

#### Course Structure

The tentative course structure is as under.

S.No	Core Topics	Duration
1.	Core 1	100 Hrs.
	1. Data Structures and Algorithms 2. Data base management system 3. Operating System 4. Software Engineering 5. Computer Network	
2.	Core 2	100 Hrs.
	1. Communication Skills and Personality Development 2. Management Skills 3. Employability Skills 4. Corporate Training	
3.	Core 3	220 Hrs.
	Programming C++, JAVA, J2EE, DOT NET, Linux and Open Source along with Lab Sessions	
4.	Special Lectures	
	Special sessions on Algorithms, Web Development, Solaris and Sun NetBeans	

#### State-of-the-art Laboratories of the Institute:-

- Generic Computing Labs
- Communication Systems Lab
- Computer Networking Lab
- Business Informatics Lab
- Communicative Skills Lab
- ICT Workshop Lab
- VLSI Design Lab
- Information Security Lab
- Human Centered Computing Lab

#### Learning Resource Center

The Learning Resource Center is equipped with reference library, reading room and digital library. The Institute is an active member of "Indian National Digital Library in Engineering Sciences and Technology" (INDEST) consortium. This provides a wide repository of knowledge through various journals and industrial databases. Most of faculty and students are members of professional societies, e.g. IEEE, IETE, CSI.



#### ABV-IIITM AT A GLANCE

- Unique blend of ict tools and Management concepts
- 160 acres of Green lush campus
- Seperate Hostels for Boys and Girls with single occupancy
- Emphasis on real life case studies, teamwork and Integration Skills
- Increasing Internships in Premier Institution Abroad
- Strategic Intraction with Industry
- Campus Wide Networking
- Growing International Research Cooperation in emerging areas
- Digital Library with subscription to all major on-line journals

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**ATAL BIHARI VAJPAYEE-  
INDIAN INSTITUTE OF  
INFORMATION TECHNOLOGY  
& MANAGEMENT, GWALIOR**  
(An Autonomous Institute of Government of India)

A  
DIT  
Sponsored Programme



TRAINING FOR PROFESSIONALS



## ABOUT THE INSTITUTE

ABV-IIITM, Gwalior is an apex autonomous Institute with the status of a deemed university established by the Govt. of India. It has a sprawling green campus of 160 acres. ABV-IIITM strives to become a world class Institution to contribute towards research & education and to produce technology & business leaders. The Institute encourages students to ignite their minds through various activities. The activities are also aimed at developing a culture of inquiry and promoting highly competitive academic environment, close student-faculty interaction and linkages with leading industry and academic institutions. There is research focus in education. The vibrant links with the industry are wide ranging; these include industry-oriented curricula design, development & delivery, summer internship projects, mentoring of students by CEOs and senior professionals etc. ABV-IIITM, Gwalior offers Post Graduate and Doctoral Programs in ICT and Management. The Institute promotes innovation and creativity. It nurtures new ideas with holistic perspective. Team projects are promoted for inculcating spirit to achieve organizational goals. The Institute has a vision for excellence through collaborative research in contemporary areas having relevance to application domains for promoting technology as a business model. Core research areas have been identified. Institute is strengthening collaboration with industry and universities abroad. Institute has strong laboratory infrastructure. It has highly competent faculty in the core areas of ICT and Management.

## Core Research Areas of the Institute:

### Mobile Computing

(Communication Systems, WAP, Wireless Networking, etc.)

### Networking & Information Security

(Distributed Networks, Sensor Networks, Information Security, Cryptography, etc.)

### Software Engineering

(SW Architecture, Algorithms, Graph Problems, Data Structures, Programming Languages, Operating Systems, Quality Management, etc.)

### Embedded Systems

(VLSI Design, Digital Systems Design, MEMs, NEMs, etc.)

### Human Centered Computing

(NLP, AI, HCL, Image Processing, Speech Technology, Computer Vision & Robotics, Semantic Web, W3C Standards, Localization, etc.)

### Knowledge Management

(Information Integration, DSS, SCM, ERP, PLM, PDM, IPR & Quality Management, Technology Business.

### About the programme:-

Ever since start Information Technology has grown at an alarming pace. 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 comes from. A good knowledge over these fields, coupled with an imposing personality can make any professional excel in his/her field. The condition in the Indian Context is quite depressing. Lack of knowledge leads to low 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 present needs. Even though 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. The faculties are highly short
- Lack of professional skills/life skills: People are unaware of team management skills, project management skills, etc.
- Currency of Technology: Syllabus is not appropriate. So people 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. It is determined to provide high quality training to about 50 professionals all around the country. 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 them updated about the latest developments in the community.

The key objectives of the programme are:

- Offering suitable candidates to IT 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

We have professional people working in these areas who would be giving valuable guidance to the participants. Lectures by our faculties and practicing executives from IT and ITES industry would ensure that the participants get the maximum knowledge of the fields. Hands-on exposure to the developing fields would be provided by lab sessions especially designed for the training.

**Dr. Anupam Shukla**  
**(Training Coordinator)**  
**(ABV-IIITM Gwalior)**