

## NOMINATIONS

The entire process of making nominations, arranging fellowships etc., may be carried out in such a way that the CITD is in receipt of confirmed nominations backed up by funding agencies preferably a month prior to the commencement of the courses. Course brochures may be obtained by candidates or sponsoring agencies from the Institute. Candidates sponsored and supported financially by their own organisations / Governments may mail their nominations in original directly to CITD. Others seeking fellowships offered by the Government of India or other funding agencies may forward copies of nominations to the Institute for information. All correspondence in respect of nominations may be addressed to :

The Principal Director,

**CENTRAL INSTITUTE OF TOOL DESIGN**

Balanagar, Hyderabad - 500 037. AP, India.

Phone Nos. : 0091-40-23772747 / 2748 / 1959 / 6156

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### HYDERABAD - SURROUNDINGS

Hyderabad, the capital of Andhra Pradesh is the fifth biggest city in India. It is at the centre of peninsular India, approximately equidistant from Bombay and Chennai. It is easily accessible by Air from all the Metropolitan Cities of India. The city of Hyderabad presents a rich cultural heritage. The world's biggest monolithic statue of Lord Buddha, Salarjung Museum, Charminar, Medieval Mosques, Birla Marble Temple and Science Museum are famous tourist attractions of Hyderabad. The world's biggest Masonary Dam situated at Nagarjuna Sagar the world Famous Buddhist temples and caves situated at Ajanta and Ellora are easily accessible by Road / Train from Hyderabad.



## STATEMENT SHOWING BREAK-UP OF FOREIGN PARTICIPANTS TRAINED AT CITD FROM 1974 TO 2006

Sl No.	Country	No. of Participants Trained	Sl No.	Country	No. of Participants Trained
1.	Afghanistan	1	33.	Malaysia	33
2.	Armenia	2	34.	Maldives	2
3.	Bangladesh	70	35.	Mauritius	5
4.	Bangkok	1	36.	Mexico	2
5.	Belarus	1	37.	Mongolia	2
6.	Bhutan	8	38.	Mozambique	2
7.	Botswana	10	39.	Myanmar	73
8.	Cambodia	6	40.	Nigeria	60
9.	Cuba	9	41.	Oman	5
10.	Ecuador	1	42.	Panama	7
11.	Ethiopia	54	43.	Peru	2
12.	Egypt	4	44.	Philippines	36
13.	Georgia	1	45.	Republic of Benin	3
14.	Germany	1	46.	Romania	3
15.	Ghana	64	47.	Senegal	3
16.	Guatemala	4	48.	Seychelles	2
17.	Guyana	6	49.	Seirra Leone	5
18.	Honduras	1	50.	Srilanka	101
19.	Hungary	1	51.	Sudan	51
20.	Indonesia	9	52.	Suriname	2
21.	Iran	9	53.	Syria	53
22.	Iraq	71	54.	Tajkistan	2
23.	Ivory Coast	2	55.	Tanzania	31
24.	Jamaica	1	56.	Thailand	8
25.	Kazakhstan	5	57.	Trinidad	8
26.	Kenya	32	58.	Turkmenistan	1
27.	Kyrgyzstan	1	59.	Uganda	19
28.	Laos	1	60.	Uzbekistan	5
29.	Liberia	15	61.	Vietnam	14
30.	Libia	16	62.	Yemen (PDR)	17
31.	Lithuania	1	63.	Zambia	10
32.	Malawi	3	64.	Zimbabwe	6



## CENTRAL INSTITUTE OF TOOL DESIGN

(A Govt. of India Society, Ministry of SSI)

(An ISO 9001 : 2000 Institution)

# INTERNATIONAL TRAINING PROGRAMMES

## 2007-08



### CENTRAL INSTITUTE OF TOOL DESIGN

(Govt. of India Society, Ministry of Small Scale Industries)

Balanagar, Hyderabad - 500 037. Andhra Pradesh., INDIA.

(An ISO 9001:2000 Institution)

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 CAD/CAM : 00-9140-23772749, 23776178, citdcadcam@citdindia.org  
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All the courses printed in this brochure are sponsored by  
**Ministry of External Affairs under ITEC/SCAAP and**  
**Ministry of Finance under TCS Colombo Plan**

## About CITD

The Central Institute of Tool Design is a premier Institute in Asia to provide specialized training courses in Tool Engineering. The Institute was established in the year 1968 by the Government of India with the assistance of UNDP and ILO as an executing Agency. The objective of the Institute is to meet the requirements of the Industries in the field of Tool Design and Manufacture and to train the technical personnel in these fields. The Institute has strong links with industries to impart practical knowledge by way of undertaking tooling assignments.

The Institute has a well equipped Tool Room with sophisticated CNC machines like CNC EDM (Charmilles Roboform 54), CNC Wirecut EDM (AGIE Cut Classic-III & Electronics), 4-Axis & 5-Axis High-Speed Machining Centres, Kellenberger CNC Cylindrical Grinding Machine and 3D Coordinate Measuring Machine with Scanning and Digitization facilities. The Institute is equipped with latest versions of EMCO Table Top CNC Turning and Milling machines with dosed loop systems to impart training in CNC Programming. The Calibration laboratory is set up in CITD with Universal Horizontal microscope ULM OPAL 600 Carl Zeiss Technology, Germany and Slip Gauge Measuring Unit 826 with Millitron 1240, Mahr, Germany, to Calibrate Limit Gauges, Micrometers, Dial Indicators, etc. The Automation Centre is equipped with various simulator training kits like Advanced Pneumatics Trainer, Advanced Electro Pneumatics Trainer with PID controls, Advanced Hydraulics Trainer, Advanced Electro Hydraulics Trainer, Closed loop Hydraulics Trainer with PID controls, PLC Trainer, Sensors Technology Trainer, Modular Production System with Testing, Processing, Handling and Sorting Stations, Cut Section models of various Elements, Transparent working models of Hydraulics element etc.,

The CAD/CAM Centre is equipped with latest hardware like Compaq workstations. IBM, DELL Systems, Pentium IV Systems and softwares like AutoCAD 2005, MDT Ideas NX11, Pro-E wildfire 2.0, Catia V5, UG Nx3, Ansys 9.0, Nastran, Hypermesh 7.0, MasterCam 10, DelCam, Solid work, Solid edge etc.

The Institute has a special Library with collection of technical books in Tool Engineering field and subscribes to various International journals like CIRP Annals, American Machinist, Journal of Engineering Materials & Technology (ASME), Precision Engineering (JAPAN) and Precision Tool Maker etc. The Documentation Centre collects and organizes information and data useful for the technological advancement in Tool Engineering. For the dissemination of information, the centre publishes a computerised current awareness abstracting bulletin and provides technical enquiry service.

The Institute also extends its services to the developing countries by imparting knowledge and necessary skills to their personnel in the field of Tool Design, CAD/CAM and Low Cost Automation Techniques.

The Institute conducts various long term and short term programmes.

### THE LONG-TERM PROGRAMMES :

1. M.E. (Mechanical - CAD/CAM) of two years duration, recognized by AICTE, New Delhi
2. M.E. (Tool Design) of two years duration, recognized by AICTE, New Delhi.
3. Post Graduate Course in Tool, Die & Mould Design of one and a half year duration (Recognised by the Govt. of India as an advanced Post Graduate qualification for recruitment to superior posts).
4. Post Diploma Course in Tool Design of one year duration recognized by AICTE, New Delhi.
5. Diploma course in Tool, Die & Mould Making of four years duration, recognized by AICTE, New Delhi.

The trainees who had gone out of the portals of the Institute are playing key role as Tool Engineers in various establishments in the country and abroad.

## The Institute offers the following Training Programmes for International Participation during 2007-08

1. **Design of Jigs & Fixtures,**  
3rd September, 2007 to 9th November, 2007
2. **Sensors Technology for Automation**  
3rd September, 2007 to 9th November, 2007
3. **CAD / CAM (AutoCAD & Master CAM)**  
3rd September, 2007 to 9th November, 2007
4. **Programmable Logic Controllers for  
Advanced Automation**  
13th November, 2007 to 18th January, 2008
5. **Design of Die Casting & Plastic Processing Tools**  
13th November, 2007 to 18th January, 2008
6. **3D Modeling using Pro/Engineer Software**  
13th November, 2007 to 18th January, 2008
7. **Advanced Computer Aided Manufacturing**  
13th November, 2007 to 18th January, 2008
8. **Design of Sheet Metal forming Tools**  
21st January, 2008 to 28th March, 2008
9. **Mechatronics & its applications**  
21st January, 2008 to 28th March, 2008
10. **Advanced FEA / FEM using Ansys**  
21st January, 2008 to 28th March, 2008



## DESIGN OF JIGS & FIXTURES

3rd September, 2007 to 9th November, 2007

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- a) Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- b) US \$1,800/- per participant for other agencies

### Admission Requirements :

Degree or Diploma in Mechanical Engineering or its equivalent with experience in the relevant field of Tool Design.

### Synopsis :

The course theory and practice, presents a systematic and logical analysis and unveils specific jigs and fixtures requirements.

The course deals with pre-design analysis of Jigs & Fixtures, design procedures, Principles of location, Error Analysis, Design and mechanics of clamping devices, Guiding elements - standardisation and economics of jigs and fixtures - Design of various machining fixtures - Assembly and Testing fixtures - Inspection Fixtures - Design of tool holders - CNC fixtures - case studies.

The tuition fee is inclusive of the cost of technical literature and inplant local visits.



## SENSORS TECHNOLOGY FOR AUTOMATION

3rd September, 2007 to 9th November, 2007

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Engineering in any discipline.

### The Curriculum :

#### Module-I

- Mode of operation, sensor properties for proximity sensors.
- Electrical connections, Electrical circuit diagram.
- Sensing range, Actuating materials, Applications.
- Selection of sensors.
- Sensor adjustment, limitations in applications.

#### Module-II

- Mode of operation of distance & displacement sensors.
- Application of inductive, optical & ultrasonic sensors for non-contact distance measurement.
- Active & passive sensors, Control of spindle drives with a geared motor & displacement sensor.
- Measuring techniques, Measures value recording.
- Recording the sensor characteristic, Influence of interference.

#### Module-III

- Mode of operation, properties & characteristics of force & pressure sensors.
- Measuring strain & force with a strain gauge, mode of operation of an Industrial force sensor.
- Pneumatic & electrical connection of pressure sensors, measuring techniques.
- Data acquisition, Interference, Limitations in applications.



## CAD/CAM (AUTOCAD & MASTERCAM)

3rd September, 2007 to 9th November, 2007

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Mechanical Engineering with experience in the relevant field.

### The Curriculum :

#### Modules-I

- Introduction to Computers
- Fundamentals of Hardware
- Windows Overview
- Overview of AutoCAD

#### Module-II

- Geometry using AutoCAD
- Concepts of Layers, Blocks, Text, Dimensions
- Concepts of Hatching
- 2D Drafting

#### Module-III

- Concepts of 3D
- Isometric Drawings
- Creation of Solid Objects
- Development of Surfaces

#### Module-IV

- Overview of Master CAM
- 2D-Geometry creation
- 3D-Geometry creation

#### Module-V

- Generation of surfaces, Concepts of layers

#### Module-VI

- NC Parameters of Milling
- Contour, Pocket, Drill & Surface Machining
- Tool Path Generation Milling
- NC Parameters of Turning
- Straight, Taper Turning
- Groove & Thread making
- Tool path generation in Turning

#### Module-VII

- Case Study, Review and Discussion, Local Visits.

## PROGRAMMABLE LOGIC CONTROLLERS FOR ADVANCED AUTOMATION

13th November, 2007 to 18th January, 2008

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Engineering in any discipline.

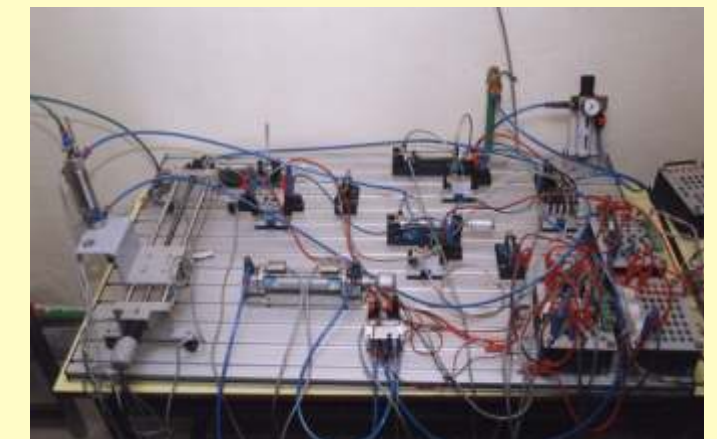
The Automation Centre is equipped with various simulator training kits like Advanced Pneumatics Trainer, Advanced Electro Pneumatics Trainer with PID controls, Advanced Hydraulics Trainer, Advanced Electro Hydraulics Trainer, Closed loop Hydraulics Trainer with PID controls, PLC Trainer, Sensors Technology Trainer, Modular Production System with Testing, Processing, Handling and Sorting Stations, Cut Section models of various Elements, Transparent working models of Hydraulics element etc.,

The Programmable Logic Controller is an Industrial Control System for flexible adoption to process sequences as well as rapid trouble shooting. The participants are familiarised with structural and functional features of PLC. The Practical demonstration to operate a PLC, in designing Pneumatic Circuits for the control tasks, programming in various PLC Programming languages, trouble shooting etc. is also included.



### The major areas of coverage are :

- Advantages of a PLC compared to conventional controls such as electrical, electro-pneumatic or electro-hydraulic controls.
- Function of the System components of a PLC.
- Commissioning a PLC.
- Criteria for the use of mechanical, optical, capacitive and inductive proximity sensors. Circuit development.
- Circuit diagram design.
- Communication between the Personal Computers and PLCs. Programming in Ladder Diagram, Function Chart and Statement List. Development of sequence and logic control systems. Defining appropriate control systems for a given control task. Modification of programmes by inserting or deleting control commands.
- Programming of counter functions.
- Programming of Timer functions. Display and modification of the status of the functional components and error messages in the PLC test system.
- Design and development of logic and sequence controls in combination with display and output elements.



## DESIGN OF DIE CASTING & PLASTIC PROCESSING TOOLS

13th November, 2007 to 18th January, 2008

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- a) Rs. 18,000/- per participant fellowships under ITEC/TCS/SCAAP
- b) US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Mechanical Engineering with experience in the relevant field of Tool Design.

### Synopsis :

The course, theory and design practice presents a systematic approach in the development of various moulds for plastics and die casting dies.

The course covers - various types of polymers viz. Thermo Plastics - Thermo setting - Applications - Design Principles of Thermo Plastics - Thermo sets - Process variables - Design features and criteria for various tooling viz. Injection moulds - compression and transfer mould - application of standard mould bases and other elements - Hot runner moulds. Application of CAD/CAM . Selection and heat treatment of tool materials - Die polishing - faults and remedies case studies. Comparison of technical aspects and economics of various casting processes Design approach of Pressure Die Casting - Design Principles of various elements - Selection of machines . Use of standard die elements - Material selection and heat treatment - Modern trends - Case studies.

The tuition fee is inclusive of the cost of technical literature and Inplant local visits.



## 3-D MODELING USING PRO / ENGINEER SOFTWARE

13th November, 2007 to 18th January, 2008

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- a) Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- b) US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Mechanical Engineering with experience in the relevant field.

### The curriculum :

#### Module-I

- Introduction to Computers
- Fundamentals of Hardware
- Windows Overview
- Overview of Pro-Engineer

#### Module-II

- Sketcher options
- Sketcher manipulation
- Geometric tools

#### Module-III

- Creation of Protrusion by Extrude and Revolve
- Creation of Datum planes, Axis & Curves
- Creation of Holes, Cuts, Slots & Shaft

#### Module-IV

- Round Chamfers
- Neck, Flange, Shell, Pipe

#### Module-V

- Patterns
- Copying Features
- Mirror Geometry

#### Module-VI

- Blend, Sweep, Helical Sweep
- Advanced Features
- Group, Suppress and Resume
- 

#### Module-VII

- Case Study, Overview and Discussion, Local Visits.



## ADVANCED COMPUTER AIDED MANUFACTURING

(Using Unigraphics and CNC Desktop Machines)

13th November, 2007 to 18th January, 2008

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Mechanical Engineering with experience in the relevant field.

### The Curriculum :

#### Module-I

Unigraphics interface, basic curves, sketch tools, Sketching techniques, constraint creations, editing techniques, sketcher settings.

#### Module-II

Form feature : Master/non-master representation, sketch based features, predefined sketch based features, datum planes, UDF creations, standard primitives, part families.

#### Module-III

Taper creation, fillets (edge, soft, face blends), chamfer, instances (pattern & mirror) types, Free form features (surface & adv. part modeling); creation of curves in different methods, ruled surface, variational surface (thru curves, thru curve mesh) & surface editing (bridge, enlarge, offset), converting surfaces to solids technique.

#### Module-IV

Introduction to UG Assembly, Introduction to Top down, Bottom up Assembly, Assembly constraints, repositioning comp., Substitute comp. & Creation of assembly array.



#### Module-V

Introduction to Drafting, drawing with/without templates, formats, Placing views, Placing dimensions, tolerances, notes etc., drafting tools, sheets, table creation etc.

#### Module-VI

Introduction to UG manufacturing, machining environment, setting M/C co-ordinates systems, shop documentations, types of milling operations, Generating NC sequences like cavity milling, planar mill, etc. simulation of cutter locations, gauge checks, generating CL file (cutter location file), editing CL files, converting the created CL files in specified Controller.

#### Module-VII

NC, CNC Programming and Machining

- Overview of CNC M/c
- G. Codes
- M. Codes
- Work Datum Points
- Tool Data
- 2D Geometry
- Canned Cycles
- Subroutines
- Multi-Tool programming
- Overview of 3D Geometry
- Practice on CNC machines

#### Module-VIII

Case Study, Review and Discussion, Local Visits.



## DESIGN OF SHEET METAL FORMING TOOLS

21st January, 2008 to 28th March, 2008

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Mechanical Engineering with experience in the relevant field of Tool Design.

### Synopsis :

The course provides an opportunity to generate interaction between designers and practicing field engineers in sharing the latest techniques.

The course deals with - theory of shearing economics of various strips layouts - Design criteria and principles of various tooling viz, Shearing dies - Bending dies - Forming and drawing dies - use of standard elements - die sets - types and selection of presses - special blanking and drawing processes - CAD/CAM applied to economical strip layout and Press tools - Modern trends in metal forming - Faults and remedies case studies.

The tuition fee is inclusive of the cost of technical literature and inplant local visits.



## MECHATRONICS & ITS APPLICATIONS

21st January, 2008 to 28th March, 2008

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- US \$1,800/- per participant for other agencies

### Admission Requirements :

Degree or Diploma in Engineering in any discipline.

The Automation Centre is equipped with various simulator training kits like Advanced Pneumatics Trainer, Advanced Electro Pneumatics Trainer with PID controls, Advanced Hydraulics Trainer, Advanced Electro Hydraulics Trainer, Closed loop Hydraulics Trainer with PID controls, PLC Trainer, Sensors Technology Trainer, Modular Production System with Testing, Processing, Handling and Sorting Stations, Cut Section models of various Elements, Transparent working models of Hydraulics element etc.,

The concept of Mechatronics and the scope of its application in the industries of developing countries has become more relevant in the present juncture, particularly for increasing productivity in view of the synthesis technological applications using not only conventional mechanical technology but also the existing engineering freely for the required purposes by integrating the available system concept and the interface concept which are required to merge the various technologies for certain desired functions.

Since the philosophy of Mechatronics is based on the system concept pertaining to integration of the internal functions to perform the tasks, the interface concept aims to combine the various components through functional mechanical interface, physical interface, information interface and environmental interface. The main objective of this training programme is to impart new knowledge to the participants on the design and applications of Mechatronics.

### The major areas of coverage are :

- Applied Industrial Pneumatics
- Applied Industrial Hydraulics
- Mechanical Engineering, Materials, Heat treatment & Machining Processes
- Applied Electrical & Electronic controls including microprocessors & Programmable Logic Controls
- Mechanisation
- Exposure on NC & CNC and CAD/CAM
- Exposure on Robotics and their applications for automation
- Exposure of Flexible Manufacturing systems
- Practical demonstration in the laboratories

## ADVANCED FEA/FEM USING ANSYS

(Structural and Thermal Analysis)

21st January, 2008 to 28th March, 2008

Duration : 10 Weeks

Intake Capacity : 30

### Fee :

- Rs. 18,000/- per participant for fellowships under ITEC/TCS/SCAAP
- US \$1,800/- per participant for other agencies.

### Admission Requirements :

Degree or Diploma in Mechanical Engineering with experience in the relevant field.

### The Curriculum :

#### Module-I

Introduction to FEA (Finite Element Analysis), Introduction to FEA/FEM concepts like nodes, elements, finite element model, preprocessor, solution processor, FEA applications etc.

#### Module-II

Basic Ansys interface graphic area, tool bars, drop down menus etc.

#### Module-III

##### Preprocessor :

- Defining element types, defining real constants, speck material properties
- Ansys Modeling Technique : Creating editing of key points, lines, areas, volumes, Datum planes
- Meshing : Meshing, Modifying meshing, Controlling / refining mesh size etc.
- Loads : Specifying degree of freedom applications of loads, load setting, defining load steps, writing, writing LS (Load steps)

#### Module-IV

Solution Processor : Different analysis types, solving the problem, reading LS files for solution, load step outputs etc.

#### Module-V

Post Processor : Visualization of results, writing result files.

#### Module-VI

APDL, Parameters & Macros, Modal Analysis, Harmonic Analysis, Transient Dynamic Analysis, Nonlinear Analysis

#### Module-VII

Case Study, Review and Discussion, Local Visits.



## FELLOWSHIPS AND STIPENDS

CITD by itself does not fund for participation in any of the international training programmes. However, fellowships are usually made available by a number of agencies such as :

### Government of India through :

- Technical Co-operation Scheme of Colombo (TCS)
- Special Common Wealth African Assistance Programme (SCAAP)
- Indian Technical and Economic Co-operation (ITEC)
- Aid to Sri Lanka

### International Organizations :

- Common Wealth Fund for Technical Co-operation (CFTC)
- Common Wealth Industrial Training & Experience Programme (CITEP)
- United Nations Industrial Development Organisation (UNIDO)
- International Labour Organisation (ILO)
- World Bank (IBRD)
- Other agencies assisting developing countries in industrial development

### Allowances payable direct to Scholars

Funding agencies / sponsoring organisations may adopt their own level of awards currently in vogue in respect of

- International air travel
- Subsistence allowances
- Accommodation
- Study tour outside Hyderabad (within India)
- Book allowance
- Medical care
- Contingencies such as unavoidable overstay, rerouting of international air travel etc., to an adequate extent. Embarkation fee on departure from India. These cost indications are applicable to fellowship awards from funding agencies other than the Government of India.

For details of fellowship awards from the Government of India through the schemes of TCS of Colombo plan, SCAAP/ITEC and other bilateral and regional arrangements, the High Commissions/Embassies of India at locations may be contacted.

Participants are advised to carry adequate cash to cover contingencies such as enforced halts, re-routing of air travel, long distance telephone bills, emergencies during study visits within India etc. Fellowships by their nature may not cover such contingencies.

### REMITTANCE CITD

Tuition fee and travel cost of study tour are to be paid to the Institute by the funding agency/sponsoring organisation (other than Government of India) in free foreign exchange through a bank draft in favour of the Principal Director, CITD, Balanagar, Hyderabad, A.P, India. Living allowances, accommodation and other allowances may be paid direct to the participants in the form of traveller cheques or uncrossed bank draft, since opening of bank account by a foreigner in India needs special permission.

### WHOM TO CONTACT

Intending applicants or other organisations may contact the High Commission / Embassy of India accredited to the country for details regarding fellowship awards available through the Government of India. For fellowship awards from CFTC, CFTC headquarters at London (Common Wealth Secretariat, Common Wealth Fund for Technical Co-operation, Marlborough House, Pall Mall, London SW1Y 7TH, England) may be contacted. For fellowships offered by other international agencies, regional offices of these organisations in the respective countries may be contacted.

