ABV- Indian Institute of Information Technology and Management,

Gwalior

Training For Professionals

Sponsored by:

Department of Information Technology
Ministry of Communication
& Information Technology
New Delhi

Project Objective

Information Technology has grown at an alarming pace in last decade. The software development tools and open source have become big buzz words of the modern era. Management is another field that has seen a huge demand among the corporate. Every professional needs to be a good manager, no matter what domain he/she comes from. A good knowledge of these fields, coupled with an impressive personality can make any professional excel in his/her field.
 The condition in the Indian context is quite discouraging. Lack of knowledge leads to slow pace of development for the individual, the corporate and the country at large. This condition can be felt at the IT and ITES industry where there is an immediate shortage of trained professionals who can deliver quality work according to the needs of the industries.

Eventhough the requirement in the IT and ITES industry is massive, only 25% of the desirous students are able to get a professional training in these domains. This makes the rest 75% unemployable. The major problems in this field are:
- Inconsistent Foundation: Syllabus, curriculum and coverage are not complete. There is inadequate number of faculties.
- Lack of professional skills/life skills: People are unaware of team management skills, project management skills, etc.
- Technology: Syllabus is not appropriate. So students study obsolete things. Only 15% of these 25% people possess professional skills like communication skills, personality, project management etc. These mainly belong to the urban population. Their counterparts are mostly unemployed and require 3 times more effort.

ABV-IIITM Gwalior has taken a novel step in this regard. The institute is committed to provide high quality training to about 50 to 75 professionals per batch all around the country totaling to about 300 students. The course of the training has been carefully designed to ensure its applicability in the corporate. The 12 week programme will help in guiding the professionals all round the country for excellence in Technology and Management and to keep then updated about the latest developments.

The key objectives of the programme are:
- Offering suitable candidates to IT & ITES industry.
- Helping young graduates find job by inculcating IT and soft skills components through appropriate training.

The institute will endeavor attempts to secure the job of the participants. The programme however does not guarantee any employment and the participants would not be treated as students of the Institute. The rich and diverse course of the training would cover all the requirements of the individual. We have courses aiming at the all round development of the individual, which includes:
- Software Development
- Management Skills
- Corporate Training
- Personality development

Details of the program

The Training for Professional program was inaugurated by Dr. M.N. Buch, Chairman, BOG, ABV-IIITM, Gwalior. Dr. B.K. Murty, Head, National Knowledge Network Division, DIT, Ministry of Communications and IT, New Delhi, was chief guest of the function. Mr. Devkant Agarwal, Head IBM Academic Initiatives, IBM; Mr. Sunil Dahia from NIIT; Dr. S. J. S. Flora, Head of Regional Centre, DRDE, Gwalior; Dr. Sitikantha Mishra, Director IITTM, Gwalior; Prof. Y.P Singh, Director, MITS, Gwalior graced the occasion and deliberated on various aspects and benefits of the training program. The function was attended by faculty of ABV-IIITM Gwalior and the students of Training for Professionals. For details please visit http://tfp.iiitm.ac.in/. The program at ABV-IIITM, Gwalior has got enormous appreciation and successfully completed three batches.

In order to achieve excellence in training, the key factors are as follow:
1. Good Content.
2. Visiting faculty from IITs and Experts form Software Industries.
3. Live industrial projects.
4. Placement support.

Schedule of the training

Batch No.	Duration of Training	Period	Status
Batch -1	3 Months (530 Hrs)	15th September 2008 To 14th December 2008	Completed
Batch -2	3 Months (590 Hrs)	08th January 2009 To 07th April 2009	Completed
Batch -3	3 Months (581 Hrs)	01st August 2009 To 31st October 2009	Completed
Batch -4	3 Months (600 Hrs)	15th January 2010 To 14th April 2010	Ongoing
Batch -5	3 Months (600 Hrs)	1st August 2010 To 31st October 2010	Scheduled
Batch -6	3 Months (600 Hrs)	1st December 2010 To 28th February 2011	Scheduled

Criteria for the selection

Short-listing is done on the basis of overall academics performance which includes percentage of the student in Degree, 12th, 10th and B.E / B. Tech / M.C.A / M. Sc degree. Eligibility criteria of the courses are B.E. / B.Tech. (CS/IT/ET) as well as M.C.A & M. Sc (IT / CS).

Manpower Details

Serial No	Name	Designation	Work Assigned
1.	Mr. Pritesh Tiwari, B.E (E&TC)	Scientist Engineer	Faculty Co-ordination, Placements, Selection of Trainees, Website
2.	Mr. Vishal Taiya, B.E (CSE)	Project Assistant	Library/ Attendance/ Grading
3.	Mr. Hemant Verma, B.E (CSE)	Project Assistant	Supervision of Networking/ Maintenance
4.	Mr. Nagendra Singh, DCA	Office Assistant	Supervision of Professional Computing Lab
5.	Mr. Sanjay Sharma, B-Com	Office Assistant	Supervision of hostel for the Training Program

Faculty Details

Sr. No	Name	Affiliation	Designation
1.	Dr. R.C. Mittal	IIT Roorkee	Visiting Faculty
2.	Dr. P. Gupta	IIT Kanpur	Visiting Faculty
3.	Dr. Sudha Bhandari	ABV-IIITM, Gwalior	Visiting Faculty
4.	Dr. Naval Bajpai	ABV-IIITM, Gwalior	Visiting Faculty
5.	Dr. Manoj Patwardhan	ABV-IIITM, Gwalior	Visiting Faculty
6.	Dr. Aditya Trivedi	ABV-IIITM, Gwalior	Visiting Faculty
7.	Dr. J. Suresh	Infosys Trainer, Bangalore	Visiting Faculty
8.	Mr. Nimal Roberts	IIT Kanpur	Visiting Faculty
9.	Mr. Rekh Ram Janghel	ABV-IIITM, Gwalior	Visiting Faculty
10.	Mr. K.K. Bajpeyee	Corporate Trainer, Bangalore	Visiting faculty

Industry Partners

Sr. No	Name	Affiliation	Designation
1.	NIIT Limited	New Delhi	Visiting faculty
2.	Tata Consultancy Services	Noida	Visiting Faculty
3.	WIPRO Technologies	Bangalore	Visiting Faculty
4.	SEED INFOTECH Ltd	Pune	Visiting faculty
5.	MICROPRO	Kolkatta	Visiting faculty
6.	SUN WORKS Pvt Ltd	Gurgaon	Visiting faculty

Temporary Lab Facility has been created Utilizing, a Floor of ABV-IIITM having Equipments as described in the Table Below

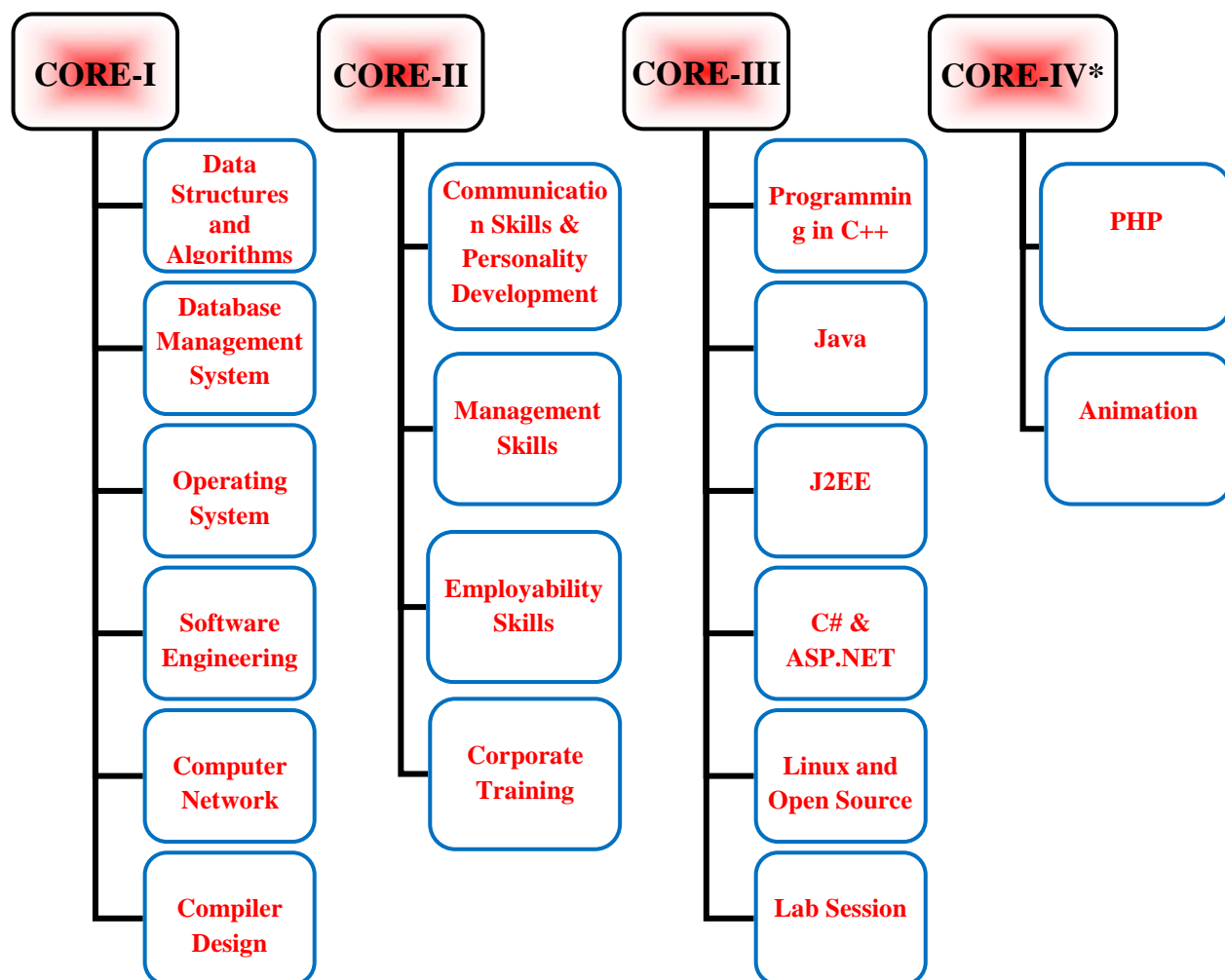| Sr. No	Item	No. of Units	Specification
1.	Computer Systems	75	P-4 (Core 2 v-Pro)
2.	Printers	09	4 (Mono)& 5 (Color)
4.	Scanners	06	5 and 1 (With Document Feeder)
5.	Photo Copier	01	Without Document Feeder
6.	Multi Function Printer	02	1 HP & 1 Samsung
7.	LCD Projectors	02	1 (5000 ANSI Lumens) & 1 (2000 ANSI Lumens)
8.	Laptop	08	Core 2 Duo (Dell, Sony, HCL)
9.	Wide Screen LCD Monitor	01	(With TV Tuner Card)
10.	Switches	02	1(48-Port) & 1(8-Port)
11.	Wireless Router	01	24 Ports Wireless + 4 Ports Wired
12.	Audio System	01	With Cordless & Collar
13.	Furniture	125	Computer Tables, Computer Chair, Office Chairs, Sofa Set, Tables
14.	Fixtures	5	Water Cooler, RO-Water Filter Water Bottle Dispenser

Hostel Infrastructure:

All boys and girls undergoing training are accommodated in furnished single seated rooms at Boys Hostel BH-2 and Girls Hostel respectively and provided mess facility.

Library Facility

The training program has a separate library facility specially tailored for the course curriculum of training.
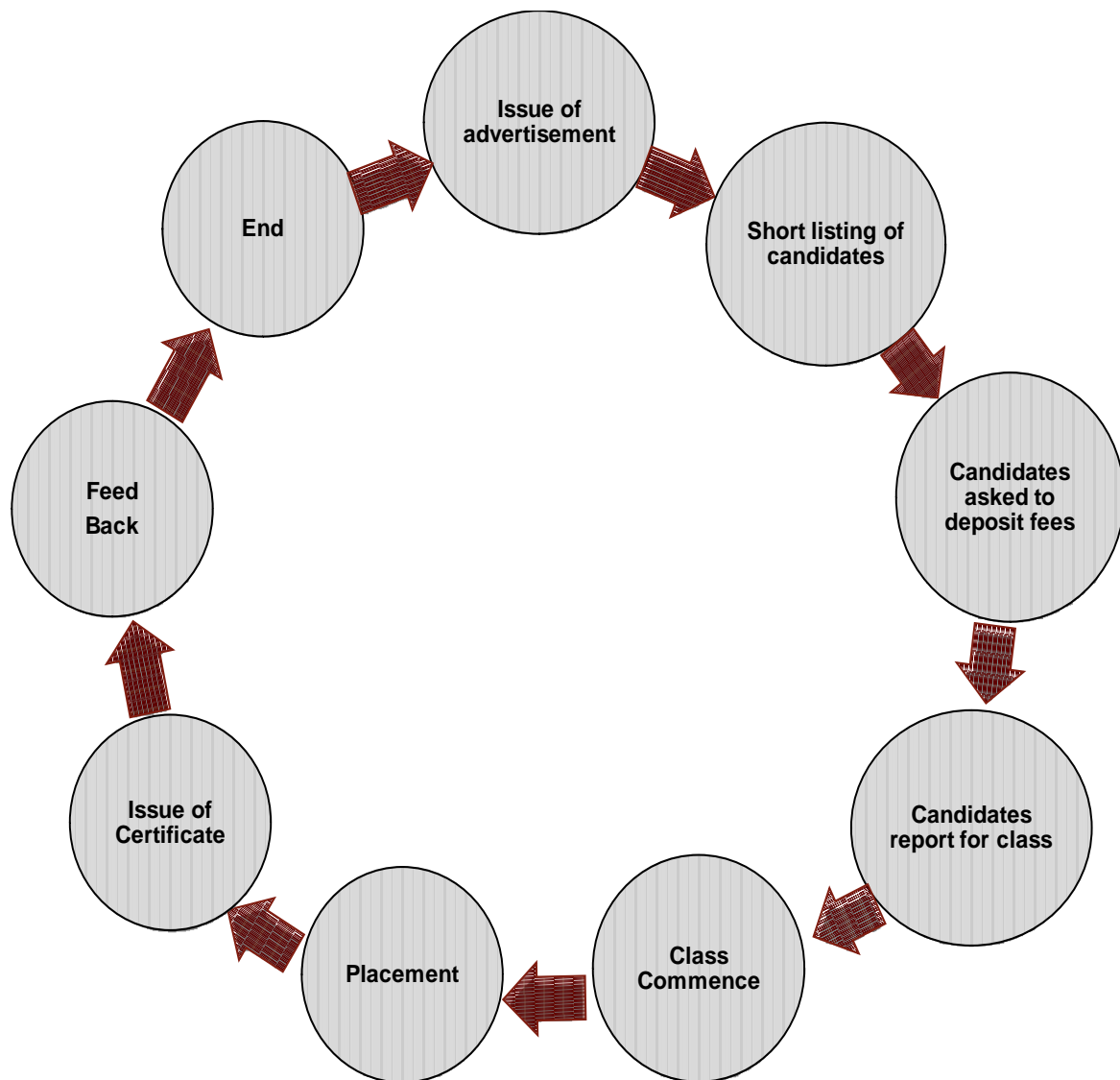
Training Course Structure

CORE-I
- Data Structures and Algorithms
- Database Management System
- Operating System
- Software Engineering
- Computer Network
- Compiler Design

CORE-II
- Communication Skills & Personality Development
- Management Skills
- Employability Skills
- Corporate Training

CORE-III
- Programming in C++
- Java
- J2EE
- C# & ASP.NET
- Linux and Open Source
- Lab Session

CORE-IV*
- PHP
- Animation

Faculty Engaged for the Training

Batches	CORE-I			CORE-II	CORE-III		CORE-IV
Batch-1	ABV-IIITM	IIT-Roorkee	TCS Noida	ABV-IIITM Gwalior	NIIT Ltd.	IIT-Kanpur	
Batch-2	ABV-IIITM Gwalior	TCS Noida.		ABV-IIITM Gwalior	SEED Infotech. Ltd, Pune	IIT-Kanpur	
Batch-3	ABV-IIITM Gwalior	TCS Noida.		ABV-IIITM Gwalior	MICROPRO, Kolkatta	IIT-Kanpur	
Phase-4	ABV-IIITM	TCS Noida.		ABV-IIITM	MICROPRO, Kolkatta	IIT-Kanpur	Prointegra IT Solution (P) Ltd, Nagpur

Indicative list of Projects

- DSP Automation System
- Development of TPF On Line Examination
- Development of TPF Employment group/site
- Development of Hostel System Management
- Development of Hospital System management
- Design and development of on-line Shopping
- Design and development of Indian Tourism Information website
- Oracle to Java connectivity (Interfacing)

Typical Cycle in a Training Program

Issue of advertisement → Short listing of candidates → Candidates asked to deposit fees → Candidates report for class → Class Commence → Placement → Issue of Certificate → Feed Back → End → Issue of advertisement

Feedback

All the participants give there feed back after the training is finished and based on this modification in the curriculum has been done to improve the quality of the content and also change the trainers if there quality of lectures are not appreciated by the trainees.

An overview of List of tentative Programming skills covered under TFP program

C++

- **Principles of Object-Oriented programming**
- **Classes and Objects**
- **Constructors and Destructors**
- **Inheritance**
- **Operator overloading and Type conversions**
- **Pointers in C++**
- **Virtual function and Runtime polymorphism**
- **C++ streams**
- **File handling in C++**
- **Templates**
- **Exception handling**

Core Java

- **Java primitives**
- **Classes and Objects**
- **Inheritance**
- **Interfaces**
- **String handling in Java**
- **Streams and Files**
- **Exception Handling**
- **Packages and Inner Classes**
- **Applets**
- **Events and Swing**
- **Multi-threading**
- **Java Database Connectivity (JDBC)**

J2EE

- **The Java 2 Enterprise Architecture**
- **Java Servlet Essentials**
- **Session Tracking in Servlets**
- **The Essentials of Java Server Pages (JSP)**
- **Handling Java Beans from JSP**
- **AJAX**
- **Enterprise Java Bean (EJB) Essentials**
- **MVC Framework**
- **Apache Struts**
- **Using Hibernate to connect Database**

Introduction to ASP.NET

- **Web Application Fundamentals**
- **Creating a Virtual Directory**
- **From ASP to ASP.NET**
- **Browser Independence**
- **Separation of Code and Content**
- **State Management**

Web Forms Architecture

- **Web Forms Architecture**
- **View State**
- **Web Forms Event Model**
- **Page Processing**
- **Page Events**
- **Code-Behind in ASP.NET 3.5**
- **ASP.NET 3.5 Code-Behind Page**

Web Applications Using Visual Studio

- **Using Visual Studio**
- **ASP.NET Applications**
- **Sessions**
- **Global.asax**
- **Web Application Life Cycle**
- **Data Binding**
- **Session Data**
- **Sessions Using IIS**

Server Controls

- **Web Controls**
- **Validation Controls**
- **Required Field Validation**
- **Regular Expression Validation**
- **Rich Controls**
- **Copying a Web Site**

More Server Controls Web Applications

- **ASP.NET 3.5 Control Improvements**
- **New Controls in ASP.NET 3.5**
- **Master Pages**
- **Using a Menu Control**
- **Creating Content Pages**
- **TreeView Control**
- **Master Page Application**

Data Access in ASP.NET 3.5

- **Data Access in ASP.NET 3.5**
- **Creating a Connection**
- **Using Database Explorer**
- **Performing Queries**
- **SQL Generation Options**
- **Enable Edit and Delete**
- **Editing Records**
- **GridView Control**
- **DetailsView Control**

Personalization and Security

- Security in ASP.NET 3.5
- ASP.NET Membership
- Login Controls
- Membership Demonstration
- Web Site Administration Tool
- Access Rules
- Profile Properties
- Using ASP.NET Profile Properties

Database Programming Using ADO.NET

- ADO.NET Architecture
- .NET Data Providers
- Programming with ADO.NET Interfaces
- .NET Namespaces
- Connected Data Access
- ADO.NET Class Libraries
- Using Commands
- Creating a Command Object
- ExecuteNonQuery
- Using a Data Reader
- Data Bound Controls
- Filling the Dataset
- Displaying the Data Set

Introduction to Web Services

- ASP.NET and Web Services
- Industry Standards
- Web Services and Remoting
- XML
- XML Namespaces
- Uniform Resource Identifier
- XML Schema
- SOAP
- WSDL

Ajax

- The anatomy and architecture of an Ajax application
- Using the XMLHttpRequest object to build asynchronous web
- Updating a web page using the Document Object Model (DOM)
- Build a basic screen widget library
- Forms and post requests
- Protecting your Ajax applications
- Build a form-driven application for maintaining a database
- Using XML requests and responses with the DOM
- Using JavaScript Object Notation (JSON) in Ajax applications
- Exploring open source Ajax toolkits and libraries
- SQL SERVER 2005
- Advanced SELECTs with SQL Server
- Subqueries, Joins, and Unions with SQL Server
- Inserting, Updating and Deleting Records with SQL Server
- Creating and Modifying Tables with SQL Server
- Views and Stored Procedures in SQL Server

List of participant trainees

Sr. No.	Batch – 1	Batch-2	Batch-3	Batch-4
1.	Akanksha Sinha	Niraj Kumar Singh	A.K. Arakkal Shaji	Abhishek kumar seth
2.	Ankita Choudhary	Rajeev Gupta	Abhishek Agarwal	Akhilesh kumar pandey
3.	Anupriya Agrawal	Dushyant Kumar	Abhishek Patel	Amit khandelwal
4.	Aparna Tripathi	Keenu Singh	Ajeet Kumar Prasad	Amit kumar
5.	Ashutosh Shukla	Shrey Vashishtha	Alka Kumari	Anil kumar kanojia
6.	August Nayak	Sudama Kumar	A. Kumar Mishra	Anju verma
7.	Babu Ram	Pankaj Keshari	A. Kumar Sharma	Anuj mathur
8.	Debabrata Paul	Vineet Bhatia	Amit Kumar	Anuj shrivastav
9.	Deepti Bansal	Birbal Kumar Shah	A. Kumar Agrawal	Archana singh
10.	Deepti Gupta	Md. Ashraf	Amit Kumar Pandey	Avdesh kumar
11.	Diwakar Pyasi	Dhruv Singh	Amrita Kaur	Ayesha fatma
12.	Faishal Khan	Satyam Malviya	Aniket Singh Kumar	Babli adarsh
13.	Gaurav Taneja	Nidhi	Anshu Saxena	Bhaumik indrawal
14.	Gourav Talyan	Jagriti Singh	Anuj Kumar	Chhote lal
15.	Gunjan Kumari	Yogesh Kumar	Ashish Sankrityayan	D satish
16.	Hem Kumar Pal	Reeta Rawat	Ashok Kumar Tiwari	D. Pavithra
17.	Jay Prakash	Kalpana Sikarwar	A. Kumar Sharma	Debashish nath
18.	Jay Prakash Gupta	Atul Tiwari	P. G. Bangad	Deepali kansal
19.	J. Singh Tomar	Sheetal Verma	Divya Pola	Kavita balu kadam
20.	Kumar Neelesh	Prashant Shrivastava	Divya Verma	Laliteshwar kumar
21.	Manish Ranjan	Kamaljit Kumar	P. Prakash Ganorkar	Manish kumar sinha
22.	Manju Gupta	Balwant Kumar	Gaurav Kumar	Mukesh ku. Choudhary
23.	Manpreet Kaur	S. Singh Rathore	Gauri Pol	Muneer alam
24.	Nishant Jain	O. Prasad Tripathi	Gautam Kumar	Neeraj yadav
25.	O. Prakash Soni	Rishi Kant Tiwari	Hanwant Singh	Niladri saha
26.	Pankaj Rajesh	Prashant Sharma	Kunal Hasija	Nisha rai
27.	Parghi Kirti Kumar	Saurav Kumar	Manisha Madhavi	Nitin gavendra
28.	P. Ku. Singh Yadav	Shobhit Mani Tiwari	Mayank Verma	Parichay yadav
29.	Piyush Sharma	Pritisha Meshram	Prakash Chandra Mishra	Parul agrawal
30.	Pooja Verma	Nitin Saini	Mitesh Mutreja	Priyanshu chandel
31.	Prashant Sharma	Abhijit Astana	Kunal Narayan	Priyanshu pandey

32.	Rajeev Ranjan	Amit Kumar	Nishant Sinha	Pushpi rani
33.	Raveesh Kumar	Abhimanyu Agrawal	P. A. Srivastava	Rahul kumar
34.	Ravi Arya	Abhishek Gupta	Shantanu Prakash	Rajesh ahirwar
35.	Reena Yadav	Manjeet Singh	P. Ram Khobragade	Rajesh kumar ahirwar
36.	Richa Mishra	Rohan Rajak	Rahul Kumar	Rakesh vishwakarma
37.	Ritesh Kumar	R. Prakash Sharma	Rahul Pawaiya	Ram gopal joshi
38.	Rizwan Ali Khan	Aayam Gupta	Raj Kumar	Ram kumar
39.	Satya Patel	V. Nuthalapati	Rajan Kumar	Ram kumar d
40.	Shikha Shukla	Meenakshi	R.K. Goswami	Ram kumar goswami
41.	Shilpi Agrawal	V. K. Swarnkar	Rajnarayan Kumar	Rashi khemaria
42.	Sobit Gupta	Md Khalid Pervez	Rakhi Arya	Ravi krishna
43.	Somvir Singh Bharti	Ujjwal Kumar	Ramesh Kumar	Ravi verma
44.	Surya Deo Kumar	Akanksha Deepak	Ranveer Choudhary	Ritesh gupta
45.	Swati Pauranik	M. M.Rafiqui	Ravi Kumar Jain	Ritesh kumar
46.	Upjeet Kaur	Praveen Kumar	Richa Saksena	Ritika parashar
47.	V. Ku. Vishwakarma	Basudev Jena	S.P. Kumar	Rohit kumar
48.	Vijay Kumar Sen	Sundeep Kumar Rai	Sanghamitra Basu	Rohit shrivastav
49.	Vikas Soni	Rajeev Sahu	S. K.Vishwakarma	S vivekan
50.	Vivek Singh	Vikash Tiwari	Saurabh Bansal	Sanjeet kumar
51.		Ruchi Tilwani	Saurabh Suman	Satya prakash
52.		Pushkar Arya	Sekaran Janani	Shashi kant
53.			Shakuntala Manjhi	Shruti dandotia
54.			Shashi Kumar	Sneh lata
55.			Sheel Kumar	Soneram verma
56.			Shishupal Kumar	Soni chaudhary
57.			Suchandra Pal	Sudigali nagamani
58.			Sumant Kumar	Tarini mishra
59.			Udaysingh Keshari Jajati	Vikram singh chandel
60.			Varsha Raina	Vikram singh tomar
61.			Vibha Singh	Yogesh kumar sharma
62.			Vishal Makkar	
63.			Vivek Vishnu	
64.			Yogesh Singh Yadav	

Students Statistics: *State Wise*
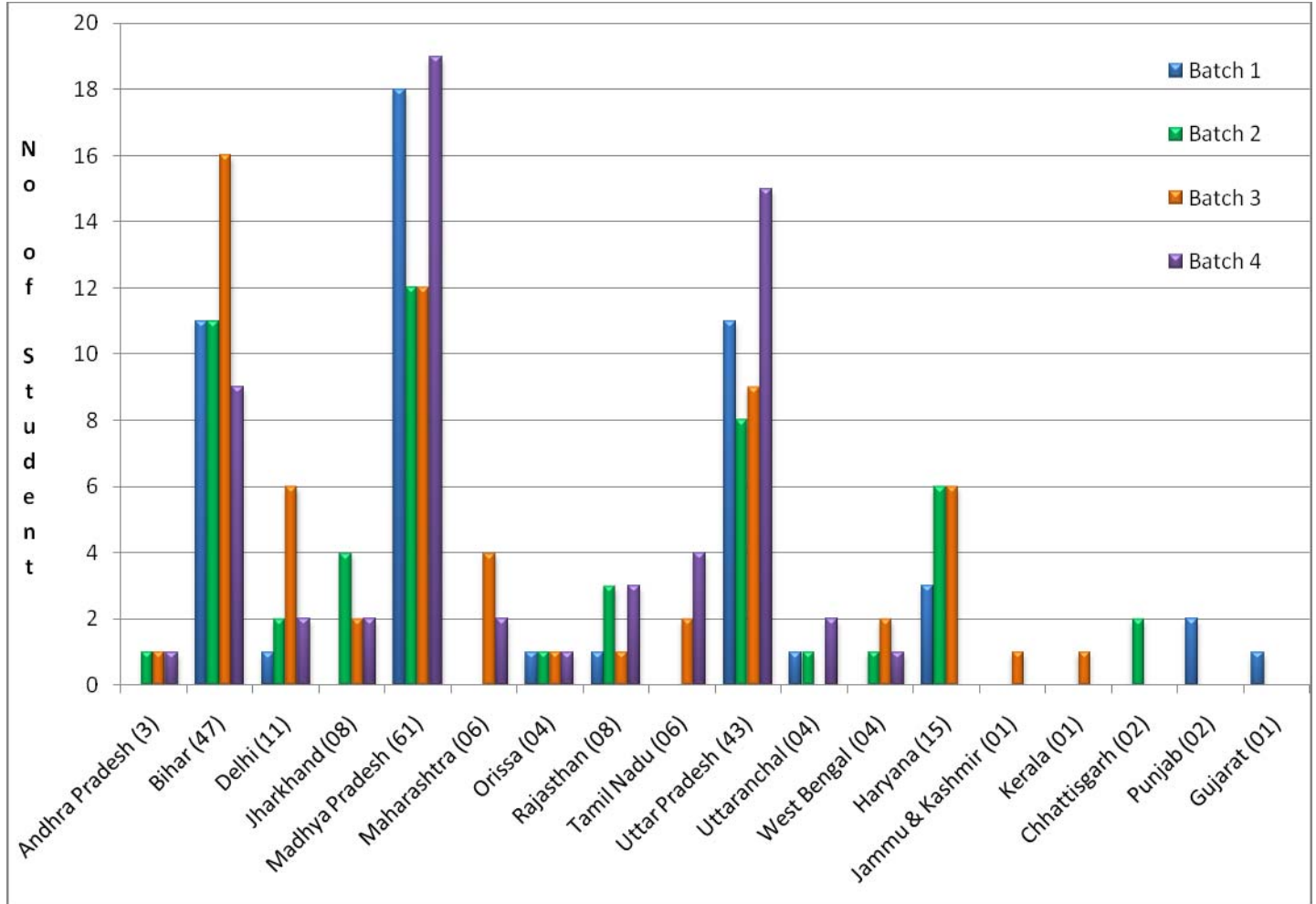
State	No. of Students	State	No. of Students
Andhra Pradesh	3	Bihar	47
Delhi	11	Jharkhand	8
Madhya Pradesh	61	Maharashtra	6
Orissa	4	Rajasthan	8
Tamil Nadu	6	Uttar Pradesh	43
Uttaranchal	4	West Bengal	4
Haryana	15	Jammu & Kashmir	1
Kerala	1	Chhattisgarh	2
Punjab	2	Gujarat	1
Total Number of Students - 227			

Students Statistics: *Category Wise*
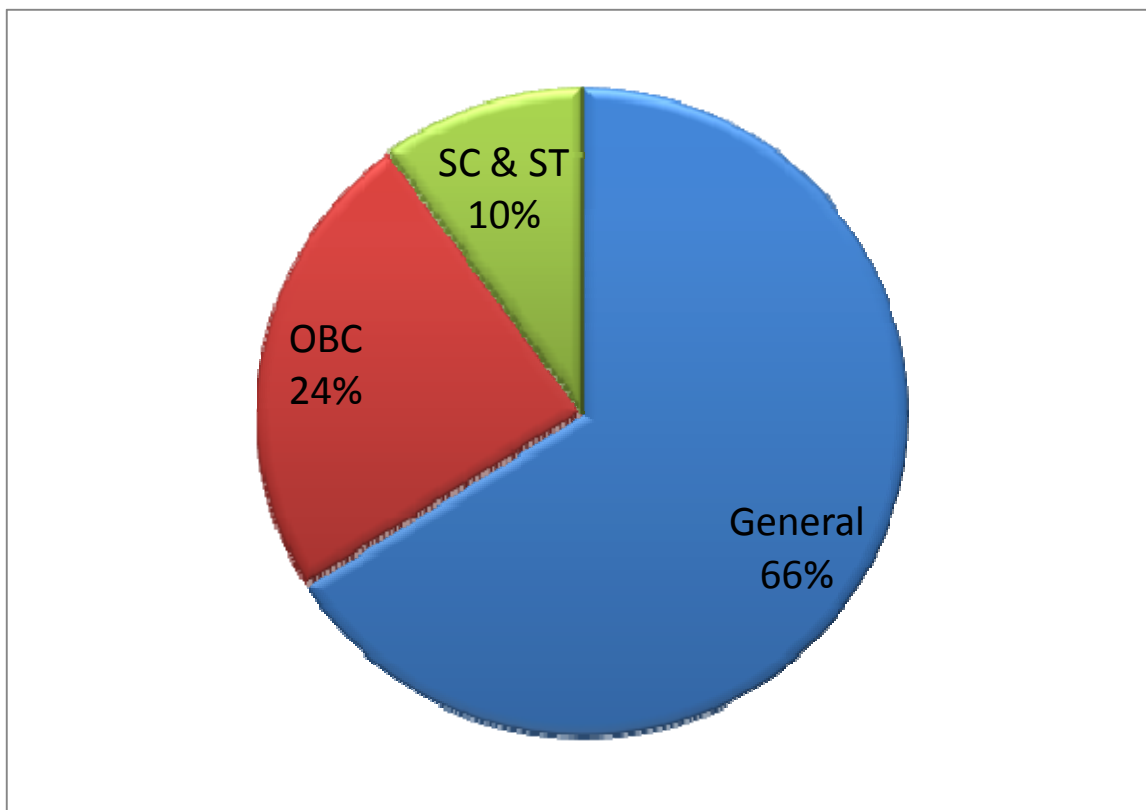
Batches	Category Wise Statistics			
	General	*OBC*	*SC & ST*	*Total*
Batch -1	35	10	5	50
Batch -2	36	9	7	52
Batch -3	45	15	4	64
Batch -4	34	20	7	61
Total	*150*	*54*	*23*	*227*

Students Statistics: *Gender Wise*
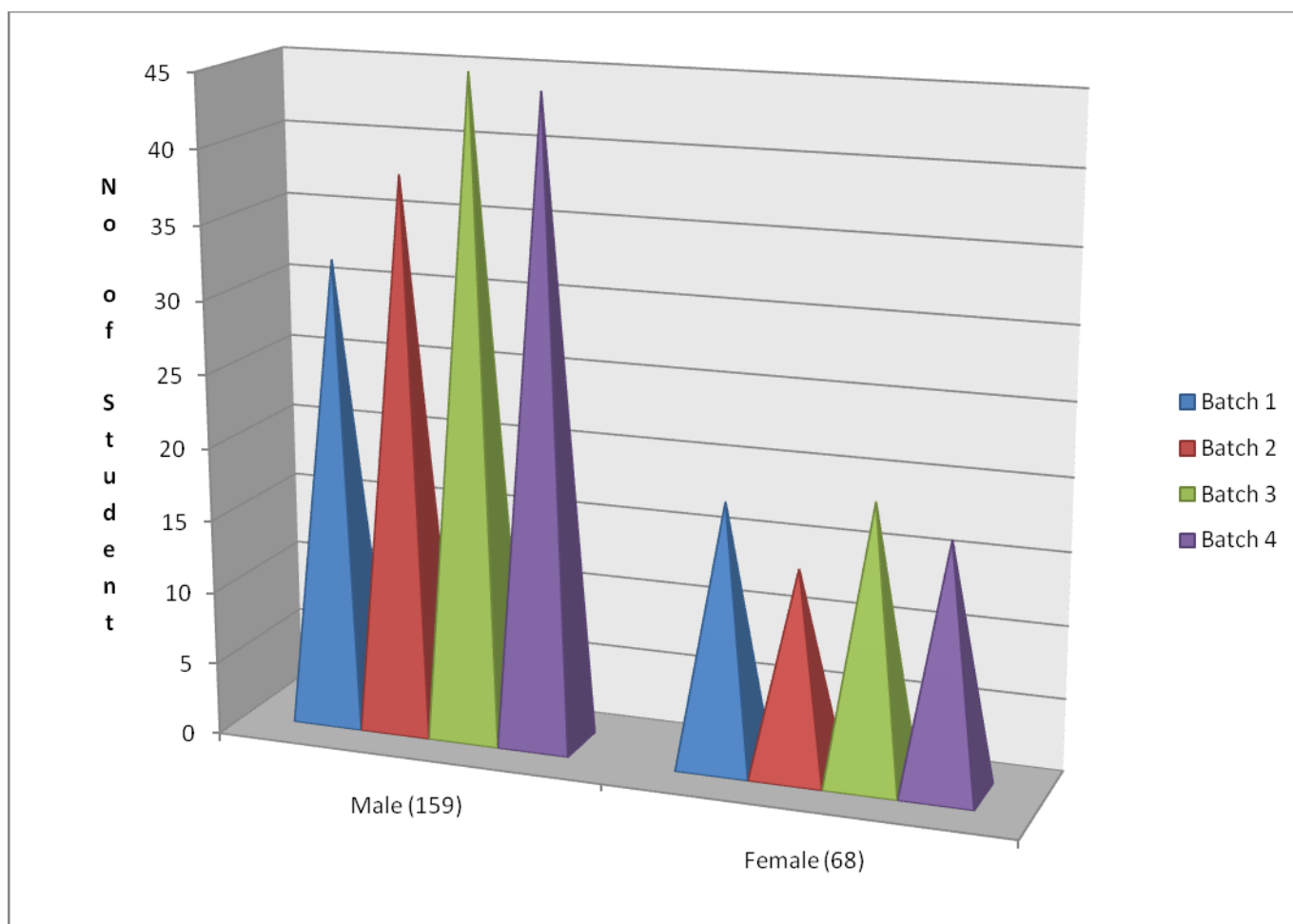
Batches	Gender Wise Statistics		
	Male	*Female*	*Total*
Batch -1	32	18	50
Batch -2	38	14	52
Batch -3	45	19	64
Batch -4	44	17	61
Total	*159*	*68*	*227*

Status of classes

Courses	Hours Completed			Hours Proposed
	Batch-1	Batch-2	Batch-3	Batch-4
Core-1	128	116	100	120
Core-2	134	120	120	80
Core-3	268	354	361	350
Core-4				60
Total Hrs.	530	590	581	610

Industries visited for Campus Placement in *Training For Professionals.*

- HCL TECHNOLOGIES LTD.
- PLANET E-COM SOLUTIONS PVT. LTD.
- GSPL.
- NIIT HQ.
- PATNI COMPUTERS.
- SEED INFOTECH LTD.
- WIPRO BPO PUNE.
- ZENSAR TECHNOLOGIES PUNE.
- VB HEALTH SERVICES.

Statistics of Campus Placement

Batch	Students Selected	Location
Batch-I	20	Gurgaon, Bangalore
Batch-II	11	Mumbai, Pune
Batch-III	10	New Delhi, Bhubaneswar, Kolkata
Batch-IV	04 (Upto 10th March)	Hyderabad, Gurgaon

Proposed Future Work Regarding Training Program

Development of *Advanced Training Center* capable of conducting, Part Time Short Term Courses on *Computer Software, Hardware* and *Networking* for the *Beginners* as well as for the *Advanced Professionals* of IT/ITES Sector.

Beginners of IT/ITES Sector:

- *Course on infrastructure development in Computer Hardware and Computer Networks.*

Advanced IT Professionals:

- Course on *Animation.*
- Course on *Mobile Gaming.*
- Course on Operating System *LINUX*
- Courses on *PHP* and *SAP.*

Indicative List of Visitors

TFP is fortunate to have a galaxy of visitors representing IT/ITES industry, academia and government. An input from these professionals and their feedback has helped in improving the content and format of the course.

Sr. No.	Name of the visitors	Date
1.	Mr. Devkant Agarwal, Head, IBM ,Academic Initiatives	September, 2008
2.	Mr. Sunil Dahiya, Head HR,NIIT Ltd., Delhi	September, 2008
3.	Dr. Ashok Kochhar, Professor, Aston University, UK	December, 2008
4.	Dr. Sitikantha Mishra, Director, IITTM,Gwalior	January, 2009
5.	Dr. S.J.S. Flora, Sr. Director, DRDE, Gwalior	January, 2009
6.	Prof. Y.P. Singh, Director, MITS, Gwalior	January, 2009
7.	Mr. G Rangrajan, Vice President, JK Tyres	July, 2009
8.	Mr. Rajdeep Sehrawat, Vice-President, NASSCOM	August, 2009
9.	Mr. A. K. Jain, Vice President, Wipro	August, 2009
10.	Dr. B.K. Murthy, Senior Director, DIT, New Delhi	September, 2009
11.	Prof. P. Gupta, IIT Kanpur	October, 2009
12.	Mr. Milind Deshpande, Associate Vice President, HCL	January, 2010
13.	Prof. S. Choudhry, IIT Delhi	February, 2010
14.	Prof. S.C. Gupta, IIT Delhi	February, 2010
15.	Prof. Ajit Kumar Verma, Director, IIIT Pune	February, 2010

Acknowledgements

----------*Thinking You*----------

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