



## *Short Term Course On*

# **“Applications of Advanced Chemical Engineering”**

(03<sup>rd</sup> September 2018 to 08<sup>th</sup> September 2018)

**Organized by UGC-HRDC & Department of Chemical Engineering**  
**Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.) 495 009**

### **Introduction:**

The objective of the short term course (STC) is to enhance the knowledge of advances in Chemical Engineering and Chemical Science which includes Process Intensification, Separation Processes, Environmental Engineering, Nanotechnology, Fluidization Engineering and its industrial applications, Bio-fuels, Fuels and Combustion, Solution Thermodynamics, Phase Equilibrium and their applications, Chemical Reaction Engineering, Transport Phenomena Modelling & Simulation and Computational Fluid Dynamics (CFD). The Chemical Engineering and allied faculty members have to get updated knowledge on these selected areas and the research work undergoing on these fields.

### **Objectives:**

Provide platforms to further widen their advanced knowledge and to motivate further research on selected fields of specialization of Chemical Engineering and allied disciplines.

### **Course Content:**

- (1) Basic Concepts and advances in Process Intensification, Separation Processes.
- (2) Advances in Environmental Engineering, Fluidization Engineering and its industrial applications.
- (3) Advances in Bio-fuels, Conventional and non-conventional Fuels and Combustion.
- (4) Methodology, Applications of emerging areas of Chemical Sciences, Synthetic and Natural Product Chemistry.

(5) Advances in Solution Thermodynamics, Phase Equilibrium and their applications, Chemical Reaction Engineering.

(6) Applications of Transport Phenomena, Modelling & Simulation and Computational Fluid Dynamics (CFD) in specialization of Chemical Engineering and allied disciplines.

### **About Human Resource Development Centre (HRDC):**

UGC-Academic Staff College (ASC), presently upgraded as Human Resource Development Centre (HRDC) was initially established in Guru Ghasidas Vishwavidyalaya (A Central University) during 2009. HRDC is organising various kinds of training programmes to enhance the professional skills and knowledge of teaching and non-teaching staff. The HRDC has the state of the art ICT Laboratory equipped with high speed internet & video conferencing facilities. The facilities of Central Library of Vishwavidyalaya, equipped with more than one lakh books and journals, Science Direct and INFLIB NET, have been extended to HRDC, which make possible an easy access to books, journals and e-resources for faculties. The HRDC has developed strong linkages with reputed national and international institutes and invites eminent academicians and researchers as resource persons as per the needs of the training programmes. The highly motivated faculty, eminent resource persons, state of the art facilities and excellent logistics are the strengths of HRDC and key to the

successful organisation of many quality programmes.

### **About Department of Chemical Engineering:**

The Chemical Engineering Department is one of the premier and oldest Department of Institute of Technology. The Department was established in 1997 with a vision to establish itself as one of the best study centre of Chemical Engineering with a focus on cutting edge technology research and to produce career ready chemical engineers. The Department offers B.Tech. M.Tech. and Ph.D. course in chemical engineering. The course curriculum has been developed at the level of the premier technical institute like IIT/NIT by keeping in view the current trends in chemical industries.

The Department is endowed with well qualified faculty members strongly committed to impart high quality teaching in chemical engineering. More than 80 papers have been published in Journals/ International / National Conferences / Seminars and 4 text books have been written by the faculty members. It has well equipped laboratories in core and specialised areas of chemical engineering. The Department has received the total research grant of Rs. 41 Lakhs by funding agencies like AICTE and UGC.

### **Eligibility and Application of Participants:**

1. The teachers who belong to Chemical Engineering, Chemical Technology, Applied Chemistry, Rubbers and Plastics, Polymer Engineering and allied disciplines are eligible to apply for the course.

2. Selection will be made as per the guidelines of the UGC-HRDC and on first come first serve basis.
3. **The last date of receiving application is 31.08.2018.**
4. Limited numbers of accommodations are available in Guest House of HRDC.

The interested candidates are advised to apply via online application form at the earliest and the same application may be printed out for applying through proper channel from university web site: [www.ggu.ac.in/hrdc](http://www.ggu.ac.in/hrdc) with a registration fee (non-refundable) of Rs. 1000/- paid through NEFT/RTGS/NET BANKING/OTHER in the account of UGC-HRDC, GGV, Bilaspur (C.G.), Bank Account No.- 947410110001547, IFSC Code-BKID0009474, Branch BOI, GGV Campus, Koni to secure the participation. The participants will be paid TA as per the norms of UGC-HRDC. Bilaspur city of Chhattisgarh is well connected by rail and roadways. Regarding any further queries related to the course and other details, please contact the Course Coordinator or Director, UGC-HRDC.

### **Contact:**

#### **Programme Convenor**

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#### **Director (I/C)**

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