

# FACULTY OF SCIENCES

## SYLLABUS

### FOR

## **B.Sc. (Agriculture)**

**(Semester V)**

**Session: 2018-19**



## **KHALSA COLLEGE AMRITSAR**

*(An Autonomous College)*

**Note: (i) Copy rights are reserved.**

**Nobody is allowed to print it in any form.**

**Defaulters will be prosecuted.**

**(ii) Subject to change in the syllabi at any time.**

**Please visit the College website time to time.**

## **B.Sc. Agriculture (Hons.) Semester-V**

### **CHE-313: Chemistry of Agrochemicals, Plant Products and Growth Regulators**

**Time: 3 Hours**

**Theory= 20 +5 (IA)**

**Max. Marks: 50**

**Practical = 20+5 (IA)**

**Periods per week 2+3**

#### **Instructions for the paper setters**

- I. Question paper should be set strictly according to the syllabus.
- II. The language of questions should be straight & simple.
- III. Not more than one question should be based on one topic.
- IV. The question paper should cover the whole syllabus and questions should be evenly distributed. 5. At least eight questions should be set, out of which the candidates should be required to attempt any five.

**Theory:** Organic chemistry as prelude to agro chemicals. Diverse types of agrochemicals, Botanical insecticides (neem), pyrethrum, synthetic pyrethroids, Synthetic organic insecticides, major classes of important insecticide, their chemistry and uses. Fungicides major- classes chemistry and uses of carbendizim, carboxin, captan, tridemorph and copper oxychloride. Plant growth regulators. Herbicides-major-classes. Chemistry and uses of 2,4D, atrazine , glyphosate, butachlor, benthocarb.

**Practical:** Argentometric and iodometric titrations- their use in analysis of important pesticides  
Compatibility of fertilizers with pesticides.