

**SUMMER-TRAINING CUM PROJECT  
WORK FOR M.Sc./M.Tech./B.Sc./B.Tech  
STUDENTS ON BIOTECHNOLOGY**

**Registration Form**

(Please write in Capital Letters)

1. Name Mr./ Ms. \_\_\_\_\_

2. Class/Qualification \_\_\_\_\_

3. University/College \_\_\_\_\_

4. Date of Birth \_\_\_\_\_

5. Category:-SC/ST/OBC/PH/General

6. Sex :-M/F

7. Mailing Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Contact Nos. \_\_\_\_\_

Draft No./Cheque \_\_\_\_\_ Dated: \_\_\_\_\_

Place

Date

Signature of Participant

**Important Dates:**

- **3 Months** Project Work (1<sup>st</sup> June-31<sup>st</sup> Aug.)  
Fee - Rs. 15000/- per participant
- **1 Month** Project work (1<sup>st</sup> June to 30<sup>th</sup> June  
and Every Month) Fee- Rs. 7,500/- per  
participant
- **1 week** training programme; Fee Rs. 5,000/-  
per participant

Send your application along with D.D. in favour of  
Principal Director, FFDC, payable at Kannauj to:

**Principal Director, F.F.D.C., G.T. Road, Kannauj -209  
726 (U.P.), India. Phone:-05694-234465,234791**

E-mail:- [ffdcnj@sancharnet.in](mailto:ffdcnj@sancharnet.in)

**SUMMER-TRAINING CUM PROJECT  
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STUDENTS ON BIOTECHNOLOGY**

Organized by



**Fragrance & Flavour Development Centre,  
Ministry of MSME, Govt. of India, Kannauj (U.P.)**

**ABOUT THE PROGRAMME**

Programme is designed to give an overview of educational, technological and commercial aspects of Bio-technology especially in tissue culture of aromatic and medicinal plants, nursery preparation by conventional and modern methods, production technology of the raw material of fragrance and flavour industry, essential oil extraction using different techniques of distillation, post harvest management, etc. This course will be beneficial for biotechnology students, persons engaged in aromatic & medicinal plants activities, entrepreneurs want to enter this field.

**MAIN TOPICS TO BE COVERED**

1. Introduction to tissue culture. 2. Historical resume of tissue culture. 3. Brief Introduction of instruments used in tissue culture. 4. In vitro culture. 5. Composition of Culture media. 6. Selection of media. 7. Introduction of selected plant material and its nutrition requirement. 8. Sterilization and preparation of material. 9. Nutrition media and establishment of callus. 10. Callus Subculture and maintenance. 11. Metabolic pattern in callus Culture. 12. Organogenesis in Tissue culture. 13. Factor controlling Organogenesis. 14. Somaclonal Variation. 15. Cell Suspension culture. 16. Organ Microculture. 17. Plant Micropropagation 18. Somatic embryogenesis in plants. Apart from above, each student will be given a project topic on aromatic and medicinal plants.

**ABOUT THE FFDC, KANNAUJ**

FFDC is a Government of India autonomous body under Ministry of Micro, Small and Medium Enterprises, engaged in serving, promoting and developing the Indian MSME and the associated students, farmers in the field of Essential oils, fragrances & flavours. The major activities of the centre include cultivation using the techniques (Modern and Conventional), processing, quality assessment & standardization of aromatic plants, development of fragrances & flavours and training on all aspects of Essential oils, fragrances & flavours.

**LODGING & BOARDING:**

Participants/ Students will provide shared accommodation in FFDC campus/colony @ Rs. 500/- per student/month excluding electricity charges. The food (breakfast, lunch and dinner) is available in FFDC canteen on reasonable payment basis.

**REGISTRATION FEE:**

Rs. 15,000/- (Rs. Fifteen thousand), Rs. 7,500/- (Rs. Seven thousand five) and Rs. 5,000/- (Rs. Five thousand) will be charged for three months, one month and one week, respectively. The fee includes theory and practical classes on agro-technology and biotechnology especially on tissue culture. After completion of project work/training students/participants will be awarded a certificate along with project report assigned by the scientist of FFDC.

**HOW TO REACH FFDC, KANNAUJ:** Kannauj is well connected with road/rail from Kanpur/Agra/Delhi. It is 80 Km far from Kanpur, 135 Km from Lucknow.

**Contact at Kannauj:** Dr. AK Sharma/Dr. RK Srivastava; Mobile:-9336617070/8004743355; E-mail:- [aditya\\_ms@rediffmail.com](mailto:aditya_ms@rediffmail.com); [rks\\_ffdc@rediffmail.com](mailto:rks_ffdc@rediffmail.com)

**Contact at Kanpur:** O/o Director (Project), FFDC Extn. Unit, 107-A, Fazalganj Industrial Area, Kanpur. 208012 Tel. 0512- 2216731; Contact Person- B.V. Shukla: 9415733696; E-mail. [bvshukla@gmail.com](mailto:bvshukla@gmail.com)

**Websites of FFDC:** [www.ffdcindia.org](http://www.ffdcindia.org)



