

GENERAL INFORMATION

Eligibility

Candidates with long experience in the relevant field at supervisory/ middle management levels and sponsored by their employers.

Nomination

Must reach 15 days before the commencement of the Course to the Associate Dean (Research & CE) NIFFT, Hatia, Ranchi.

Course Fee Rs. 10,000/- per week (Inclusive boarding and lodging) in the form of demand draft drawn in favour of "National Institute of Foundry and Forge Technology," Ranchi.

NIFFT was established by Government of India in collaboration with UNDP, UNESCO in 1966 with the objectives to organize teaching and training programme, conduct research and development in frontier areas pertaining to Foundry and Forge Technology and technological guidance and documentation service to foundry and other related engineering industries.

NIFFT is administered through a duly constituted Board of Governors representing Foundry and Forge Organizations, Professional bodies, education and research institutions, Ministry of Human Resource Development, Ministry of Industries and All India Council for Technical Education.

NIFFT now offers (1) M. Tech. Degree Course in Foundry and Forge Technology, (2) M. Tech. Degree Course Manufacturing Engineering, (3) B. Tech. Degree Course in Manufacturing Engineering (4) B. Tech. Degree Course in Metallurgy and Materials Engineering (5) Advanced Diploma Course in Foundry Technology (6) Advance Diploma Course in Forge Technology (7) M. Tech in Environmental Engineering. (8) M. Tech. in Material Science and Engineering. (9) A series of short Term Refresher course in specialized areas and (10) Unit based programmes of short duration on request from the Industries of Institution. (11) Ph. D Programme.

NIFFT offers consultancy services in the form of problem shooting, preparation of project reports, selection and evaluation of equipment and machinery and testing of raw materials, Casting, Forgings and other components. Beside this, it also provides documentation and information retrieval service in Foundry/Forge technology and allied fields through its Library and Documentation centre.

NIFFT campus is located in southern part of Ranchi on Ranchi Chaibasa road at Hatia which is about 10 KM from Ranchi railway station, 3 Km from Hatia railway station and about 6 Km from Ranchi Airport. It is in close proximity to the Heavy Engineering Corporation Complex. Ranchi being located at little over 600 meters height from the mean sea level, has pleasant climate all through the year. Summer season is mild and winter fairly moderate while humidity level remains low throughout the year.

For more information please contact

Director	0651-2290859(O)
Dean Academic	0651-2292041
Fax No.	0651-2290860
Email- bijoy_2000in@yahoo.com	
www.nifft.ac.in , www.nifft.ernet.in	

NIFFT

NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY

HATIA: RANCHI- 834003

**CENTRALLY FUNDED
TECHNICAL INSTITUTE
(UNDER MHRD, GOI, NEW DELHI)**



**Programme of
Refresher
Courses 2015-16**

NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY

HATIA: RANCHI- 834003

(UNDER MHRD, NEW DELHI)

REFRESHER COURSE PROGRAMMES FOR THE YEAR 2015-16

Course No.	Course Title	Duration of Period	Course Director
406	Computer Aided Design, Analysis and Inspection – Principles and Applications	October 5 to 9, 2015	Dr. G. Rajamohan (+919097705657) e-mail: g.rajamohan@yahoo.co.in
	Course content: Principles of CAD - Surface and solid modeling techniques and tools - Practice on modeling of dies and molds using standard CAD software - to finite element modeling- FEM software - Practice on simulation and analysis of typical Industrial components using standard FEM software - Introduction to geometric dimensioning and tolerancing (GD&T) - Measurement and evaluation of form tolerances - Computer aided inspection of typical components - Vision-based measurements		
407	Forging Practice and Heat Treatment	November 2 to 6, 2015	Dr. Manoj Kumar (+919934369266) e-mail: mknift@gmail.com
	Course content: Design aspect of forging and their significance. Procedure of working out of forging drawing and technology for open and close die forgings. Developing the forging drawing of some jobs. Factors affecting the metal flow in closed dies. Forgeability, friction and lubrication, die temperature, size and shape factor. Flash and gutter. Preforming dies like edger, fuller, blocker etc. Selection of forging equipments. Die wear, die materials, forging defects, Use of software like DEFORM, Die Manufacturing. Heat Treatments of dies and forgings		
408	Casting Practices Grey and S.G.Iron	November 16 to 21, 2015	Dr. Amitesh Kumar (+919835529160) e-mail: amitesh_nift@yahoo.com
	Course content: Solidification of Cast iron; Structure, Properties and applications of various grade of Grey and S.G.iron; Charge materials and melting practices; Effects of alloy additions of Grey and S.G.iron and inoculation for S.G.Iron production; Gating, feeding and moulding practices; Heat treatment of Grey and S.G.iron; Casting defects and remedial measures.		
409	New Trends in Forging Practice	November 23 to 28, 2015	Dr. Rajkumar Odhar (+918986719859) e-mail: rkodhar@yahoo.com
	Course content: Near Net Shape Forging; Hot, Warm & Cold Forging; Superplastic forging; P/M forging; Liquid forging; Isothermal forging etc. Forging of aircraft materials; Die design consideration of optimizing metal flow in closed die and die life improvements; Die wear and die materials; Designing performing, finisher, trimming and punching dies; Design consideration for die blocks in various types of equipments; Economics in die design; Analysis of Metal Flow; Die design modeling and simulation analysis using software viz. DEFORM etc. Computer-Aided Designing and Manufacturing; Introduction of Design of Experiment (DOE) and its application in forging and die design.		
410	Role of Solar Power for Remote Areas	January 4 to 8, 2016	Mrs. Madhu Kumari (+919431578435) e-mail: singhmadhumanoj@yahoo.co.in
	Course content: Introduction about solar power, generation, installation, Transmission (off grid or on grid), Power Saving, economy perspective, Environmental benefits, Cost analysis etc.		
411	Material Characterization, Testing and Quality Assurance	January 11 to 15, 2016	Dr. Debdas Roy (+919470358294) e-mail: droy2k6@gmail.com
	Course Content: Optical microscopy, Electron microscopy(SEM micrograph, Fractograph and TEM micrograph), XRD techniques (Crystal structure, lattice parameter, phase identification, quantitative analysis of phases, grain size, strain, residual Stress, defect density, texturing), Mechanical testing (Tensile, Impact etc.), Non Destructive Testing (Radiography, Ultrasonic, Magnetic particle, dye penetrative, Eddy current tests etc.), Statistical parameters for quality assurance, control chart etc.		
404	Mould and Core making practice for quality castings	February 22 to 26, 2016	Dr.(Mrs.) N. Gupta (+919431108164) Email id: ng_nift@yahoo.com
	Course content: Base sands, their selection; clays and clay bonded sand system; their characteristics and applications; inorganic and organic binders based moulding and core making practices; additives and washes; special moulding process; machine moulding and high pressure moulding; sand reclaimations; casting defects and remedial measures.		
405	Soft Skills Development	February 22 to 27, 2016	Mrs. S. S. Gupta (+919431903896) e-mail: sujatahem@gmail.com
	Course content: Assertive Communication Skills, Stress & Time Management, Creative & Critical Thinking, Decision Making & Problem Solving Skills, Self Esteem, Positive Thinking, Emotional Intelligence, Leader Ship. Netiquette, Presentation Skills, Etiquette, Written Communication, Ethics & Values.		

NATIONAL INSTITUTE OF FOUNDRY AND FORGE TECHNOLOGY

HATIA, RANCHI-834003

(UNDER MHRD, NEW DELHI)

NOMINATION FORM FOR REFRESHER COURSE

Name and Mailing Address
Of Sponsoring Organization:

Phone: _____ Mob: _____ Fax _____

Name of Nominee _____ Age _____ Designation _____
(Block Letter)

Educational Qualification of Nominee

Nature of Experience and Duration

Mailing Address of Nominee

Phone: _____

Signature of Nominee

(To be filled in by Sponsoring Authority)

Mr. is nominated of course
no. entitled
..... starting form
..... to

Signature of Sponsoring Authority

Office Stamp

Demand Draft No.	Bank	Date	Amount

N.B. : Please send Demand Draft in favour of "National Institute of Foundry & Forge Ranchi" only. If more nomination forms required, Xerox copies may be used.