

## Course Director:

**Dr. M. P. Patel,**

Head of Department

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## Course Coordinator:

**Dr. H. S. Bhaduria**

Associate Professor

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## Course Coordinator:

**Dr. Anuj K. Singh**

Assistant Professor

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## Important dates:

Last date for receiving application: 26/05/2018

Selection and Intimation to candidates: 30/05/2018

## Address for correspondence:

### Course Director :

**Dr. M. P. Patel,** Head of Department

Department of Genetics & Plant Breeding

C. P. College of Agriculture,

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**Phytoextraction**



**Phytovolatilisation**

# Phytoremediation

**Phytodegradation**

**Phytostabilisation**



**ICAR Sponsored  
Summer School**



on

**Phytoremediation: Challenges and  
Scope under heavy metal stress**

**10<sup>th</sup> July to 30<sup>th</sup> July, 2018**

**Course Director**

**Dr. M.P.Patel**

**Course Coordinator**

**Dr. H.S.Bhaduria**

**Dr. Anuj K. Singh**



**-: Organised by :-**

**Department of Genetics and Plant Breeding**

**C. P. College of Agriculture**

**S. D. Agricultural University**

**Sardarkrushinagar-385 506.**

**Dist: Banaskantha, Gujarat, India**

## Background:

Urbanization and industrialization is major global challenges to Agriculture. Industrialization is the major cause of soil, water and air pollution. Heavy metals are element having density greater than 5 g per cubic cm. Metals reduce the plant production and negatively impact on human health due to incorporation in food chain. Metal uptake and partitioning in plants occurs through various transporter available on the membrane of cell. Phytoremediation is a modern technique to use plant and microbes to reduce the toxic effect of heavy metal stress in the environment. It is eco-friendly and cost effective method. Advancement of science provide us an opportunity to understand the cellular, organelle and molecular mechanism of heavy metal stress tolerance in plant.

## About the course:

Phytoremediation technique is used to reduce the contaminants from soil. In present training there will be a series of lectures and hands-on practical sessions to understand physiological, biochemical and molecular mechanism associated with the heavy metal stress tolerance in plant. Use of instruments like atomic absorption spectrometer, UV-visible spectrophotometer and flame-photometer for metals quantification in plants. Proteomics, transcriptomics and metabolomics profiling of plants under heavy metal stress will be carried out.

In Addition to SDAU faculties, experienced guest faculties will be invited from CU/CAU's/SAU's/ ICAR institutes to deliver lectures on specific area of their specialization. A visit of University research activities will also be organised.

## Date and Venue:

The summer school will be organised for 21 days from 10<sup>th</sup> July to 30<sup>th</sup> July, 2018 at the Department of Genetics and Plant Breeding, C. P. College of Agriculture, Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar- 385506. Dist: Banaskantha, Gujarat, India.

## Eligibility:

Participants are invited from Central and State Agricultural Universities/ICAR Institutes. The participants should possess M.Sc./ Ph.D. Degree in Genetics & Plant Breeding/ Genetics/ Plant Biotechnology/ Plant Biochemistry/ Plant Physiology/ Soil Science or related disciplines and presently working not below the rank of Assistant Professor.

## Registration:

The interested candidates have to apply online through Capacity Building Programme (CBP) portal at <http://cbp.icar.gov.in/applyDetails.aspx>

Applicant has to pay non-refundable registration fees of Rs. 50/- in the form of a demand draft or Indian Postal order in favour of the **“Comptroller, SDAU”** payable at Sardarkrushinagar. The online filled application should be printed out and get it approved by their competent authority of the organisation.

Approved application should be scanned and uploaded on the CBP portal. Hard copy of duly filled original application form along with registration fee should be sent to the Course Director before the closing date (26<sup>th</sup> May, 2018). If required, advance copy of application may send to Course Director, but their selection will be subjected to receiving their approved application only. The selected candidates will be informed by e-mail. Once the candidates are intimated about their selection, they need to confirm their acceptance within two days.

## Travelling allowance and accommodation:

Travel fare will be paid for to and fro journey. Reimbursement of expenditure will be limited to AC II Tier/AC bus by the shortest route for attending the training. Photocopy of train/bus ticket should be produced at the time of reimbursement. For out station participants, rent-free accommodation will be provided in University premises, wholesome meals and refreshments will be as per the normal rules of training course. Local participants will be provided lunch and inter-session refreshments only.

## How to reach Sardarkrushinagar:

Sardarkrushinagar (Dantiwada) is about 28 Km far from Palanpur railway station and 175 Km from Ahmedabad. From Palanpur railway station (Kirti Stambh), participants can avail university bus facility from 7:00 hrs to 22:00 hrs to reach **University Guest House**, Sardarkrushinagar. Dist: Banaskantha, Pin-385 506, Gujarat.