



5. Fees, course content & Duration					
Sr. No.	Industry Partner	Course Name & Code	Course Content	Duration	Fees
1	Tata Steel Ltd., Jamshedpur, Jharkhand	Mechanical Engineering (FIAP - 01)	Industrial Hydraulic, Advanced Lubrication System, Rolling contact bearing, Gear Box maintenance, Industrial Valve, Centrifugal Pump, Condition monitoring and diagnostic technique, Welding & Gas Cutting, Automobile, Conveyor Belt System	10 days (2 Weeks)	<b>Course Fee</b> Rs.17500/- (excluding of all taxes)
		Electrical Engineering (FIAP - 02)	Elect. Machine, Protection and Power system, Elect. Drive, Programmable Logic Controller (PLC), Process Automation & Distributed Control System (DCS), In-house developed automation solutions, Automation at Hot Strip Mill (HSM), Automation at Cold Rolling Mill (CRM)		<b>Logistic Fee</b> Rs.20000/- (excluding of all taxes)
		Metallurgical Engineering (FIAP - 03)	Coke Making, Agglomeration – Sinter & Pellet Making, Blast Furnace Operation, LD Steel Making, Flat & Long Product Rolling, Steel Plant Refractory		[Logistic fees include charges for Hostel Accommodation, Fooding & Local conveyance only.]
2	Eveready Industries India Ltd., Kolkata, West Bengal	Electrical & Production Engineering (FIAP - 04)	Basis of HR & IR, Safety, Health & Environment, Finance & Accounts, Supply Chain Management, Quality Assurance, Manufacturing Process, Engineering & Projects	10 days (2 Weeks)	<b>Course Fee</b> Rs.17500/- (excluding of all taxes) <b>Logistic Fee</b> Logistic has to be arranged by the candidates.
3	Aunwsha Academy, Kolkata, West Bengal	Certificate in IOT Techniques and applications (FIAP - 05)	Introduction to IOT, IOT Environment, Refresher on C language, Refresher on Basic Electronics, The Arduino Platform, Arduino Experiments, IOT Security, Industry project.	10 days (2 Weeks)	<b>Course Fee</b> Rs.17500/- (excluding of all taxes) <b>Logistic Fee</b> Logistic has to be arranged by the candidates.
		Certificate in IOT Techniques and applications (Raspberry Pi Track) (FIAP - 06)	Introduction to IOT, IOT Environment, Refresher on Basic Electronics, Refresher on Python language, The Raspberry Pi Platform, Raspberry Pi Experiments, IOT Security, Industry project.		
		Certificate in Block Chain Technology and Applications (FIAP - 07)	Overview of Block chain, Business use of block chain, foundational concepts, Crypto currencies, Ethereum, The hyperledger ecosystem, Hyperledger composer Web Playground, Block chain as a service, Industry project.		
		Certificate in Data Science & Analytics – Python Track (FIAP - 08)	Introduction to Data Science, Overview of statistics, statistical computing in Python-I, Data visualization in Python, statistical computing in Python-II, Data cleaning and preparation in Python, Creating data visualizations in Tableau, Analytics for business domains, Industry project.		
		Certificate in Data Science & Analytics – R Track (FIAP - 09)	Introduction to Data Science, Overview of statistics, statistical computing in R-I, Data visualizing in R, statistical computing in R-II, Data cleaning and preparation using R, creating data visualisations in Tableau, Analytics for Business Domains, Industry project.		
6. Assessment & Certification :			BOPT (ER) and the Industry Partner provide the Certificate of Participation.		



व्यावहारिक प्रशिक्षण बोर्ड (पूर्वी क्षेत्र)

## BOARD OF PRACTICAL TRAINING (EASTERN REGION)

Under  
Department of Higher Education,  
Ministry of Education, Govt. of India.

भारत सरकार उच्चतर शिक्षा विभाग,  
शिक्षा मंत्रालय के अधीन

### FACULTY-INDUSTRY ATTACHMENT PROGRAMME (FIAP)

[www.boptergov.in](http://www.boptergov.in)



## 1. Faculty Industry Attachment Program (FIAP)

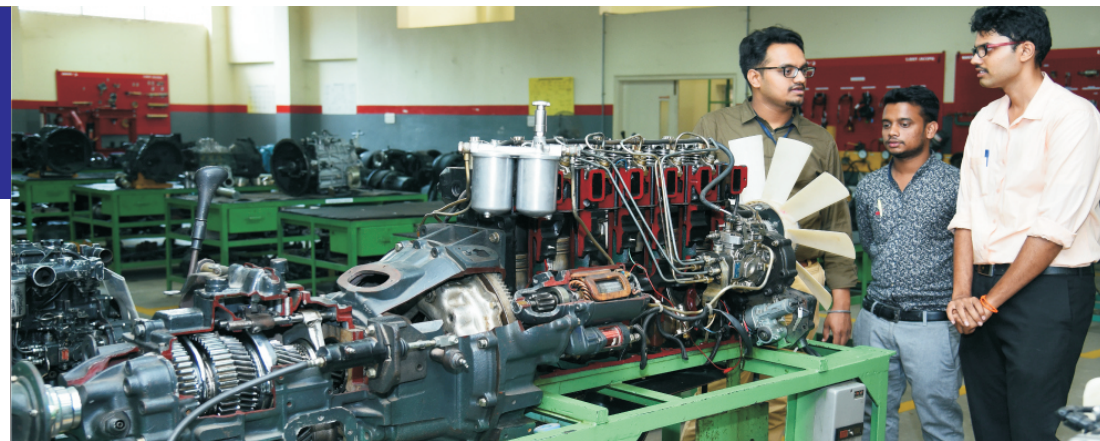
The need for an improvement of professional development in education is almost axiomatic. Every proposal for educational reform emphasises the need for high quality professional development that will enable faculties to keep abreast of a rapidly growing knowledge base in education. The FIAP is aimed for high quality professional development.

## 2. Need for FIAP

Most of the Faculty Development Programs running in India are primarily class room, laboratory and work shop oriented. The FIAP is primarily a 100 hours on-job Faculty Development Program fully discipline oriented in relevant industries. India having highest number of educational institutions in the world has highest number of teachers and faculties. The unprecedented growth of technical institution in the past two decades led to a shortage of updated and well trained faculty members. Thereby it has created a quality challenge for technical education. Inspite of all round efforts introduced through public and private partners to develop the skills amongst faculties, still there is a need for well-trained faculty members to improve programs for producing quality graduates to meet the industry demand. BOPT (ER) launched the following disciplines -

- Mechanical Engineering
- Electrical Engineering
- Metallurgical Engineering
- IOT techniques and applications – Arduino track / raspberry pi track
- Block chain technology and application
- Data Science and analytics – python track / R track.

(More disciplines are going to be added in this list)

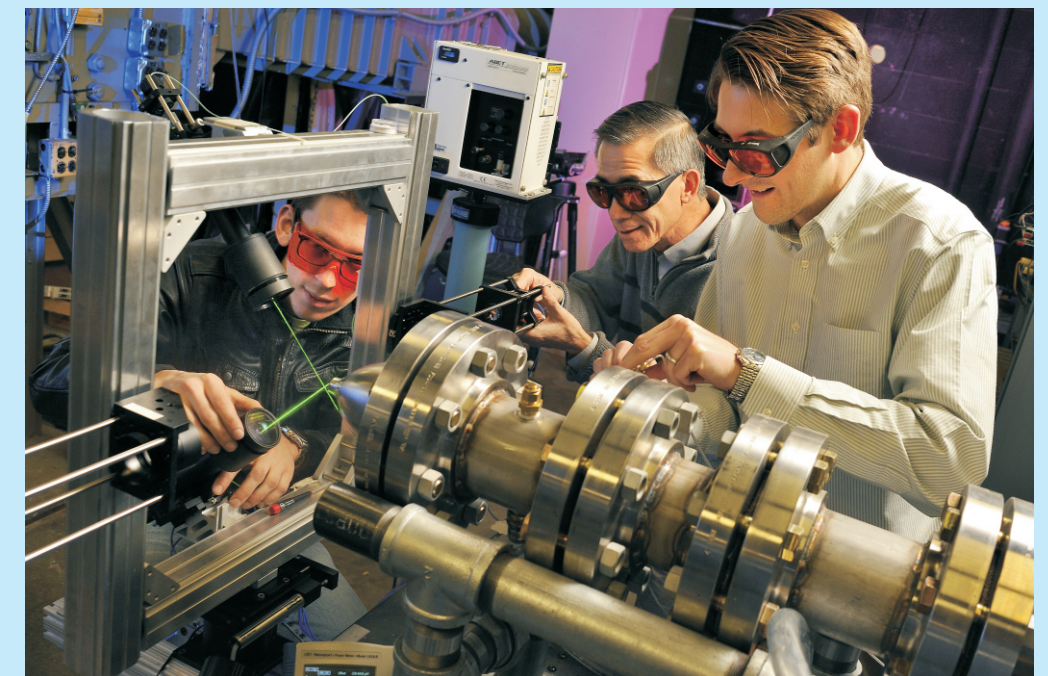


## 3. Benefits of FIAP

- ✓ Emphasize disciplinary relevance.
- ✓ It is on-job.
- ✓ Include both disciplinary and pedagogical expertise.
- ✓ Practice what you preach includes tutorial and project work.
- ✓ Assessment of program effectiveness and certification.
- ✓ The course is designed and implemented on a continuing basis requiring substantial commitment of faculty time and knowledge.

## 4. Industry Partners

- ✧ M/s. Tata Steel Ltd., Jamshedpur, Jharkhand.
- ✧ M/s. Eveready Industries India Ltd., Kolkata, West Bengal.
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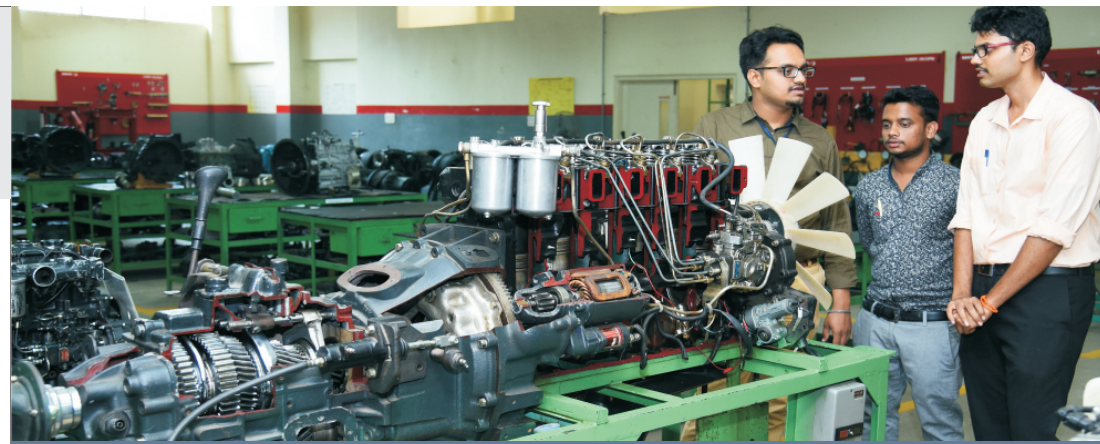
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