

Course Work on Research Methodology & Quantitative Methods of Computer Applications

(For the Ph.D students of Engineering & Technology)

02/04/2012 to 13/04/2012

Looking towards the Direction No.10 of 2011, the course work is compulsory. The course work must include topic on research methodology, quantitative methods of computer application, seminars, review of published work in the relevant field. Taking the cognizance of this, R&D cell of G. H. Raisoni College of Engineering, Nagpur is organizing this course work for the Ph.D Candidates applied for registration in different departments under the Faculty of Engineering and Technology. This course work is mandatory for the students to attend. This course work shall be applicable to all the Ph.D candidates applied for registration Cycle: July 2010, January 2011, July 2011, & January 2012).

Objective:

The objective of this course work is to enable researchers to understand and appreciate the nature, complexities and challenges of research and equip them with knowledge and skills that will enable them to choose between available techniques or methods of analysis of data. The course work will help the candidates to interpret results with reference to the objectives of a particular topic of investigation and the nature and limitations of data.

Registration

Registration is free but the Application in the attached form duly signed by the Ph.D candidate should reach the respective departmental R&D coordinators by email or hard copy on or before 20th March **2012**.

Dean (R&D)



Course Work

on

Research Methodology

&

Quantitative Methods of Computer Applications

(For the Ph.D students of Engineering & Technology) 02/04/2012 to 13/04/2012

REGISTRATION FORM

Name of Student:	 	
Department:		
Address:	 	
Phone No.:		
Mobile:	 	
Email:	 	
Email:	 	

Date:

Signature of the applicant.

Note: Ph.D Candidates have to make their own arrangements of stay and lunch. No TA/DA will be provided. Only tea will be served during the Course Work.

Course Work Schedule on Research Methodology

	Session- I	11:30	Session-II	1:10	Session- III	3:30	Session- IV
	10:00 AM To 11:30 AM	AM	11:40 AM To 1:10 PM	PM	2:00 PM To 3:30 PM	PM	3:40 PM To 5:10 PM
		То		То		То	
		11:40		2:00		3:40	
		AM		PM		PM	
Day- 1 02/04/2012	Motivation of Research		Defining a Research Problem		Methods of Research		Hypothesis Testing
Day- 2 03/04/2012	Research Design	T E	Sampling	L	Literature Review	T E	Tools and Techniques of Data Collection
Day- 3 04/04/2012	Data Generation	A	Statistical Analysis of Data	U	Use of Computer Applications for	A	Presentation of Research Findings
Day- 4 05/04/2012	Smart Materials	B R E	Interdisciplinary Research	N C	Presentation of Data How to write technical paper/Report	B R E	Writing Thesis
Day- 5 06/04/2012	Evaluation of Research	A K	Patent & Innovation	н	Case Presentation	A K	Case Presentation
Day- 6 07/04/2012	Case Presentation		Case Presentation		Case Presentation		Feedback and Discussion

	Session- I	11:30	Session- II	1:10	Session- III	3:30	Session- IV
	10:00 AM To 11:30 AM	AM	11:40 AM To 1:10 PM	PM	2:00 PM To 3:30 PM	PM	3:40 PM To 5:10 PM
		То		То		То	
		11:40		2:00		3:40	
		AM		PM		PM	
Day- 1	Use of System Software-		Use of System Software-		Hands on Practice-MS-		Hands on Practice-MS-
09/04/2012	MS Office	Т	MS Office	L	Word, Excel and Power	Т	Word, Excel and
09/04/2012	MS Office	Е	MS Office		point	Е	Powerpoint
Day- 2	Linux	Α	Open Softwares-Octave	U	Hands on Practice-	Α	Hands on Practice-
10/04/2012	.0/04/2012		Open soltwares-Octave		Linux		Octave
Day- 3	Optimization	В	Optimization	Ν	Computer	В	Computer
11/04/2012	Techniques-I	R	Techniques-II		Programming-C/C++	R	Programming- Matlab
Day- 4	Computer	E	Computer	С	Practical Department	Е	Practical Department
12/04/2012	Programming- Labview	Α	Programming-CNC		wise on Major facilities	Α	wise on Major facilities
Day- 5	Practical Department	К	Practical Department	н	Practical Department	К	Feedback and
13/04/2012	wise on Major facilities		wise on Major facilities		wise on Major facilities		Discussion

- Electronics Engineering: Image processing, VLSI, Soft computing, DSP, VSim, Adhoc Networks, Intelligent Transportation System, Embedded system, Wireless, etc
- Computer Science & Engg.: Test bugging, Data mining, Algorithm, Embedded system, Wireless, IBM Rational Rose, Image, Soft computing, Adhoc Networks, DSP, etc
- **Electrical Engg.:** Drives, Controls, FACTS devices, PLC & Scada, Soft computing, etc.
- Mechanical Engg.: Robotics, Design softwares (Unigraphcs), Production, Industrial, Materials, IC Engines, Non-Conventional energy, RAC, Heat Transfer, etc