist & project ladder in Biomedical Research,
Drug Discovery

Will inaugurate the Workshop activities

Venue: Barathi Hall

Time: 9.30 am

All are invited

Cheminformatics & Its Application in Research and Drug Industry

Agenda

15.10.2018 - Monday

Prayer Song

Lighting the Kuthuvilakku

Welcome Address

Dr. S. Ravi

Professor and Head Department of chemistry

Presidential Address :

Dr. S. SUDALAIMUTHU

Vice-Chancellor,

Karpagam Academy of Higher Education,

Coimbatore.

Inaugural Address

Ms. Kirthana M. V. Sindhe

Professional research scientist & project

ladder in Biomedical Research, Drug

Discovery

Felicitation

Dr. R. SUNDARARAJAN

Registrar,

Karpagam Academy of Higher Education,

Coimbatore

Dr. M. PALANISWAMY

Dean, FASH

Karpagam Academy of Higher Education,

Coimbatore

Vote of thanks

SHUHAIL IRRFAN AHAMED.J

I M.Sc Chemistry

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A REPORT ON THE WORKSHOP PROGRAMME ON "CHEMINFORMATICS AND ITS APPLICATION IN RESEARCH AND DRUG INDUSTRY"

IIT Delhi in an effort to give an awareness about the "Future Scope of Chemist science" as an initiative for "Chemistry-Science Field" has organized a programme called MAKEINTERN - BECON EVENT IIT-DELHI. The programme was planned for two rounds

- 1. First round: To be conducted in 30 zonal centers (our institution as one of the center)
- 2. Second round: Finale round would be held at BECON EVENT IIT-DELHI

MakeIntern is the official training partner of Becon event IIT-Delhi. The first round of the programme was conducted in our University (KAHE) on 15-10-2018 & 16-10-2018 (from 9.30 am to 4.00 pm). Students from KAHE and from other institutions were permitted to participate in the programme. Ms. Kirthana M.V.Sindhe was the resource person for the two days.

- a. Sixty students participated in the programme.
- b. A hand on experiment based workshop was held for the students
- c. Towards the end of the programme based on the students presentation and quiz programme five students were selected from our programme, so that they can participate in the second round
- d. The following Students were selected.
- 1. DHARANI.J (Karpagam Acadmey of Higher Educatioon)
- 2. MAITHREYAN.V.V (Bharathidasan University)
- 3. SHUHAIL IRRFAN AHAMED J (Karpagam Acadméy of Higher Educatiuon)
- 4. ASHIF MOHAMED. A (Karpagam Acadmey of Higher Educatioon)
- 5. SHARMIR. A (Karpagam Acadmey of Higher Educatioon)

Training was provided in the following areas

- a. Introduction and scope of Chemo Informatics
- b. Cheminformatics resources
- c. Chemical databases, Chemical Library preparation
- d. Chemical structure design
- e. Molecular modeling, molecular dynamics
- f. Structure based drug design
- g. Ligand based drug design
- h. Pharmacophore analysis, QSAR
- i. Pharmacokinetic analysis
- i. Molecular docking, Virtual screening.

On the first day the registration was between 9.00 am to 9.30 pm. To begin with an inaugural function was planned between 9.30 am and 10.00 am. The programme was started with a prayer song by the participants followed by lighting of the kuthuvillake by the dignitaries. Then Dr.S.Ravi, Professor & Head, Department of Chemistry welcomed the gathering and briefed about the programme. Mrs. Kirthana M.V.Sindhe the resource person from "MakeIntern" delivered the Inaugural address. Dr.S.P.Rajendran, Adjunct Professor, Department of Chemistry felicitated the programme.

Programme Schedule

Day I

S.No	Day/Timings	Program details
1	9.30 am to	Inaugural function
	10.30 am	COLinformatics
2	10.00 am to	Introduction and scope of Chemoinformatics
	11.00am	· · · · · · · · · · · · · · · · · · ·
3	11.00 am to	Tea break
	11.15 am	Chemical databases, Chemical library preparation, Chemical structure
4	11.15 am to	
	12.15 am	design
5	12.15 pm to	Molecular modeling, molecular dynamics
	1.00 pm	- 11 1
6	1.00 pm to 2.00	Lunch break
	pm	Database search, Chem draw & structure design (Lab)
7	2.00pm to 3.00	Database search, Chem draw & structure
	pm	Grand drug design (Lah)
8	3.00 pm to 4.00	Structure based drug design (Lab)
	pm	

Day II

S.No	Day/Timings	Program details Ligand based drug design, Pharmacophore analysis, QSAR
1	9.30 am to 11.00 am	Ligand based drug design, Pharmacophore analysis,
2	11.00 am to 11.15am	Tea break
3	11.15 am to 1.00 pm	Pharmacokinetic analysis
4	1.00 pm to 2.00 pm	Lunch break Molecular docking, Virtual screening. (Lab)
5	2.00 pm to 3.00	Molecular docking, virtual selections

	pm		
6	3.00 pm to 4.00 pm	Students presentation & Quiz Programme	
7	4.00 pm to 4.15 pm	Valedictory function	

The Valedictory function started with a prayer song. The students were requested to give their feedback about the programme. Five students offered the feedback. The selected five students were congratulated and this was followed by the certificate distribution to the students by the resource person Mrs. Kirthana M.V.Sindhe. The programme was completed after the National Anthem.









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