

# **SUMMER INTERNSHIP TRAINING PROGRAMME-2019**

## **PHYTOCHEMISTRY, PHARMACOGNOSY AND PHARMACOLOGY**

### **(MAY 02- 24, 2019)**

LIFE is conducting a Twenty-Day Summer Training Programme in chemical science for students in their final year UG and first year PG students studying chemistry, biochemistry and biotechnology.

**Preamble:** The Summer internship will provide theoretical and hands on training in the fields of phytochemistry and organic chemistry.

This twenty-day programme will comprise of both theory classes and hands on laboratory experience through projects in Phytochemistry and Organic chemistry.

**Eligibility:** Students of M.Sc. Chemistry, Biotechnology, Biochemistry, Pharmaceutical chemistry and students who have completed B.Sc. Courses on the above disciplines also can apply on or before 20.04.2019.

**Registration Fee:** Students who are interested can register their names by paying Rs. 5000/- only.

Selected candidates upon intimation may send the DD in the favour of "The Director, LIFE, Loyola College, Payable at Chennai"

**Number of Participants: Limited**

**Application**  
Registration forms can be downloaded from the website.  
[www.loyolacollege.edu](http://www.loyolacollege.edu)

**The last date for the receipt of filled registration form is 20.04.2019**

**Chairs**

**Rev. Dr. John Prasagam, S.J.**

Director, LIFE

**Rev. Dr. S Maria Packiam, S.J.**

Deputy Director, LIFE

**Convener**

**Dr. M.F. Valan,**

Assistant Professor

Department of Chemistry

Scientist, LIFE

**Organised by**

**LOYOLA INSTITUTE OF FRONTIER ENERGY (LIFE)**

**DIVISION OF CHEMICAL SCIENCE**

**LOYOLA COLLEGE (College of Excellence)**

**NUGAMBAKKAM, CHENNAI – 600 034**



## Natural products Research Methods

1. Authentication of herbal drugs
2. Standardization of herbal drugs and formulations
3. Marker compound analysis
4. In vitro and in vivo efficacy of herbal drugs and extracts and formulations
5. Organic Preparations

## Techniques

- Extraction
- Physico-Chemical Parameters
- Phytochemical Analysis qualitative & quantitative
- Isolation of active principles
- Characterization of isolated compounds- UV, IR, NMR spectral studies
- Biological, antibacterial, antioxidant and Protein binding activities
- Thin Layer Chromatography
- High Performance Thin Layer Chromatography
- High Performance Liquid Chromatography
- Column Chromatography
- Gas Chromatography and Mass Spectrometry

CONTACT  
CONVENER

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