

Announces
INTERNATIONAL RESIDENTIAL TRAINING PROGRAMMES

Sl.No.	PROGRAMME TITLE	DURATION	DATES
1	Maintenance Engineering and Management	10 weeks	11 Jul. – 16 Sept. 2011
2	Condition Based Maintenance	10 weeks	03 Oct. – 09 Dec. 2011
3	Industrial Electronics and Instrumentation	10 weeks	03 Oct. – 09 Dec. 2011
4	Management Development	10 weeks	09 Jan. – 17 Mar. 2012

ABOUT THE INSTITUTE

Established in 1983, IIPM is a pioneering centre for the training and development of front-line managers from industries in the frontier areas of technology and management. It is promoted by the ICICI Ltd, with an investment of about US \$ 1.6 million. It also enjoys the active support of leading industrial establishments in India.

The Institute has developed excellent Laboratory/Workshop facilities in the areas of Industrial Hydraulics & Pneumatics, Electronics, Instrumentation, Process Control, Welding, Condition Monitoring, Computers etc. Sophisticated Hardware/Software equipment obtained from UK form a major part of these facilities. A good collection of video cassettes, Open Learning packages and Computer Based Training materials is the unique possession of the Institute. These facilities are constantly being updated to meet the growing demand for training in up-coming areas.

The Institute has set up a centre for Condition Based Maintenance in collaboration with Wolfson Maintenance, University of Manchester, UK and is taking up consultancy assignments in this area. The Institute conducts a large number of short duration courses for participants sponsored by the Indian Industries, develops & conducts tailor-made in-house courses at their premises and carries out consultancy assignments in Condition Monitoring apart from offering long-duration training programmes for overseas participants.

Located at Kansbahal, 20 KM away from the Steel City of **Rourkela in Orissa State**, the Institute has scenic surroundings and a plush campus with excellent office and class room facilities, residential accommodation for faculty and fully furnished self-contained hostel rooms for participants. The Institute is administered by a Governing Council, ably supported by a Management Committee consisting of representatives from reputed industries.

INTERNATIONAL PROGRAMMES AT IIPM

The first group of international participants came to IIPM, in 1985. The Institute has never looked back since then and conducted a number of programmes on Manufacturing Engg. & Management, Maintenance Engg. Management, Industrial Electronics and Instrumentation, Condition Based Maintenance, Management Development etc.

While the first batch of foreign nationals was sponsored by the Colombo Plan Scheme of the Government of India, there are two additional sponsors: The Special Commonwealth African Assistance Plan (SCAAP) and the Indian Technical and Economic Co-operation (ITEC) scheme of Govt. of India

Today IIPM has the expertise to design and conduct tailor-made training programmes on emerging areas of technology and management to successfully execute Consultancy assignments in the area of Condition Based Maintenance and also to set-up training and development centres for clients from the developing parts of the world.

In order to streamline these activities an international Programme Office has been set up at the Institute. IIPM is determined to make every effort to extend the general awareness of the importance of modern technology and its relevance to the quality of life and overall economic growth amongst the developing world.

LIST OF NATIONS WHO HAVE SPONSORED PARTICIPANTS TO IIPM PROGRAMMES

1. Afghanistan	20. Eritrea	39. Kyrgyzstan	58. Nicaragua	75. St. Vincent
2. Albania	21. Egypt	40. Kenya	59. Nigeria	76. Sudan
3. Algeria	22. Ethiopia	41. Korea	60. Oman	77. Surinam
4. Armenia	23. Ecuador	42. Kyrgyzstan	61. Panama	78. Swaziland
5. Azerbaijan	24. EL Salvador	43. Laos	62. Palestine	79. Syria
6. Bahrain	25. East Timor	44. Latvia	63. Papua New Guinea	80. Tajikistan
7. Bangladesh	26. Fiji	45. Lesotho	64. PDR of Yemen	81. Tanzania
8. Belarus	27. Gambia	46. Liberia	65. Philippines	82. Thailand
9. Benin	28. Georgia	47. Macedonia	66. Romania	83. Trinidad & Tobago
10. Bhutan	29. Ghana	48. Madagascar	67. Rwanda	84. Turkmenistan
11. Botswana	30. Guatemala	49. Maldives	68. Senegal	85. Tonga
12. Bolivia	31. Guyana	50. Malawi	69. Seychelles	86. Tunisia
13. Cambodia	32. Indonesia	51. Malaysia	70. Sierra Leone	87. Uganda
14. Cameroon	33. Iran	52. Mauritius	71. Somalia	88. Ukraine
15. Colombia	34. Iraq	53. Mexico	72. Solomon	89. Uzbekistan
16. Comoros	35. Ivory Coast	54. Mongolia	73. South Africa	90. Uruguay
17. Costa Rica	36. Jamaica	55. Myanmar	74. Sri Lanka	91. Vietnam
18. Cuba	37. Jordan	56. Namibia		92. Zambia
19. Dominica	38. Kazakhstan	57. Nepal		93. Zimbabwe

HOW TO GET TO KANSBAHAL

The nearest Train Station is ROURKELA and the nearest International Airport is KOLKATA (CALCUTTA). Participants are advised to fly to Kolkata (Calcutta) and then take a train to Rourkela. Participants can buy train ticket and prepaid taxi coupons at Kolkata (Calcutta) Airport. They should buy taxi coupons for Railway station and reach Howrah (name of the Railway station). At Howrah they should board the train and reach Rourkela. On reaching Rourkela Railway Station, please hire a taxi for IIPM, Kansbahal (20 KM).

If travel plans are informed in advance IIPM shall depute a representative at Kolkata (Calcutta) Airport for assistance. This will make the journey comfortable. IIPM Kolkata (Calcutta) phone numbers are 91-33-22836403 / 22829790, Mobile: 09831040922 / 09432085080

TRAIN TIMES AT HOWRAH ARE AS FOLLOWS

Name of Train	Train No.	Departure from Howrah	Arrival at Rourkela	Daily
Ispat Express	2871-UP	0655 Hours	1335 Hours	Yes
Bombay Express	8030-UP	1500 Hours	2305 Hours	Yes
Gitanjali Express	2860-UP	1400 Hours	1950 Hours	Yes
Ahmedabad Express	2834-UP	2355 Hours	0615 Hours	Yes
Sambalpur Express	8005-UP	2135 Hours	0445 Hours	Yes
Howrah-Kurla Super Delux Express	2102-UP	2255 Hours	0455 Hours	(Tue, Thu, Fri, Mon)

01. MAINTENANCE ENGINEERING & MANAGEMENT

DURATION: 10 WEEKS

DATE: 11 Jul. – 16 Sept. 2011

The Programme

This programme is an integration of 4 separate modules viz. Mechanical Maintenance, Electrical Maintenance, Maintenance Management and Man-Management Techniques. It is meant for managers engaged in maintenance activities in industries. This will give a comprehensive exposure not only on various maintenance methods, but also on management techniques with emphasis on human relations. The techniques used for prolonging the life of machines and equipment at reduced cost resulting in higher capacity utilisation will be specifically dealt with.

Designed for

Degree/Diploma holders in Mechanical/ Electrical Engineering with around 5/10 years of experience respectively in industries in maintenance related activities.

Objectives

At the end of the programme participants will be able to -

- Prepare lubrication schedule for plant and equipment
- Carry out trouble-shooting of fluid power systems
- Prepare maintenance schedules for diesel sets
- Perform repair welding operations
- Select electrical drives for industrial applications.
- Workout systematic maintenance procedures for electrical equipment
- Properly plan, schedule and control maintenance activities
- Apply Condition Monitoring Techniques on running equipment
- Improve upon their interpersonal skills for effective shop floor management.
- Make a holistic approach to solve maintenance problems leading to Total Productive Maintenance.

Coverage

Mechanical Maintenance

- Selection of Materials for Maintenance
- Principles of Lubrication
- Lubrication Management
- Selection & Maintenance of Bearings
- Operation & Maintenance of Diesel Sets
- Repair Welding Techniques
- Industrial Hydraulics & Pneumatics

Electrical Maintenance

- Selection of Electrical Drives
- Troubleshooting and Maintenance of Electric Drives
- Operation and Maintenance of Transformers & Switchgear
- Maintenance of Power Distribution Systems

Maintenance Management

- Objectives of Maintenance
- Preparation of Maintenance Schedules
- Maintenance Planning and Control
- Condition Monitoring Techniques
- Spare Parts Planning
- Value Engineering
- Maintenance Cost Control
- Computerised Maintenance Management
- Total Productive Maintenance
- Safety Management

Man-Management Techniques

- Effective Communication
- Interpersonal Skills
- Team Building and Team Leading
- Motivating Self and Others

Study Visit

Project Work

02. CONDITION BASED MAINTENANCE

DURATION: 10 WEEKS

DATE: 03 Oct. – 09 Dec. 2011

The Programme

This programme aims at giving a thorough grounding on the various techniques used in monitoring the health of equipment for the purpose of Need-Based Maintenance of capital-intensive equipment used in modern industries. It will be of great value to maintenance engineers who are looking towards minimising the down-time of their costly machinery. The main thrust will be on improving overall equipment effectiveness through the integration of various condition monitoring techniques.

Designed for

Degree/Diploma holders in Mechanical/ Electrical Engineering with around 5/10 years of experience in maintenance departments in industries.

Objectives

At the end of the programme participants will be able to:

- Identify critical machines suitable for condition monitoring
- Use correctly various instruments for condition monitoring
- Evolve a systems approach to introduce Condition Based Maintenance
- Apply the concept of Condition Based Maintenance in their industries.
- Bring in improvements in overall equipment effectiveness.

Coverage

Basics

- Concept of Condition Monitoring
- Identifying Critical Plant
- Diagnostic Techniques and Methodology
- Selection of Techniques

Vibration Monitoring

- Vibration Measurement, Analysis and Monitoring
- Vibration Analysis of Different Types of Machinery
- Condition Monitoring of Bearings
- Shock Pulse Techniques

Lubricant Monitoring

- Tribological Concepts
- Wear Debris Analysis
- Oil Monitoring
- Lube Oil Conservation

Thermal Monitoring

- Temperature Monitoring Techniques
- Infra-red Thermography
- Thermal Imaging Techniques

Advanced Topics

- Condition Monitoring of Electrical Equipment
- Non-Destructive Testing
- Corrosion Monitoring
- Performance Monitoring
- Computerised Systems
- Improvement in Overall Equipment Effectiveness
- Case Studies

Man-Management Techniques

- Effective Communication
- Interpersonal Skills
- Team Building and Team Leading
- Motivating Self and Others

Study Visit

Project Work

03. INDUSTRIAL ELECTRONICS & INSTRUMENTATION

DURATION: 10 WEEKS

DATE: 03 Oct. – 09 Dec. 2011

The Programme

This programme is an integration of 4 separate modules viz. Basic Electronics, Digital Electronics, Microprocessors and Process Instrumentation. It gives an exposure to the fascinating field of Electronics - starting from basics upto modern microprocessor based controls. Electrical Engineers, who want to have a good foundation in Electronics will find the course quite useful. Troubleshooting & fault finding techniques form an integral part of the course.

Designed for

Degree/Diploma holders in Electrical Engineering with around 5/10 years of experience in industries in the field of control, automation, maintenance etc.

Objectives

At the end of the programme participants will be able to:

- Identify and specify a range of electronic components
- Use test instruments correctly
- Build up and evaluate a variety of analog & digital circuits
- Configure the architecture of microprocessors
- Specify application of microprocessors in their working areas
- Apply the principles of electronics in the measurement and control of process variables.
- Perform logical fault finding on electronic equipment.

Coverage

Basic Electronics

- Circuit Elements
- Diodes, Rectifiers, Regulators
- Transistors, Amplifiers
- Operational Amplifiers
- Power Electronics
- Analog Fault Finding
-

Digital Electronics

- Number Systems
- Logic Gates
- Flip Flops
- Counters & Shift Registers
- Encoders, Decoders
- A to D and D to A Conversion
- Digital Systems
- Digital Fault Finding

Microprocessors

- Computer Arithmetic
- Microprocessor Architecture
- Memories
- Input-Output Techniques
- Microprocessor Programming
- Microprocessor Applications
- Programmable Logic Controllers
- Robotics
- Logical Fault Finding

Process Instrumentation

- Measurement Techniques
- Transducers
- Electronic Instrumentation
- Principles of Automatic Control
- Transmitters, Recorders, Controllers
- Final Control Elements
- Data Acquisition, Transmission & Display
- Microprocessor Based Instrumentation
- Computerised Process Control.

Man-Management Techniques

- Effective Communication
- Interpersonal Skills
- Team Building and Team Leading
- Motivating Self and Others

Study Visit

Project Work

03. INDUSTRIAL ELECTRONICS & INSTRUMENTATION

DURATION: 10 WEEKS

DATE: 03 Oct. – 09 Dec. 2011

The Programme

This programme is an integration of 4 separate modules viz. Basic Electronics, Digital Electronics, Microprocessors and Process Instrumentation. It gives an exposure to the fascinating field of Electronics - starting from basics upto modern microprocessor based controls. Electrical Engineers, who want to have a good foundation in Electronics will find the course quite useful. Troubleshooting & fault finding techniques form an integral part of the course.

Designed for

Degree/Diploma holders in Electrical Engineering with around 5/10 years of experience in industries in the field of control, automation, maintenance etc.

Objectives

At the end of the programme participants will be able to:

- Identify and specify a range of electronic components
- Use test instruments correctly
- Build up and evaluate a variety of analog & digital circuits
- Configure the architecture of microprocessors
- Specify application of microprocessors in their working areas
- Apply the principles of electronics in the measurement and control of process variables.
- Perform logical fault finding on electronic equipment.

Coverage

Basic Electronics

- Circuit Elements
- Diodes, Rectifiers, Regulators
- Transistors, Amplifiers
- Operational Amplifiers
- Power Electronics
- Analog Fault Finding
-

Digital Electronics

- Number Systems
- Logic Gates
- Flip Flops
- Counters & Shift Registers
- Encoders, Decoders
- A to D and D to A Conversion
- Digital Systems
- Digital Fault Finding

Microprocessors

- Computer Arithmetic
- Microprocessor Architecture
- Memories
- Input-Output Techniques
- Microprocessor Programming
- Microprocessor Applications
- Programmable Logic Controllers
- Robotics
- Logical Fault Finding

Process Instrumentation

- Measurement Techniques
- Transducers
- Electronic Instrumentation
- Principles of Automatic Control
- Transmitters, Recorders, Controllers
- Final Control Elements
- Data Acquisition, Transmission & Display
- Microprocessor Based Instrumentation
- Computerised Process Control.

Man-Management Techniques

- Effective Communication
- Interpersonal Skills
- Team Building and Team Leading
- Motivating Self and Others

Study Visit

Project Work

04. MANAGEMENT DEVELOPMENT

DURATION: 10 WEEKS

DATE: 09 Jan. – 17 Mar. 2012

The Programme

A manager being the key link between the workforce at one end and the senior executives at the other, their effective working contributes significantly to the success of any industrial set-up. In the developing world, where industries are fast growing, there is a need to mould excellent cadres of managers. This programme aims at bringing the necessary 'Management Mindedness' in them.

Designed for

Degree/Diploma holders in Engineering and Post-Graduates/Graduates in Science/ Arts with around 5/10 years of experience in any functional area in organisations and those who are recently promoted to management positions will find the programme very useful.

Objectives

At the end of the programme participants will be able to:

- Specify their roles in the Organisational set up
- Identify their various responsibilities
- Properly plan, organise & control their work
- Adopt appropriate productivity improvement techniques in their work areas
- Bring-in cost effectiveness in their operations
- Improve upon their interpersonal skills for effective management
- Train and develop their subordinates
- Take actions for self development.

Coverage

Management Principles

- Role of Managers
- Principles of Management
- Planning, Organising and Controlling Work

Management Techniques

- Productivity Improvement Techniques
- Problem Solving Techniques
- Financial Management
- Total Quality Management
- Value Engineering
- Time Management

Man-Management

- Effective Communication
- Interpersonal Skills
- Team Building
- Leadership
- Motivation
- Self Development

Advanced Management

- Management of change
- Management of Technology
- Stress Management
- Information Technology

Study Visit

Project Work

FOR ALL PROGRAMMES

Faculty

In addition to Institute faculty, experts from industries, higher education/research institutes and consultancy organisations will share their experience with the participants.

Methodology

The programmes will be held through class-room lectures supported by audio-visual presentations, practical demonstrations/ hands-on exercises, case studies, group discussions, study visits, Project work etc. **Participants are strongly advised to bring a live problem with them so that they can work on it during the course of programme to find possible solutions.**

Venue

The programmes will be held at the Institute campus at Kansbahal. Participants will be accommodated in fully furnished self-contained double-seated rooms in the hostel, where recreational facilities like TV, indoor/outdoor games etc. are available. Breakfast, Lunch, Evening Snacks and Dinner are served in the hostel. The temperature variation at Kansbahal during the programme period is approximately as follows:

July-September	: 40°C-30°C
September-December	: 30°C-15°C
January-March	: 15°C-30°C

Nominations

Applications, duly sponsored, must reach the Institute as early as possible, but not later than one month before the commencement of the programmes. The total intake in each programme will not be more than 30.

After screening of all applications, selected candidates will be invited to join the programme, when further details as to how to reach the Institute will be given. Please note that late applications will be considered only if there are vacancies. Hence, care must be taken to ensure that the nominations reach the Institute in time. The decision, made by the Institute on the selection of candidates, will be final and any correspondence regarding the reasons for non-selection will not be attended to.

Nominations should be sent to:

**Director
IIPM
Kansbahal P.O.
(Near Rourkela)
Orissa - 770 034
INDIA**

Phone: 91-6624-280322 / 280948

Fax : 91-6624-2280122

E-mail: info@iipm@ac.in, pal_rn@iipm.ac.in

Scholarships

Scholarships to attend these programmes are available under ITEC/SCAAP/COLOMBO PLAN Schemes of the Government of India. Details of these Scholarships and applications can be obtained from Indian Missions in the member countries.

Few self - sponsored participants will also be taken at a fee of US\$ 3500.00 per participant. The fee includes tuition, course material, board & lodging.

Money Change

Money change facilities don't exist at Rourkela which is the nearest town to Kansbahal. Participants are advised to change their entire money into Indian Rupees at the major Airport of landing (Kolkata, Mumbai, New Delhi & Chennai). Only American Express Travellers Cheques and US Dollars can be changed at State Bank of India, Rourkela. Anything other than this must be changed at the major Airport of landing in India.