

The Institute has sent the offer of appointment to the post of Assistant Professor on contract basis for 3 more faculty positions.

IIITDM appraised the Committee that 10 to 12 subjects are taught every semester through visiting faculty. The visiting faculty completes teaching of one course in 5-7 days.

Before the implementation of 6th CPC, IIITDM, Jabalpur was following the norms and procedure for selection of teachers and the pay structure as applicable to IITs. The Ministry of HRD in pursuance to the implementation of 6th CPC conveyed (ref. No.F.23-1/2008TS-II dated 18th August, 2009) that the existing faculty of IIITs and ISMU, Dhanbad shall be given the replacement pay being proposed for IITs as personal to them. Revised pay, as given in para 2 of the above mentioned letter will be applicable for those recruited on or after the date of issue of these orders. With regard to faculty structure, the Ministry desired that the flexible faculty structure will continue in those institutions where it is already in operation. However, institutions like ISMU / IIITs which were earlier under the IIT pay structure will have the same faculty structure as in UGC scheme except for the accelerated promotions as provided under para 2 of above mentioned MHRD letter. The Ministry of Human Resource Development (MHRD) will devise suitable academic criteria for those institutions which may like to change over to a four-tier flexible faculty structure.

The Committee was informed that the institute alongwith other IIITs has made application for review of pay structure of the faculty, keeping in view the previous status of the pay (at par with IITs) and was expecting that the same would be reverted back to IIT status. Hence no appointments were made by the Institute in order to reduce the pay anomalies. Since the application is pending with the Ministry and considering the requirement of the faculty, the institute started the process of selection in may, 2011 again at entry level and three appointments have been made. Four more selection committees are scheduled to be held during June, 15-28, 2011.

There are 661 students (591 undergraduate + 56 postgraduate + 14 Ph.D. students) on rolls during the academic year 2010-11.

The overall faculty students ratio is 1:22.

The Committee was apprised that the New Pension Scheme is in vogue for teaching and non-teaching staff as the institute was established after 1.1.2004. There is no provision of CCS (Pension Rules) 1972 to attract talent for person who are already enjoying the Pension facilities in State / Central Government institutions and intend to join the Institute

B. Accreditation :

The PDPM-IIITDM, Jabalpur is yet to initiate the process of the accreditation through NAAC / NBA. The third batch of B.Tech. programme has graduated in May, 2011.

Thus the Institute has become eligible to apply for NBA accreditation.

C. Infrastructure :

The Institute has shifted to its permanent campus in June 2009. The development of the campus is in progress. One core lab Complex, a few lecture halls and two hostel buildings have been constructed. The Institute has engaged CPWD for construction of various structures. One Mess and dining hall building, security barracks and one more hostel building under construction. Further, CPWD, is already in advanced stage of finalization and award of the tenders for - Lecture Hall and Tutorial Complex, faculty and staff apartments, and Visitor Hostel.

As an interim measure, the Central Library of IIITDM is housed in one hall of the only available and functional building. The Library has developed and maintained its various services like computerized catalogue searching through OPAC interface, online issue / return facility as well as online access of e-resources etc through software (SOFTGRANTH).

The existing sports facilities on the campus of the Institute are limited. The sports related staff positions do not exist.

In order to provide the medical health care, the Institute has arranged the visiting consultants besides providing round the clock ambulance facilities on the campus. The Institute has made arrangements with local hospital for emergency requirements.

D. Detailed Project Report / Perspective Plan

The Institute could not produce a detailed project report indicating a comprehensive plan of development in terms of introduction of new programmes, increase in intake and development of infrastructure commensurate with the academic requirements.

E. Curriculum

Since, curriculum development is an ongoing process, Institute has revised the curricula of all the programs having interdisciplinary focus as reflected in their vision.

However, for B. Tech. (Mech. Engg.) appropriate corrections are necessary to include core content.

Specializations in M.Tech./ M.Des. programmes are not clearly defined. All courses being offered are as "*electives*". Detailed syllabi for the courses offered are not available

F. Research

PDPM Indian Institute of Information Technology has identified some of the niche areas of research, development and training to its students in the field of Design and Manufacturing with IT support. The Institute is having collaboration with Japan with six universities and six industry partners of Japan. The emerging areas in which the Institute faculty is collaborating in research with experts in Japan are (i) Mechatronics and mobile robotics (ii) nanotechnology and nondestructive testing for biomedical applications (iii) nanophotonics and plasmonics (iv) electromagnetic metamaterials and metatronics and (v) Biometric applications. The research publications of faculty in these fields are impressive.

G. Innovative practices

In order to bridge the gap between the theory and practice, the Institute has introduced from the session 2010-11, the concept of **Project Based Internship**. This internship is of 25 weeks duration where the student will work on a real life industry problem or a research problem. The objectives of the internship are noteworthy and will help the students learn how to apply whatever learnt in theory and to integrate theory with practice. This will also enable the students understand the functional behavior of corporate/industrial organizations. The idea is new and not many institutes in India are providing such type of opportunities to their students.

The Institute has established a worldwide consortium on design services. Through this consortium, they have launched a course on “**Artifact and service innovation with ubiquitous technologies**” for graduate/postgraduate students of five member universities /institutes across the world. Eminent experts from academia and industry delivered lectures to a group of 41 students who registered for the course. The course was run through video conferencing..

Suggestions of the UGC Expert Committee :

A. Non-Academic

- (i) The MoA / Rules may be revised as per UGC (Institutions Deemed to be Universities) Regulations, 2010.
- (ii) The institute as of now has constructed only one functional building and a few temporary workshops which house all the academic departments as well as the administrative offices. The pace of construction activities needs to be further accelerated and priority be given to lecture halls, laboratories, library, hostels.
- (iii) As the campus is located away from the city, appropriate sports and recreation facilities be provided alongwith suitable staff.

- (iv) The Institute may setup a permanent Health Centre on campus comprising necessary equipment, medicines, life saving drugs and appropriate medical staff.

B. Academic

(i) Faculty

The institute may recruit regular qualified faculty on urgent basis. As an interim measure the institute may appoint adjunct faculty / faculty on contract basis with M.Tech. qualifications in order to cope up with the teaching load.

The Institute may approach MHRD to get necessary approval for appointment of faculty who are already enjoying the pension facility in State / Central Govt. Institutions with continuation of pension benefits at IIITDM, Jabalpur.

The practice of inviting visiting faculty for short period of one week or two to cover entire course needs to be phased out at the earliest.

(ii) Curriculum

Undergraduate curricula should include minimum core topics specific to the discipline in which degree is awarded.

Postgraduate programs should be offered with certain specialization rather than generic titles. Each specialization needs to have 40-50% core courses and remaining electives.

For each of the UG/PG programs, course contents for each subject, reference books etc need to be finalized at the beginning of every academic year and should be made available to students / on institute website.

Objectives of each program should be clearly defined. The course contents should be in line with the objectives of the program.

For Ph.D. programme a course on research methodology should be made compulsory. UGC guidelines in this regard need to be implemented.

Appropriate methodology be specified for evaluation of semester wise progress of Ph.D. student.

(iii) Accreditation

The Institute shall take immediate steps for getting NAAC / NBA accreditation.

Recommendations of the UGC Expert Committee :

On the basis of the visit made to the Institute, observations with regard to availability of faculty, infrastructure in terms of buildings, laboratories, equipment, information furnished by the Institute and discussions with the Director and interaction with the faculty, non-teaching staff, students, the Committee recommends that the status of "Deemed-to-be-University" of Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design & Manufacturing (PDPM IIITDM), Jabalpur under *de-novo* category be continued. The functioning and performance of the PDPM-IIITDM may be reviewed annually by the UGC through an expert committee in accordance with its guidelines.

Observations and Suggestions of the AICTE Expert Committee

Land Sufficient land is available for further expansion, Entire land is rocky.

Building Progress on construction of building is slow, needs to be expedited. Required number of laboratories, classrooms and tutorial rooms should be provided for UG and PG programmes as per AICTE norms. Necessary approvals for constructed building need to be obtained.

Computers Sufficient computers are available.

Faculty Sanction for additional 23 faculty was received in August 2010 from MHRD. With increasing intake, requirement will keep on increasing. Institute needs to follow up with MHRD and get sanction for required number of faculty positions and fill the same to meet the norms of AICTE.

Library Library space needs to be increased. Reading room area needs to be increased with proper air cooling.

Other Facilities Facilities for sports and Gymnasium need to be improved.

Research and Development Activities Though state of art equipments are available, separate research labs need to be developed.

Recommendations of the AICTE Expert Committee

- Required number of laboratory, classrooms and tutorial rooms should be provided on priority basis for UG and PG programmes as per AICTE norms.
- Required number of faculty and faculty cadre ratio should be maintained as per AICTE norms.
- A DPR indicating plan development for 10-15 yrs. Period needs to be prepared immediately.

Advice of AICTE

In compliance to the directions of the MHRD letter F. 1-31/2006-TS-II dated 07.03.2007, the comments, observations and recommendations of the AICTE Committee are hereby forwarded to incorporate in the UGC Committee Report placed before the Commission, so that appropriate decision in the matter may be taken before making recommendations to the MHRD.

THE POINTS UNDER CONSIDERATION

- I. The Commission may consider the report of the UGC Expert Committee, Observations and Suggestions made by AICTE Expert Committee and advice of AICTE in respect of the review of the functioning of Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing (Deemed to be University), Jabalpur, Madhya Pradesh.
- II. The UGC Expert Committee has recommended continuation of Deemed to be University status of Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design & Manufacturing, Jabalpur under de-novo category. The Committee has suggested that the functioning and performance of the Institute may be reviewed annually by the UGC through an Expert Committee in accordance with its guidelines.
- III. Provision regarding Review of Deemed to be Universities (under de-novo category) in the UGC (Institutions Deemed to be Universities) Regulations, 2010

Article 9.4 The Central Government may, on the advice of the Commission, confirm the declaration of an institution deemed to be university made under the *de novo* category, by way of a notification, **after completion of five years** of the institution as such. The Commission shall render its advice for this purpose **on the basis of five successive annual performance reports of Expert Committee(s)** appointed by the Chairman of the Commission to review the institution concerned. If the Central Government comes to the conclusion that the institution does not qualify to be declared as an institution deemed to be university, it may inform such institution accordingly stating reasons there for.

- III. The UGC and AICTE Expert Committees have suggested that the Institute may appoint regular qualified faculty on urgent basis.

- IV. The AICTE Expert Committee has recommended that required number of laboratory, classrooms and tutorial rooms should be provided on priority basis for UG and PG programmes as per AICTE norms.
- V. A copy of the UGC and AICTE Expert Committee Report may be sent to the Deemed to be University to submit compliance in respect of the observations and suggestions given by these Committees.

PREVIOUS DECISION OF THE COMMISSION

The Commission has been considering the recommendations / suggestions of the Expert Committees in the past.

The matter is placed before the Commission for consideration.

No.F. 6-2/2006 (CPP-I)

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(Annexures of the report will be placed on the table)

UNIVERSITY GRANTS COMMISSION
BAHADUR SHAH ZAFAR MARG
NEW DELHI - 110002

REPORT OF THE REVIEW COMMITTEE WHICH VISITED PANDIT DWARKA PRASAD MISHRA INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN & MANUFACTURING (PDPM IITDM), DEEMED TO BE UNIVERSITY, ON 6TH - 8TH JUNE, 2011 TO REVIEW THE FUNCTIONING AND PERFORMANCE OF THE DEEMED TO BE UNIVERSITY.

I. Introduction

Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design & Manufacturing (PDPM IITDM) Jabalpur was established in the year 2005 at Jabalpur, Madhya Pradesh by the Ministry of Human Resource Development, Department of Higher Education in the year 2005. The Institute was started under the Indian Societies Registration Act. The Society was registered on January 24, 2005 with the Registrar of Societies at Jabalpur under Madhya Pradesh Societies Registration Act 1973.

The Institute was set up to meet the requirements of education at national level in the fields of Information Technology (IT), Design & Manufacturing (D & M). The motto of the Institute is to promote excellence in the desired areas of specialization to facilitate the competitive advantage of Indian products and manufacturing in global markets.

The Institute was given the status of "deemed-to-be-university" under the *de-novo* category provisionally for a period of 5 years vide MHRD notification No.F.9-5/2006.U.III (A) dated 24th June, 2009 subject to annual review by the expert committee of UGC.

The Chairman, UGC constituted a Committee to review functioning and performance of the deemed to be university and submit its report.

II. Background of the Institution

a) Brief Historical Background: Year of Establishment - 2005

Globalization has created uniformity in customer expectations world over. With the opening up of Indian economy, our manufacturing sector has to compete globally even for the domestic market. This requires strong products with leading technology/quality and compelling cost advantage. Suitably trained manpower is critical to achieve this goal. Large pool of highly trained manpower has provided India leadership position in knowledge-based industries. Efforts are now required to translate this leadership in building indigenous manufacturing capabilities. Whereas, China is already a leader in low-tech bulk manufacturing, India could emerge as leader in brain-intensive manufacturing. This would require skill sets appropriate for design, development and prototyping that too - using modern tools and techniques.

The present system of technical education - though huge and diverse has focus on analytical capabilities. There is need for skill sets appropriate for design, development and prototyping, that too - using modern tools and techniques. Product Lifecycle Management (PLM) approach to entire cycle from R & D, manufacturing, quality assurance, distribution, maintenance and disposal of new products is gaining currency. In other words, there is a need for a design and manufacturing programme that is holistic in nature. It should include all aspects such as mechanical, electrical/electronics as well as software engineering. In due course of time, disciplines such as chemical engineering and bioengineering could also be integrated with such an approach.

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Keeping the above in view, the Ministry of Human Resource Development, Department of Education felt the need to set up a national institute devoted exclusively for Information Technology (IT), Design & Manufacturing (D & M). It was envisaged that such an academic institute would promote excellence in the desired areas of specialization and would facilitate and promote the competitive advantage of Indian products and manufacturing in global markets.

Accordingly, Government of India established Pundit Dwarka Prasad Mishra Indian Institute of Information Technology, Design & Manufacturing [PDPM IIITDM] at Jabalpur, Madhya Pradesh. The Institute was started under the Indian Societies Registration Act. The Society was registered on January 24, 2005 with the Registrar of Societies at Jabalpur under Madhya Pradesh Societies Registration Act 1973.

The foundation stone of the new Institute was laid by Shri Arjun Singh, the then Minister of Human Resource Development (MHRD) on February 7, 2005. It was decided to start the academic session of PDPM IIITDM Jabalpur from July – August, 2005. It was also conceived that the Institute would initially operate from the temporary location at the IT Bhawan of the Jabalpur Engineering College at Ranjhi, Jabalpur. In order to manage the affairs of the new Institute, Prof Sanjay G Dhande, Director, IIT Kanpur was given the additional charge as the Director of the Institute. Indian Institute of Technology, Kanpur was asked to help the Institute in its incubation.

Simultaneously, the efforts were on to find out a suitable piece of land where the campus of the new Institute could be built. Thus, a piece of land of ~ 250 acres, near the Dumna Airport of Jabalpur was identified and was handed over to the Institute by the Government of Madhya Pradesh on May 03, 2006. The construction work of Phase I buildings was started in 2006 after planning and designing. Presently, the Institute is operating from its own campus at Dumna Airport road, Jabalpur. First few buildings have come up and others are coming up soon.

In July-August 2005, the Institute began its academic work with the admission of its BTech (undergraduate) students in disciplines of (1) Computer Science & Engineering, (2) Electronics & Communication Engineering and (3) Mechanical Engineering. Subsequently, the Institute started its Masters and Ph.D. Programme in the above three disciplines from the years 2006 and 2007 respectively. Apart from this a Master of Design programme in line with those running at IIT Bombay, IISc Bangalore, IIT Kanpur, IIT Delhi, and IIT Guwahati was also started from the year 2008. The Institute has decided to start a Ph.D. programme in Design and Masters (M.Tech.) programme in Mechatronics from the academic year 2011-12.

b) Aims and Objectives: The aims and objectives of the PDPM IIITDM Jabalpur are summarized below:

- To provide education and training, at both undergraduate as well as postgraduate levels, to persons of outstanding abilities who would provide leadership to Indian industry in globally competitive economic environment.
- To carry out advanced research and development activities in IT enabled design and manufacturing technologies, both on its own and on sponsorship basis for the industry.
- To organize conferences, seminars, workshops and such other activities for the dissemination of knowledge to industry.

c) Academic Programmes: The Institute started with the following undergraduate programmes in the year 2005.

Bachelor of Technology (B.Tech.) in

- Computer Science & Engineering,
- Electronics & Communication Engineering,
- Mechanical Engineering

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From the year 2006, following post graduate programmes were also started.

Master of Technology (M.Tech.) in

- Computer Science & Engineering
- Electronics & Communication Engineering
- Mechanical Engineering

Subsequently, Ph.D. programme was also started in the year 2008 in all the above three disciplines. Apart from this, keeping in view the vision of the Institute, a Master of Design (M.Des.) programme was also started in August 2008. The programme is in line with those already running in established Institutes such as IIT Bombay, Kanpur, Guwahati and IISc Bangalore. From the academic session 2011-12, a Ph.D. programme in Design and M.Tech. (Mechatronics) is also introduced.

d) Japan Collaboration

During the visit of the Honourable Prime Minister of India to Tokyo in December 2006, an agreement for the joint India-Japan collaboration for the development of IIITDM Jabalpur was signed between the two sides by Dr. Manmohan Singh, the Honourable Prime Minister of India and Mr. Junichiro Koizumi, the Honourable Prime Minister of Japan for a '*Global partnership for the development of the Institute in the areas of IT, Design and Manufacturing*'. The agreement covers exchange of faculty and students and aims to jointly develop teaching and research activities of mutual interest. The Govt. of Japan has also constituted a consortium of 12 partners for development and nurturing of the Institute.

These partners include six members from Universities of Japan and six members from Japanese industries. Members include:

- (1) University of Tokyo
- (2) Tokyo Institute of Technology
- (3) Tohoku University
- (4) Kyushu University
- (5) Kanagawa Institute of Technology
- (6) Shibaura Institute of Technology
- (7) M/s Hitachi Ltd
- (8) M/s Toshiba Ltd
- (9) M/s Sumitomo Metals Ltd
- (10) M/s GE (Energy) Japan
- (11) M/s Amada Ltd
- (12) M/s Okuma Ltd

Apart from this, following four eminent academicians from Japan have been made coordinators of the programme.

- **Prof M Kiuchi** (Emeritus Professor at the University of Tokyo)
- **Prof Yoshimi Ito** (Emeritus Professor at the Tokyo Institute of Technology),
- **Prof Takashi Nanya** (Professor at the University of Tokyo)
- **Dr. H. Suzuki** (Scientist at GE Energy, Japan)

Japanese professors and experts from industries visit the Institute to deliver lectures on state of the art technologies and also participate in the Institute's teaching programme. Besides, several of our faculty members and students also visit Japanese Universities and industries and get themselves exposed to and acquainted with the cutting edge technologies along with education and training system in Japan. In the current academic session, twelve students went for Japan visit out of which

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seven successfully completed summer internships in Japanese industries such as Amada, Sumitomo Metals, Hitachi, Toshiba etc.

e) Research and Development:

Thrust Areas of the Institute:

With a view to promote inter-disciplinary and cross-disciplinary research and development activities, following research groups have been constituted with faculty members from across the disciplines.

- Innovative Design and Manufacturing
- Graphics, Vision and Image Processing
- Advanced Manufacturing
- Data and Knowledge Engineering
- Electronics & Communication Innovative Design

III.

Composition of the Expert Committee

(Name & Designation, Address, Phone No., e-mail)

1. Professor S.P. Ojha Chairman
(Former VC, CCS University)
Flat No.2 Dharamjit Nagar Colony
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3. Prof. S.K. Bhargava Member
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* could not attend the meeting.

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5. Prof. V.M. Topkar
Head of Department, Civil
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Nominee of AICTE

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Member Secretary

Members of the AICTE Committee:

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- Chairman of the AICTE Committee
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4. Mr. Rajesh Chadar,
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IV. Date of the visit of the Expert Committee:

June 06-08, 2011

The Expert Committee visited the deemed to be university on 6th – 8th June, 2011. On the first day, the Committee met to discuss issues/ strategies among themselves before commencement of the visit to the University. Prof. S.P. Ojha, Chairman of the Committee and Shri M.S. Yadav, Member Secretary of the Committee welcomed the members and briefed them about the purpose of the visit and the terms of reference of the Committee. The Committee was also informed about the observations,

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suggestions and recommendations of the earlier Expert Committee which visited the deemed to be University in the year 2008.

Prof. Ojha, the Chairman of the Committee also requested the members to give specific observations and suggestions on availability of qualified faculty, infrastructure, accreditation status and compliance in respect of the observations, suggestions and recommendations of the earlier committees.

On behalf of the deemed to be university, Director, Prof. Aparajita Ojha, Registrar and the Dean received the committee members alongwith other functionaries and faculty members. After brief introduction of the committee members as well as faculty members present, Director made a detailed presentation about the deemed to be university and its programmes and activities. The Director, Dean and functionaries of deemed to be university replied to various queries raised by the members of the Committee. Thereafter, the committee visited various departments, Labs., Central Library, Hostels etc.

The Expert Committee had detailed discussion with the Director, Dean & Registrar of the Deemed University, Faculty, Non-teaching staff and students. The inspection report based on the discussions, visit to the campus and scrutiny of various documents / information provided by the institute authorities is as follows:

V. Inspection Report

1. Name and address of the Deemed to be University:

Pandit Dwarka Prasad Mishra Indian Institute of
Information Technology, Design and Manufacturing Jabalpur
Dumna Airport Road
P.O. Khamaria
Jabalpur (M.P.) 482005

2. Headquarters of the Deemed to be University (With full address, Phone Nos., e-mail etc.)

Address:

Pandit Dwarka Prasad Mishra Indian Institute of Information
Technology, Design and Manufacturing Jabalpur
Dumna Airport Road
P.O. Khamaria
Jabalpur (M.P.) 482005

Contact Details:

Director 0761-2632615 (O) 0761-2632094(Fax)
Email : director@iiitdmj.ac.in

Registrar 0761-2362069 (O) 0761-2632049(Fax)
Email : registrar@iiitdmj.ac.in

3. Name of the Society/Trust promoting the Deemed University-

Pandit Dwarka Prasad Mishra Indian Institute of Information Technology, Design and Manufacturing,
Jabalpur

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- Whether Deemed University itself is registered as a Society/Trust
(Please attach a copy of the Society Registration Certificate / Trust Deed)-
Yes (Annexure I)
- Whether all the moveable and immoveable assets are registered in the name of the deemed to be university
(Please attach registered documents)- **Yes (Annexure II)**
- Whether MOA/Rules approved and as per UGC Regulations
(Please attach a copy of the MoA / Rules) **Yes (Annexure III)**
- Whether Corpus fund maintained as per UGC Regulations
(Please attach copy of FDR as corpus fund)
The corpus fund has not been created as the Institute is still getting Plan grants only and the savings, if any, are carried forward to the next financial year.

4. No. and date of Notification as Deemed to be University-

F.95/2006-U 3(A) Dated- June 24, 2009. **(Annexure IV)**

5. Objectives of the Deemed University as laid down in MOA-

- (a) To provide for education and training in such branches of learning as it may deem fit.
- (b) To provide for research, consultancy and advancement of and dissemination of knowledge.
- (c) To undertake extra mural studies, extension programmes and field outreach activities to contribute to the development of society.
- (d) To do all such other acts and things as may be necessary or desirable to further the objects of the Institute.
- (e) To promote the cause of Information Technology (IT), Design & Manufacturing education and research in an integrated manner.

6. Thrust Areas of the Deemed University-

The thrust areas of the Institute, with research areas under in each thrust are as follows:

[1] Innovative Design and Manufacturing

- (a) Embedded System Design
- (b) CAD/CAM
- (c) Design of Smart Structures
- (d) MEMS
- (e) Intelligent Product Design
- (f) Design of Energy Systems

[2] Graphics, Vision and Image Processing

- (a) Computer Graphics
- (b) Image Processing
- (c) Geometric Modelling
- (d) Computer Vision
- (e) Pattern Recognition
- (f) Biometrics
- (g) Simulation
- (h) Computer Animation

[3] Advanced Manufacturing

- (a) Rapid Prototyping
- (b) Micro Nano Fabrication
- (c) Manufacturing Culture

[4] Data and Knowledge Engineering

- (a) Computational Linguistics
- (b) Data Engineering
- (c) Natural Language Processing
- (d) Artificial Intelligence
- (e) Parallel Algorithms
- (f) Human Computer Interaction
- (g) Software Engineering

[5] Electronics & Communication Innovative Design

- (a) High Frequency Electronics Design
- (b) Nanophotonics
- (c) Optoelectronics and Optical communication
- (d) VLSI Design & Testing
- (e) Antenna Analysis Design & Fabrication
- (f) Microwave Communication & MMIC Design
- (g) RF and Optical MEMS
- (h) Multidimensional Signal Processing
- (i) Design of Control Systems
- (j) Sensor and Actuators

7. Mission and Vision of the Deemed University-

The following is the Vision, Mission and Values of PDPM IITDM Jabalpur.

Vision

The Indian Institute of Information Technology, Design and Manufacturing (IIITDM) Jabalpur shall be a Global Center of Excellence in engineering education and research by building itself as an Enterprise of Knowledge wherein the academic community including students, shaped with the unique creativity based on fundamental strong multidisciplinary academic skills, the capacity for a bold innovative thinking involving positive change and an integrity of character, grounded in an active and resolutely pioneering spirit, shall be indulged in meaningful innovations based on a knowledge-based engineering approach.

Mission

The Mission of the Institute is to create a multidisciplinary academic environment to prepare and train manpower of excellence for nurturing and promoting knowledge-based activities and innovations in design, fabrication and manufacturing of products by bringing together a collaborative and mutually stimulating mix of different fields of science, engineering and arts. In doing so the Institute shall identify current and future agendas for scholarship, share knowledge and discoveries with the world community and actively cultivate individuals with the desire and capability to contribute to society.

Values

In planning for its future as well as for conducting its ongoing activities, the Institute seeks to act in a manner that is guided by a deep-rooted sense of shared values and aspirations. Built upon such a foundation, the Institute:

- i) Honours and rewards high performance in learning, teaching, scholarship, research and creative activities by encouraging intellectual curiosity and protecting the multiple expressions of academic freedom.

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ii) Seeks to provide an environment conducive to imaginative innovation, experimentation and creativity by encouraging all members of the academic community to take intellectual and creative risks and to embrace changes that will enhance the fulfillment of the Institute's mission.

iii) Aspires to build an environment of tolerance and reasoned debate without any gender-, cast-, religious- or regional- bias by affirming the worth and personal dignity of every member of the Institute community and contributing to a campus climate of civility.

8. **Whether the status of Deemed University was under de-novo category?** if yes, courses run in the emerging areas at present and at the time of declaration as deemed to be university-

Yes, the status of the Institute was under de-novo category.

The Institute runs Bachelor of Technology (B.Tech.), Master of Technology (M.Tech.) and Doctor of Philosophy (Ph.D.) in the disciplines of

- Computer Science & Engineering,
- Electronics & Communication Engineering,
- Mechanical Engineering

Apart from this, keeping in view the main theme of the Institute, the Institute also runs a post graduate programme in Design, named

- Master of Design (M.Des.)

From the academic session 2011-12, a Ph.D. programme in **Design** and **M.Tech. (Mechatronics)** is also introduced.

The academic curriculum of the Institute focuses very strongly on hands on experience, interdisciplinary education and project based learning. Its agenda is to produce graduates who are not only technically competent but also possess other skills like capability to learn through experience, critical thinking, practical aptitude and ability to synthesize the solution.

The UG curriculum brief is given vide **Annexure V**.

For detailed courses of study, please see **Annexure-XV**

9. **Whether accredited by NAAC and NBA, if yes, rating (pl. attach copies) if not, steps taken by the deemed university for accreditation.**

The third batch of B.Tech. programme has graduated in May 2011. The Institute has become eligible to apply for NBA accreditation. The Institute plans to apply for the NBA accreditation in December 2011 / January 2012.

For NAAC accreditation, the deemed to be university has yet to initiate the process.

10. **Whether the Deemed University is conforming to the relevant regulations / norms of the UGC and other statutory bodies concerned regarding minimum standard of instructions. Please provide details.**

Yes. The Institute has been following the standards of instructions as practiced in IITs. The semester system has been adopted in the Institute. Duration of Semester I is August – November and Semester II is January – April every year. The academic calendar is announced well in advance for each year and is strictly followed in the Institute.

Each instructor in charge maintains a course file that contains the complete information about the course and the file is submitted at the academic office towards the end of the semester. The file contains the following components – (i) Course outline and contents (ii) grading pattern (ii) copies of question papers of quizzes, tests, assignment, end semester, mid

semester (iii) lecture notes/slides etc. This helps in keeping a record of level of standards followed by the faculty of the Institute.

Each 4 credit course requires 42 lectures, 2 credit lab course requires nearly 36 hours of lab sessions and other course instruction follows similar lines. There is continuous evaluation of the student in a course by the instructor in-charge. Grading is awarded based on performance of student in quizzes, assignments, tutorials, projects, lab work, mid semester and end semester examination. Course instructor announces the breakup of marks for each component at the beginning of the course.

11. Whether the Deemed University is conforming to the relevant regulations / norms of the UGC and other statutory bodies concerned regarding qualification of teachers.

Yes. Every faculty member on permanent role is Ph.D. in relevant discipline. Out of 29 faculty members who are serving presently in the Institute, 27 are Ph.D.s in their respective discipline and 2 are pursuing Ph.D. (one from IIT Kanpur and the other from IIT Bombay). Further, the Institute has offered faculty positions to 3 faculty members, out of whom two are PhDs from IITs and the third is going to submit his thesis shortly at IIT Guwahati. Details of qualification and experience of faculty and academic staff later against Item 16. Selection of faculty is done by a properly constituted selection committee whose members are decided as per the requirements outlined by MHRD/UGC/AICTE.

12. Whether the Deemed University is conducting merit based admission of student on an all India level test. If yes, provide details of the entrance test.

B. Tech. Programme -

Through AIEEE - Admissions to the B.Tech. Programme are made once a year in July through All India Engineering Entrance Examination (AIEEE) conducted by Central Board of Secondary Education. The minimum academic qualification for admission is a pass in the final examination of 10+2 system or its equivalent with Physics and Mathematics as compulsory subjects and any one among Chemistry, Bio-technology, Computer Science and Biology as optional subjects. The procedures and other requirements for admission are specified in the AIEEE Information Brochure.

M. Tech. /M. Des. Programme -

Admissions to the M.Tech. Programmes are held every year in July and November. Admissions in all postgraduate programmes are recommended by the duly constituted Selection Committees. The selection committees is appointed by Coordinator, Academic Affairs in consultation with Post Graduate Committee of Senate (PGCS) and approved by Chairman, Senate. Qualified GATE/CEED score is the basic requirement for admission under Regular category. Shortlisted candidates are called for the written test and interviews and based on the performance of candidate in the written test and interview, the selection Committee submits its recommendation to PGCS. Recommendations of the Selection Committees are finally approved by Chairman Senate. Applications of those students who have obtained their qualifying degree from any Indian Institute of Technology (IIT) or Indian Institute of Information Technology (IIITs) and have obtained a CPI > 8.0 may be considered without the GATE score.

Ph. D. Programme -

Applicants to the Doctoral programme may apply for admission on prescribed form any time throughout the year. On receipt of sufficient number of applications, the Post Graduate Committee of Senate (PGCS) will conduct the admission process, similar to that of M.Tech/M.Des. The selection process of the shortlisted candidates include presentation by

the candidate (on the topic of their choice, preferably on their masters' thesis work) followed by interaction/ interview with the committee.

Entrance / aptitude test as required by UGC guidelines needs to be conducted.

Reservations - Reservations for Scheduled Caste (SC), Scheduled Tribe (ST), Other Backward Classes (OBC) and Physically Handicapped (PH) candidates are as per the Government of India existing rules. Admissions to the reserved category candidates shall be recommended without comparing them with the candidates of the unreserved category.

13. Fee Structure and its basis-

DETAILS OF THE FEE TO BE PAID BY B.TECH 2008 batch STUDENTS FOR SESSION 2011-12 (AT THE TIME OF REGISTRATION)

A. ONE TIME PAYMENT AT THE TIME OF ADMISSION

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	ADMISSION FEE	150.00	150.00
2	GRADE CARD	150.00	150.00
3	PROVISIONAL CERTIFICATE	100.00	100.00
4	MEDICAL EXAMINATION	100.00	100.00
5	STUDENTS WELFARE FUND	1,500.00	1,500.00
6	MODERNIZATION	300.00	300.00
7	HOSTEL ADMISSION	500.00	-
8	ALUMNI ASSOCIATION SUBS	500.00	500.00
9	PUBLICATION	250.00	250.00
10	CAREER DEVELOP PROGRAMMES	500.00	500.00
TOTAL		4,050.00	3,550.00

B. DEPOSITS PAYABLE AT THE TIME OF ADMISSION

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	INSTITUTE CAUTION MONEY (REFUNDABLE)	5,000.00	5,000.00
2	MESS CAUTION MONEY (ADJUSTABLE)	3,000.00	-
TOTAL		8,000.00	5,000.00

C. SEMESTER FEE

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
C.I Academic Fee			
1	Tuition Fee (Not for SC/ST students)*	15,000.00	15,000.00
2	Laboratory Contingency	500.00	500.00
3	Examination Fee	350.00	350.00
4	Registration Fee	200.00	200.00
Academic Fee Total		16,050.00	16,050.00
C.II Medical Fee			
1	Statutory Medical Fee	50.00	50.00
2	Personal Accident Insurance Charge	65.00	65.00
3	Membership of SHMC	200.00	200.00
Medical Fee Total		315.00	315.00
C.III Hostel Fee***			
1	Hostel Seat Rent**	800.00	-
2	Fan/Electricity/Water Charges	1,200.00	-
3	Hall Establishment Charge	2,500.00	-
4	Mess Advance (To be paid at the time of Registration & adjustable as per actual)	10,000.00	-
Hostel Fee Total		14,500.00	0.00

C.IV Fee for Gymkhana Activities			
1	Gymkhana Membership Charge	150.00	150.00
2	Students Amenities Charge	500.00	500.00
3	Festival Fee	100.00	100.00
	Fee for Gymkhana Activities Total	750.00	750.00
C.V Fee for Students Welfare Activities			
1	Student Placement & Training	500.00	500.00
	Student Placement & Training Total	500.00	500.00
	Total	32,115.00	17,615.00

- * ALL SC/ST STUDENTS ARE EXEMPTED FROM PAYMENT OF TUITION FEE
- ** SC/ST STUDENTS ARE NOT CHARGED HOSTEL SEAT RENT IF PARENTS'/GUARDIANS' ANNUAL INCOME IS LESS THAN RS. 2,00,000/-
- *** Wave up for the students registered for external PBI (Not staying Hostel)
- # Fees given in sections A and B already paid by the students at the time of admission

SUMMARY OF AMOUNT PAYABLE BY DIFFERENT CATEGORY STUDENTS AS INSTITUTE DUES

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	GENERAL CATEGORY STUDENTS	44,165.00	26,165.00
2	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS GREATER THAN RS. 2,00,000/-)	29,165.00	11,165.00
3	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS LESS THAN RS. 2,00,000/-)	28,365.00	11,165.00

**DETAILS OF THE FEE TO BE PAID BY B.TECH STUDENTS (2009,2010 and 2011 Batches) FOR SESSION 2011-12
AT THE TIME OF REGISTRATION**

A. ONE TIME PAYMENT AT THE TIME OF ADMISSION #

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	ADMISSION FEE	150.00	150.00
2	GRADE CARD	150.00	150.00
3	PROVISIONAL CERTIFICATE	100.00	100.00
4	MEDICAL EXAMINATION	100.00	100.00
5	STUDENTS WELFARE FUND	1,500.00	1,500.00
6	MODERNIZATION	300.00	300.00
7	HOSTEL ADMISSION	500.00	-
8	ALUMNI ASSOCIATION SUBS	750.00	750.00
9	PUBLICATION	250.00	250.00
10	CAREER DEVELOP PROGRAMMES	500.00	500.00
	TOTAL	4,300.00	3,800.00

B. DEPOSITS PAYABLE AT THE TIME OF ADMISSION #

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	INSTITUTE CAUTION MONEY (REFUNDABLE)	4,000.00	4,000.00

2	MESS CAUTION MONEY (ADJUSTABLE)	3,000.00	-
	TOTAL	7,000.00	4,000.00

C. SEMESTER FEE

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
C.I Academic Fee			
1	Tuition Fee (Not for SC/ST students)*	15,000.00	15,000.00
2	Laboratory Contingency	500.00	500.00
3	Examination Fee	350.00	350.00
4	Registration Fee	200.00	200.00
5	Academic Fee Total	16,050.00	16,050.00
C.II Medical Fee			
1	Statutory Medical Fee	50.00	50.00
2	Personal Accident Insurance Charge	100.00	100.00
3	Membership of SHMC	200.00	200.00
2	Medical Fee Total	350.00	350.00
C.III Hostel Fee			
1	Hostel Seat Rent**	1,000.00	-
2	Fan/Electricity/Water Charges	1,200.00	-
3	Hall Establishment Charge	2,000.00	-
4	Mess Advance (To be paid at the time of Registration & adjustable as per actual)	8,000.00	-
3	Hostel Fee Total	12,200.00	0.00
C.IV Fee for Gymkhana Activities			
1	Gymkhana Membership Charge	150.00	150.00
2	Students Amenities Charge	500.00	500.00
3	Festival Fee	200.00	200.00
4	Fee for Gymkhana Activities Total	850.00	850.00
C.V Fee for Students Welfare Activities			
1	Student Placement & Training	500.00	500.00
5	Student Placement & Training Total	500.00	500.00
	Total (C 1 to C 5)	29,950.00	17,750.00

*

ALL SC/ST STUDENTS ARE EXEMPTED FROM PAYMENT OF TUITION FEE

**

SC/ST STUDENTS ARE NOT CHARGED HOSTEL SEAT RENT IF PARENTS'/GUARDIANS' ANNUAL INCOME IS LESS THAN RS. 2,00,000/-

Fees given in sections A and B already paid by the 2009 and 2010 batches

#

students at the time of admission**SUMMARY OF AMOUNT PAYABLE BY DIFFERENT CATEGORY STUDENTS AS INSTITUTE DUES**

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	GENERAL / OBC CATEGORY STUDENTS	41,250.00	25,550.00
2	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS GREATER THAN RS. 2,00,000/-)	26,250.00	10,550.00
3	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS LESS THAN RS. 2,00,000/-)	25,250.00	10,550.00






**DETAILS OF THE FEE TO BE PAID BY M.TECH / M.DES. STUDENTS FOR SESSION 2010-11
AT THE TIME OF REGISTRATION**

A. ONE TIME PAYMENT AT THE TIME OF ADMISSION		2010-11	2010-11
S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	ADMISSION FEE	150.00	150.00
2	GRADE CARD	150.00	150.00
3	PROVISIONAL CERTIFICATE	100.00	100.00
4	MEDICAL EXAMINATION	100.00	100.00
5	STUDENTS WELFARE FUND	1,000.00	1,000.00
6	MODERNIZATION	500.00	500.00
7	HOSTEL ADMISSION	500.00	-
8	ALUMNI ASSOCIATION SUBS	750.00	750.00
9	PUBLICATION	250.00	250.00
10	CAREER DEVELOP PROGRAMMES	500.00	500.00
	TOTAL	4,000.00	3,500.00
B. DEPOSITS PAYABLE AT THE TIME OF ADMISSION		2010-11	2010-11
S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	INSTITUTE CAUTION MONEY (REFUNDABLE)	4000	4,000.00
2	MESS ADVANCE (ADJUSTABLE)	3000	-
	TOTAL	7,000.00	4,000.00
C. SEMESTER FEE		2010-11	2010-11
S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
C.I ACADEMIC FEE			
1	Tution Fee (NOT FOR SC/ST STUDENTS)*	2500	2500
2	Laboratory Contingency	500	500
3	Examination Fee	300	300
4	Registration Fee	200	200
	Sub Total for Academic Fee	3,500.00	3,500.00
C.II MEDICAL FEE			
1	Statutory Medical Fee	50.00	50.00
2	Personal Accident Insurance Charge	100.00	100.00
3	Membership of SHMC	200.00	200.00
	Sub Total for Medical Fee	350.00	350.00
C.III HOSTEL FEE			
1	Hostel Seat Rent (NOT FOR SC/ST STUDENTS)**	1,000.00	-
2	Fan/Electricity/Water Charges	1,200.00	-
3	Hall Establishment Charge	2,000.00	-
4	Mess Charge	As per actuals	-
	Sub Total for Hostel Fee	4,200.00	0.00
C.IV FEE FOR GYMKHANA ACTIVITIES			
1	Gymkhana Membership Charge	150.00	150.00
2	Students Amenities Charge	500.00	300.00
3	Festival Fee	200.00	200.00
	Sub Total for Fee for Gymkhana Activities	850.00	650.00
C.V FEE FOR STUDENTS WELFARE ACTIVITIES			
1	Student Placement & Training	500.00	500.00

	Sub Total for Fee for Students Welfare Activities	500.00	500.00
	Total	9,400.00	5,000.00

*ALL SC/ST STUDENTS ARE EXEMPTED FROM PAYMENT OF TUITION FEE

**SC / ST students are not charged hostel seat rent if parents'/guardians' annual income is less than Rs. 2,00,000/-

Note: The entire fee structure is subject to a major revision, if required

**DETAILS OF THE FEE TO BE PAID BY Ph.D. STUDENTS FOR SESSION 2010-11
AT THE TIME OF REGISTRATION**

A. ONE TIME PAYMENT AT THE TIME OF ADMISSION		2010-11	2010-11
S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	ADMISSION FEE	150.00	150.00
2	THESIS	950.00	950.00
3	PROVISIONAL CERTIFICATE	100.00	100.00
4	MEDICAL EXAMINATION	100.00	100.00
5	STUDENTS WELFARE FUND	1,500.00	1,500.00
6	MODERNIZATION	500.00	500.00
7	HOSTEL ADMISSION	500.00	-
8	ALUMNI ASSOCIATION SUBS	750.00	750.00
9	PUBLICATION	250.00	250.00
10	CAREER DEVELOP PROGRAMMES	200.00	200.00
	TOTAL	5,000.00	4,500.00
B. DEPOSITS PAYABLE AT THE TIME OF ADMISSION		2010-11	2010-11
S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	INSTITUTE CAUTION MONEY (REFUNDABLE)	4000	4,000.00
2	MESS ADVANCE (ADJUSTABLE)	3000	-
	TOTAL	7,000.00	4,000.00
C. SEMESTER FEE		2010-11	2010-11
S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
C.I ACADEMIC FEE			
1	Tution Fee (NOT FOR SC/ST STUDENTS)*	2500	2500
2	Laboratory Contingency	500	500
3	Examination Fee	350	350
4	Registration Fee	200	
	Sub Total for Academic Fee	3,550.00	3,550.00
C.II MEDICAL FEE			
1	Statutory Medical Fee	50.00	50.00
2	Personal Accident Insurance Charge	100.00	100.00
3	Membership of SHMC	200.00	200.00
	Sub Total for Medical Fee	350.00	350.00
C.III HOSTEL FEE			
1	Hostel Seat Rent (NOT FOR SC/ST STUDENTS)**	1,000.00	-
2	Fan/Electricity/Water Charges	1,200.00	-
3	Hall Establishment Charge	2,000.00	-
4	Mess Charge	As per actuals	-
	Sub Total for Hostel Fee	4,200.00	0.00
C.IV FEE FOR GYMKHANA ACTIVITIES			
1	Gymkhana Membership Charge	150.00	150.00
2	Students Amenities Charge	500.00	500.00
3	Festival Fee	200.00	200.00

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	Sub Total for Fee for Gymkhana Activities	850.00	850.00
C.V FEE FOR STUDENTS WELFARE ACTIVITIES			
1	Student Placement & Training	500.00	500.00
	Sub Total for Fee for Students Welfare Activities	500.00	500.00
	Total	9,450.00	5,250.00

* ALL SC/ST STUDENTS ARE EXEMPTED FROM PAYMENT OF TUITION FEE

** SC/ST STUDENTS ARE NOT CHARGED HOSTEL SEAT RENT IF PARENTS'/GUARDIANS' ANNUAL INCOME IS LESS THAN RS. 2,00,000/-

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	GENERAL / OBC CATEGORY STUDENTS	20,400.00	12,500.00
2	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS GREATER THAN RS. 2,00,000/-)	17,900.00	10,000.00
3	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS LESS THAN RS. 2,00,000/-)	16,900.00	10,000.00

SUMMARY OF AMOUNT PAYBLE BY DIFFERENT CATEGORY STUDENTS AS INSTITUTE DUES

S. No.	Fee Head(s)	Hall Residents (Rs.)	Day Scholar (Rs.)
1	GENERAL / OBC CATEGORY STUDENTS	21,450.00	13,750.00
2	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS GREATER THAN RS. 2,00,000/-)	18,950.00	11,250.00
3	SC/ST STUDENTS (PARENTS/GUARDIANS ANNUAL INCOME IS LESS THAN RS. 2,00,000/-)	17,950.00	11,250.00

Note: The entire fee structure is subject to a major revision, if required

14. Examination pattern.

The Institute follows the modern method of continuous evaluation through a credit system for its Undergraduate (UG) and Postgraduate (PG) programme. The system offers flexibility to progress at a pace commensurate with the capabilities of students, subject to the minimum credit requirements. Each course is conducted by an Instructor-in-charge with the assistance of the required number of instructors and/or tutors. The Instructor-in-charge is responsible for planning and running the course, conducting the examinations, evaluating the performance of registered students, awarding the grades at the end of semester and submitting the grades to the *Academic Section* within the time limit. The evaluation of students in a course is a continuous process and is based on their performance in end-semester examination, mid-semester examination, quizzes, assignments, tutorials, projects, laboratory work, make-up examinations, etc. Instructors announce the distribution of the weightage at the beginning of the course. Based on a weighted average of marks obtained in these examinations, the students are awarded a letter grade in each course, for which they are registered in a given semester, by the Instructor-in-Charge at the end of the semester. The letter grades, along with their numerical equivalent, called *Grade Points* on a 10 points scale are given below:

Letter Grade:	A+	A	B+	B	C+	C	D+	D	F
Grade Points:	10	9.0	8.0	7.0	6.0	5.0	4.0	3.0	2.0

where the letter grade F indicates that the student has failed in a given course and she/he has to repeat/substitute that course. Besides, a student who has obtained a D grade in any course may also repeat the course. In addition, there are three letter grades, viz., I (Incomplete), S

(Satisfactory) and **X** (Unsatisfactory). A PG student is awarded letter grades **S** or **X** for every four credits of thesis she/he is registered for.

An UG student is required to complete successfully all the courses of the curriculum prescribed for her/his programme and attain a minimum CPI of 5.0. To obtain a degree of MTech, MDes and PhD, students must have successfully defended their thesis, earned the prescribed number of credits and attain a minimum CPI of 6.5, 6.5 and 7.0 respectively.

The Institute encourages students towards extra learning by auditing for additional number of courses. The permission to audit a course has to be taken from the concerned instructor-in-charge. The grades for a course registered as an audit course may be A⁺, A, B⁺, B, or S and shall be displayed on the Grade Sheet of the student for the semester. However, the grades obtained in the courses registered as audit course shall not be counted for the calculation of the Semester Performance Index (SPI) or the Cumulative Performance Index (CPI). SPI of a student is an indicator of her/his overall academic performance in all the courses she/he registers during the semester. It is computed as follows:

$$SPI = \frac{C_1 G_1 + C_2 G_2 + C_3 G_3 + \dots}{C_1 + C_2 + C_3 + \dots}$$

where G_1, G_2 are the letter grades in courses of credits C_1, C_2 .. respectively. CPI indicates the cumulative academic performance of a student in all the courses taken including those taken in the previous semesters. The academic performance of each undergraduate student is reviewed by the Senate at the end of a regular semester and is considered inadequate if her/his $SPI < 4.5$ or $CPI < 5.0$. Such a student is termed academically deficient. Depending on the degree of inadequacy, a deficient student may be placed on Warning or Academic Probation, or her/his academic programme may be terminated.

For details of the Examination system, please refer to U.G. and P.G. Manuals (Annexures VI and VII).

Conduct of Examinations: Rules and Guidelines

In order to formalize the examination process of the courses offered in the Institute and to maintain similarity in the evaluation process, following rules and guidelines are proposed.

The Instructor-in-charge will be solely responsible for planning and running the course, conducting the examinations, evaluating the performance of registered students, awarding the grades at the end of semester and submitting the grades to the *Academic Section* within the time limit, as specified in the *Academic Calendar*. (as mentioned in article 4.1.1 of UG Manual).

Rules

- The evaluation of the students in a course will be a continuous process and shall be based on their performance in end semester written examination (three hours duration), one mid semester written examination (one hour duration), minimum of two quizzes / short test and assignments.
- For a course with an attached lab, evaluation process shall be followed in the form of continuous assessment lab work.
- Lab course evaluation process shall comprise of weekly evaluation followed by the comprehensive lab test / quiz towards the end of semester. Lab project may also be given to individuals or in groups, to be evaluated towards the end of semester.
- Course based on EMF (Elective in Modular Form) shall be evaluated on the basis of marks obtained in assignments, one or more quizzes and a final examination.
- Graduate and progress seminars of PG students shall be evaluated as per article 4.2.9, 4.2.10 and 4.2.11 of PG Manual (Kindly refer Annexure VIII).

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- PG thesis unit evaluation shall be as per article 4.7.5, 4.7.8 of PG Manual (Please refer Annexure VII).

15. Student intake and actual enrolment for the last 5 years or since conferment of deemed university status (course-wise)

Academic Year 2010-2011

(as on 30th September, 2010 or close of the admission for the academic year, whichever is later)

Name of the Programme	Students enrolled									
	I Yr. (2010 Batch)		II Yr. (2009 Batch)		III Yr. (2008 Batch)		IV Yr. (2007 Batch)		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
B.Tech.										
CSE	87	11	30	2	47	6	24	2	188	21
ECE	84	12	59	3	49	3	26	3	218	21
ME	85	2	56	2	42	0	25	2	208	6
Total	256	25	145	7	138	9	75	7	614	48
M.Tech.										
CSE	14	4	8	1	-	-	-	-	22	5
ECE	12	0	7	1	-	-	-	-	19	1
ME	3	0	2	0	-	-	-	-	5	0
Total	29	4	17	2	-	-	-	-	46	6
M.Des.	4	1	6	0	-	-	-	-	10	1
Total PG	33	5	23	2	-	-	-	-	56	7
Ph.D. Prog.										
CSE	3	1	1	0	1	1	0	0	5	2
ECE	1	0	1	0	1	0	0	0	3	0
ME	3	1	1	0	1	0	1	0	6	1
Total	7	2	3	0	3	1	1	0	14	3
Grand Total	296	32	171	9	141	10	76	7	684	58

Academic Year 2009-2010

Name of the Programme	Students enrolled									
	I Yr. (2009 Batch)		II Yr. (2008 Batch)		III Yr. (2007 Batch)		IV Yr. (2006 Batch)		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
B.Tech.										
CSE	30	2	47	6	24	2	26	3	127	13
ECE	59	3	49	3	26	3	25	6	159	15
ME	56	2	42	0	25	2	22	0	145	4
Total	145	7	138	9	75	7	73	9	431	32
M.Tech.										
CSE	8	1	2	0	-	-	-	-	10	1
ECE	7	1	4	1	-	-	-	-	11	2
ME	2	0	1	0	-	-	-	-	3	0
Total	17	2	7	1	-	-	-	-	24	3
M.Des.	7	0	3	1	-	-	-	-	10	1
Total	24	2	10	2	-	-	-	-	34	4
Ph.D. Prog.										
CSE	1	0	1	1	0	0	-	-	2	1
ECE	1	0	1	0	0	0	-	-	2	0
ME	1	0	1	0	1	0	-	-	3	0

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Total	3	0	3	1	1	0	0	0	7	1
Grand Total	172	9	151	12	76	7	73	9	472	37

Academic Year 2008-2009

Name of the Programme	Students enrolled									
	I Yr. (2008 Batch)		II Yr. (2007 Batch)		III Yr. (2006 Batch)		IV Yr. (2005 Batch)		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls	Total	Girls
B.Tech.										
CSE	47	6	24	2	26	3	25	1	122	12
ECE	49	3	26	3	25	6	23	1	123	13
ME	42	0	25	2	22	0	19	0	108	2
Total	138	9	75	7	73	9	67	2	353	27
M.Tech.										
CSE	2	0	0	0	-	-	-	-	2	0
ECE	4	1	0	0	-	-	-	-	4	1
ME	1	0	2	0	-	-	-	-	3	0
Total	7	1	2	0	-	-	-	-	9	1
M.Des.	3	1	-	-	-	-	-	-	3	1
Total PG	10	2	2	0	-	-	-	-	12	2
Ph.D. Prog.										
CSE	1	1	0	0	-	-	-	-	1	1
ECE	1	0	0	0	-	-	-	-	1	0
ME	1	0	1	0	-	-	-	-	2	0
Total	3	1	1	0	0	0	0	0	4	1
Grand Total	151	12	78	7	86	10	67	2	369	30

Academic Year 2007-2008

Name of the Programme	Students enrolled							
	I Yr. (2007 Batch)		II Yr. (2006 Batch)		III Yr. (2005 Batch)		Total	
	Total	Girls	Total	Girls	Total	Girls	Total	Girls
B.Tech.								
CSE	24	2	26	3	25	1	75	6
ECE	26	3	25	6	23	1	74	10
ME	25	2	22	0	19	0	66	2
Total	75	7	73	9	67	2	215	18
M.Tech.								
CSE	0	0	9	1	-	-	9	1
ECE	0	0	-	-	-	-	0	0
ME	2	0	4	0	-	-	6	0
M.Des.	-	-	-	-	-	-	-	-
Total PG	2	0	13	1	0	0	15	1
Ph.D. Prog.								
CSE	0	0	-	-	-	-	0	0
ECE	0	0	-	-	-	-	0	0
ME	1	0	-	-	-	-	1	0

Rk: *DR**Sno*

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Signature

Total	1	0	0	0	0	0	1	0
Grand Total	78	7	86	10	67	2	231	19

Academic Year 2006-2007

Name of the Programme	Students enrolled					
	I Yr. (2006 Batch)		II Yr. (2005 Batch)		Total	
	Total	Girls	Total	Girls	Total	Girls
B.Tech.						
CSE	26	3	25	1	51	4
ECE	25	6	23	1	48	7
ME	22	0	19	0	41	0
Total	73	9	67	2	140	11
M.Tech.						
CSE	9	1	-	-	9	1
ECE	-	-	-	-	-	-
ME	4	0	-	-	4	0
M.Des.	-	-	-	-	-	-
Total PG	13	1	0	0	13	1
Ph.D. Prog.						
CSE	-	-	-	-	-	-
ECE	-	-	-	-	-	-
ME	-	-	-	-	-	-
Total	0	0	0	0	0	0
Grand Total	86	10	67	2	153	12

Summary of No. of Students since Conferment of Deemed University Status

Year	Total No. of Students				Total
	B.Tech.	M.Tech.	M. Des	Ph.D.	
2006-07	140	13	--	--	153
2007-08	215	15	--	01	231
2008-09	353	09	03	04	369
2009-10	431	24	10	07	472
2010-11	614	46	10	14	684

Intake Capacity

Name of the Programme	(2010 Batch)	(2009 Batch)	(2008 Batch)	(2007 Batch)	(2006 Batch)	(2005 Batch)
B.Tech.	Intake Capacity					
CSE	87	61	52	26	26	26
ECE	87	61	52	26	26	26
ME	87	61	52	26	26	26
Total	261	183	156	78	78	78
M.Tech.	Intake Capacity					
CSE	15	10	10	10	10	-
ECE	15	10	10	10	10	-
ME	15	10	10	10	10	-
M.Des.	10	10	10	-	-	-
Total	55	40	40	30	30	-

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* The intake to PhD programme is flexible.

(B.Tech.) Batch 2010

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	44	24	13	6	44	24	13	6
ECE	44	23	13	7	42	23	13	6
ME	44	23	13	7	42	23	13	7
Total	132	70	39	20	128	70	39	19

(M.Tech) Batch 2010

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	8	4	2	1	8	4	2	0
ECE	8	4	2	1	7	4	1	0
ME	8	4	2	1	1	2	0	0

(M.Des) Batch 2010

	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
Design	5	2	2	1	3	1	0	0

(Ph.D.) Batch 2010

	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	-	-	-	-	3	0	0	0
ECE	-	-	-	-	1	0	0	0
ME	-	-	-	-	2	0	1	0

(B..Tech.) Batch 2009

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	37	10	9	4	19	2	5	4
ECE	36	12	9	5	34	11	9	5
ME	36	11	9	5	32	11	8	5
Total	109	33	27	14	85	24	22	14

(M.Tech) Batch 2009

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	5	2	2	1	5	2	1	0
ECE	5	2	2	1	3	1	2	1
ME	5	2	2	1	0	2	0	0

(M.Des) Batch 2009

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
Design	5	2	2	1	6	0	1	0

(Ph.D.) Batch 2009

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST

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CSE					1	0	0	0
ECE					1	0	0	0
ME					1	0	0	0

(B.Tech.) Batch 2008

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	36	4	8	4	33	4	8	2
ECE	36	5	7	4	34	4	7	4
ME	35	5	8	4	29	5	5	3
Total	107	14	23	12	96	13	20	9

(M.Tech) Batch 2008

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	5	2	2	1	2	0	0	0
ECE	5	2	2	1	2	2	0	0
ME	5	2	2	1	0	1	0	0

(M.Des) Batch 2008

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
Design	5	2	2	1	1	0	2	0

(Ph.D.) Batch 2008

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE					1	0	0	0
ECE					1	0	0	0
ME					1	0	0	0

(B.Tech) Batch 2007

Branch	Intake			Actual Enrolment		
	OP	SC	ST	OP	SC	ST
CSE	21	4	1	21	4	1
ECE	21	4	1	21	4	1
ME	21	4	1	20	4	1
Total	63	12	3	62	12	3

(M.Tech) Batch 2007

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	5	2	2	1	0	0	0	0
ECE	0	0	0	0	0	0	0	0
ME	5	2	2	1	1	0	1	0

(Ph.D.) Batch 2007

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE					0	0	0	0
ECE					0	0	0	0
ME					1	0	0	0

(B.Tech.) Batch 2006

Branch	Intake			Actual Enrolment		
	OP	SC	ST	OP	SC	ST
CSE	21	4	1	21	4	1

ECE	21	4	1	21	4	0
ME	21	4	1	18	4	0
Total	63	12	3	60	12	1

(M.Tech) Batch 2006

Branch	Intake				Actual Enrolment			
	OP	OBC	SC	ST	OP	OBC	SC	ST
CSE	5	2	2	1	4	0	1	0
ECE	0	0	0	0	0	0	0	0
ME	5	2	2	1	3	0	1	0

16. No. of full time faculty with qualifications and Pay Scale for the last 5 years or since conferment of deemed university status

Full Time Faculty = 29 (+3 Recently Selected; to join soon)
 RE (Research Engineer)= 06

As on date June 6, 2011

Sl. No	Designation	Sanctioned Strength	Total Number of Teachers in Position				Out of Total numbers of Teachers in Position in col. (6), teachers belonging to				Teachers with PhD
			Directly Recruited	CAS #	Total	Women Out of Total	SC	ST	OBC	PWD	
1	2	3	4	5	6	7	8	9	10	11	12
1	Professor PB-4 +AGP-Rs.10500	8	2	-	2	1					2
2	Associate Professor PB-4+ AGP -Rs.9500	16	3	-	3	2					3
3	Associate Professor PB-4+AGP-Rs.9000/-		2	-	2						2
4	Assistant Professor PB-4+ AGP -Rs.9000/-	31	-	5	5						5
5	Assistant Professor PB-3+ AGP 8000		8	-	8				1		8
6	Assistant Professor PB-3+AGP- 7000		1	-	1						1
7	Assistant Professor PB-3+AGP-Rs.6000			-	-		-				-
8	Assistant Professor (on contract) PB-3+ AGP-Rs.7000/-		-	2	2						2
9	Assistant Professor (on contract) PB-3+ AGP-Rs.6000/-		3	-	3	-	1				2
10	Visiting Faculty PB-3+ AGP-Rs.6000/-		1	-	1						-
11	Visiting Faculty PB-3+ AGP-Rs.7000/-			-	-						-
12	Other (Emeritus Fellow)		2		2	1					2
	Total	55	22	7	29	4	1	-	1	-	27

For details please see **Annexure VIII**

@: Visiting Faculty members are duly selected full-time faculty on regular scale (MHRD specified). These positions are offered to candidates who are yet to submit/defend their PhD thesis.

Moved from PB-3 + AGP-Rs.8000/- to PB-4 +AGP-9000/- and PB-3+ AGP -Rs.6000/- to Rs.PB-3+AGP-Rs.7000/- in terms of MHRD letter No. F.No.23-1/2008-TS.II dated 18th August 2009 and even number dated 16th September 2009.

Note:

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1. Recently 01 Associate Professor, 03 Assistant Professors and 01 Visiting faculty resigned.
2. Selection process for three Assistant Professors in the discipline of CSE, Mechanical Engineering and Design has been completed and appointment letters have already being issued (copy enclosed) and they are likely to join soon.
3. In order to cope up the academic load due to non-availability of full-time regular faculty, the deemed university has made adequate arrangements to invite Guest Faculty in such a manner that individual (or a group of faculty members) share the complete academic load of one or more courses offered by different disciplines in a semester. 120 number of Guest Faculty members contributed to share the academic load in the last 5 years. It may be seen (Annexure XIII) that during academic year 2010-11, 35 Guest Faculty members shared the academic load for different semesters for Undergraduate and Postgraduate programme (Kindly refer Annexure XIII).
4. Discipline wise break-up of teaching staff is given below:

Existing faculty strength as on June 06, 2011

Discipline	Professor	Associate Professor	Emeritus Fellow	Assistant Professor	Assistant Professor (on contract)	Visiting Faculty	Research Engineer	Total	Guest Faculty
CSE	1	2		-	1	-	1	5	40
Design	-	-	1	1	-	-	-	2	15
ECE	-	1	-	4	2	-	3	10	18
ME	1	2	-	5	-	1	2	11	42
Natural Sciences	-	-	-	4	2			6	04
HSS	-	-	1	-	-	-	-	1	05
Total	2	5	2	16	5	1	6	35	124

Note: Individual details of faculty (Discipline-wise) is provided in Annexure XIV.

Research Engineer / Scientist

Role and responsibility of the Research Engineer –

Primary responsibility of the research engineer is Research and Development in identified thrust areas of the Institute.

Role of research engineer is to help the Institute and the faculty in development of lab infrastructure and to contribute in R&D activities of the Institute. Apart from this, they also train the students in the lab courses and prepare lab manuals for the lab courses.

Role and responsibility of the Design Engineer –

Primary responsibility of the design engineer is to bridge the gap between design and engineering. The design engineer will broadly be responsible to analyze the design created by the students and design faculty /staff, with respect to functionality, feasibility of manufacturing, aesthetic aspects, ergonomics, etc. for development of the product.

Role of design engineer is to help the Institute and the faculty in development of lab infrastructure and to contribute in R&D activities of the Institute in the field of design. Apart from this, they are also required to train the students in the lab courses and prepare lab manuals for the lab courses.

Sl. No	Designation	Sanctioned Strength	Total Number of Research in Position				Out of Total numbers of Teachers in Position in col. (6), teachers belonging to				Teachers with Ph.D.
			Directly Recruited	CAS #	Total	Women Out of Total	SC	ST	OBC	PWD	
1	Research Engineer Gr.I PB-3 +AGP-Rs.6000	3	3		3						

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2	Research Engineer PB-3 +GP-Rs.5400	4	3	3	1					
3	Research Scientist PB-3 + AGP-Rs.8000/-	1								
4	Design Engineer PB-3+GP-Rs.5400/-	1								
5	Network-cum- System Administrator	1								

Faculty during the last 5 years

Year	Professor	Emeritus Fellow	Associate Professor	Assistant Professor	Visiting Faculty	Assistant Professor (on contract)	Total	Remarks
2006-07	2 [#]	1	1	2	2	-	8	
2007-08	2 [#]	1	2	5	3	-	13	
2008-09	2 [#]	2	3	5	3	-	15	
2009-10	2	2	5	13	3	5	30	One Professor joined as Director of the Institute wef November 18, 2009
2010-11 (As on June 06, 2011)	2	2	5	14	1 + 1*	5 + 2*	30 + 3*	

#: Professor Sanjiv Bhargava (from IIT Kanpur) joined as Director of the Institute.

*: Recently selected; to join soon

17. Whether qualified faculty is available as per the norms of UGC and relevant Statutory Council(s).

Yes. All the faculty members except one are Ph.D. from good university/institutes in their respective branches. The selection of faculty members is done by properly constituted selection committees, whose members are decided as per the requirements outlined by MHRD / UGC / AICTE.

Faculty currently employed is qualified as per norms. No. of available faculty members is less than as required as per AICTE norms.

18. Student faculty ratio (Course-wise) for the last five years or since the conferment of Deemed University status.

Students = 661* (UG Students: 591* + PG Students: 56 + PhD Scholars: 14)
 Faculty = 29
 Overall Student faculty Ratio = 22:1

*: Out of 684 total students in 2010-11, 23 students of BTech First year left the programme.

For both UG and PG PROGRAMME:

S.No	Branch	Students Faculty Ratio \$	
1.	Computer Science & Engineering	28:1	These ratios do not include Guest Faculty members (sharing the full course load - 35 in number) during the year 2010-11.
2.	Electronics & Communication Engineering	20:1	
3.	Mechanical Engineering	14:1	
4.	Design	3.3:1	

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S.No	Branch	Number of UG Students	Number of PG Students	Total Number of Students (UG & PG)	Total Number [#] of Faculty
1.	Computer Science & Engineering	178	22	200	4
2.	Electronics & Communication Engineering	211	19	230	7
3.	Mechanical Engineering	202	5	207	9
4.	M. Des	--	10	10	2

\$ PhD scholars have not been included in the ratio given above.

does not include applied science faculty

19. Details of the staff for the last 5 years or from the conferment of deemed university status (course-wise) (Technical, Administrative etc.)

List of Group – A Officers since inception of the Institute

S. No.	Name of Employee	Designation	Date of joining	Remarks
01	Col (Retd.) P.S. Sandhu	Registrar	01.10.2010	
02	Mr. Raghunath Battacharya	Deputy Registrar	09.01.2009	
03	Mr. Ram Phal Dwivedi	Deputy Registrar	29.07.2009	
04	Mr. Ram Shankar	Assistant Registrar	30.12.2009	
05	Mr. Prabodh Pandey	Assistant Registrar	14.07.2010	
06	Mr. Jeeb Pati Singh	Actg. Registrar		Resigned
07	Mr. SC Prusty	Finance Officer		Resigned
08	Mr. Satyendu Mohan	Deputy Registrar		Resigned

List of Administrative Staff since inception of the Institute

Sl. No.	Name of Employee	Designation	Date of joining	Remarks
1.	Mr. Aloysius Beenu Michael	Senior Stenographer	01.12.2009	
2.	Mr. Ashok Kumar	Jr. Superintendent	11.11.2009	
3.	Mr. Sandeep Awasthi	UDC	17.10.2006	
4.	Mr. Anil Kumar	UDC	08.11.2006	
5.	Mr. Shailesh Sharma	UDC	27.10.2009	
6.	Mr. Praveen Kumar Armo	UDC	09.11.2009	
7.	Mr. Dev Krishna Jha	LDC/ Dy. Account Asstt	17.10.2006/ 26.10.2009	
8.	Mr. Pankaj Prajapati	LDC	17.10.2006	
9.	Mr. Simanta Kar Gupta	LDC	17.10.2006	
10.	Mr. Avashesh Kumar Pal	LDC	26.10.2009	
11.	Mr. Prashant Agnihotri	LDC	26.10.2009	
12.	Mr. Prakash B	LDC	06.11.2009	
13.	Mr. Dilip Rangare	LDC	11.11.2009	
14.	Mr. Rajesh Kumar	LDC	11.11.2009	
15.	Mr. Adesh Kumar	LDC	22.06.2010	
16.	Ms. Savita K Bisikar	LDC	25.06.2010	
17.	Mr. Kamlesh Singh Warkade	Care Taker	16.11.2009	

18.	Mohd. Izrael Khan	Driver	26.10.2009	
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List of Technical Staff since inception of the Institute

Sl. No.	Name of Employee	Designation	Date of joining	Remarks
1.	Mr. Vijay Kumar Dubey	Assistant Engineer (Civil)	02.12.2009	On deputation from CPWD
2.	Mr. R K Mishra	Junior Engineer (Civil)	15.01.2007/ 26.10.2009	
3.	Mr. Pradeep Kumar Nayak	Junior Engineer (Electrical)	10.11.2009	
4.	Mr. Alok Kulkarni	Technical Assistant	18.10.2006	
5.	Mr. Akhilesh Srivastava	Technical Assistant	18.10.2006	
6.	Mr. Jitendra Gupta	Technical Assistant	18.10.2006	
7.	Mr. Rajesh Kumar Singh	Technical Assistant	26.10.2009	
8.	Mr. Anupam Shukla	Technical Assistant	09.11.2009	
9.	Mr. Brajesh Kumar	Technical Assistant	09.11.2009	
10.	Ms. Sapana Wankhede	Library Assistant	09.11.2009	
11.	Mr. Varun Dubey	Lab. Assistant	18.10.2006	
12.	Mr. Mayur S Mangole	Lab. Assistant	18.10.2006	
13.	Ms. Aayesha B Mansoori	Lab. Assistant	20.10.2006	
14.	Ms. Bharati Kewat	Lab. Assistant / Technical Assistant	11.01.2007/ 26.10.2009	
15.	Mr. Ram Dularey Vishwakarma	Lab Assistant	22.06.2010	
16.	Mr. T.S. Anand	Asstt. Engineer/ Asst. Executive Engineer	07.03.2006/ 20.04.2009	Resigned

20. Details of courses run on regular basis

(a) Courses offered at the time of conferment of Deemed to be University status

- Name of course (Newly introduced or where intake is increased)
- Intake / Increase in intake
- Date of introduction / date of increase in intake

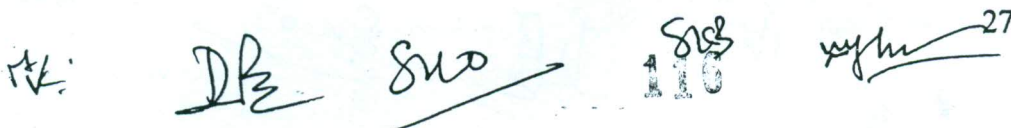
Name of courses (Newly introduced or where intake is increased)

The following courses were started in the Institute in the year(s) mentioned in the table below:

S.No.	Programme	Year
1.	BTech	2005
2.	MTech	2006
3.	PhD	2007
4.	MDes	2008

Increase in Intake

The intake in BTech in CSE, ECE & ME discipline were increased as per the following table



Programme: B.Tech.

Intake in 2005 / 2006 / 2007	Intake in 2008	Intake in 2009
CSE = 26	CSE = 52	CSE = 61
ECE = 26	ECE = 52	ECE = 61
ME = 26	ME = 52	ME = 61

CSE: Computer Science & Engineering

ECE: Electronics & Communications Engineering

ME: Mechanical Engineering

Programme: M.Tech.

- Students in M.Tech. in ECE discipline were first admitted in the year 2008.

Intake in 2006 / 2007	Intake in 2008 / 2009
CSE = 10	CSE = 10
	ECE = 10
ME = 10	ME = 10

Programme: M.Des.

Intake in 2008 / 2009 / 2010
10

- Corresponding additions in infrastructure (only additional facility created shall be indicated) – Building (covered area), Equipment (worth in Rs.), Books & Journals (worth in Rs.), Faculty (Professor, Reader, Lecturer)

As the Institute was in the year of formation, the Infrastructure details are given at Item No. 21, Library details are given at Item No. 24 and Faculty details are given at Item No. 16.

- Whether approval of statutory council taken (if yes, give approval no. & date with enclosure)
Yes, F.95/2006-U 3(A) Dated- June 24, 2009. (Annexure IV), and
Letter No. F.5-1/2009-UI Dated July 27, 2010 (Annexure IX)

- Whether approval of UGC taken
Yes, F.95/2006-U 3(A) Dated- June 24, 2009. (Annexure IV)

- Whether accredited by NAAC / NBA
Not yet

- (b) Courses introduced after declaration as Deemed to be University and courses where intake has been increased in the following format –

- Name of the Course(s) introduced or intake increased

a) New courses, namely Ph.D. in Design and M.Tech. in Mechatronics (Intake 15) to be started from the year 2011-12.

b) The intake of BTech and MTech courses increased as per the tables given below.

- Intake / increased intake

Rk:

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Programme: B.Tech.

Intake in 2009	Intake in 2010
CSE = 61	CSE = 87
ECE = 61	ECE = 87
ME = 61	ME = 87

Programme: M.Tech.

Intake in 2009	Intake in 2010
CSE = 10	CSE = 15
ECE = 10	ECE = 15
ME = 10	ME = 15

- Date of Introduction / date of increase in intake
 - a) Ph.D. in Design and M.Tech. in Mechatronics to be started from the year 2011-12.
 - b) Increase in intake of BTech and MTech courses in the year July/ August 2010.
- Corresponding additions in infrastructure – Building, Equipment, Books & Journals, Labs, Faculty etc.
(Please indicate additional facilities created only) details at item 21
- Whether approval of Statutory Council taken (if yes, give approval letter No. and date)
Not required
- Whether approval of UGC taken
Not required
- Whether accredited by NBA / NAAC
Not yet

21. Whether infrastructure is available as per the norms and standards of the relevant Statutory Council.

Infrastructure is being developed

S. No	Class of Institutions	Area Available at Present			
		Instructional Area (Carpet Area) (Sq. m.)	Administrative Area(Carpet Area) (Sq. m.)	Circulation and other Area**** (Sq. m.)	Total Area (Sq. m.)
1.	Engineering & Technology	2928	900	1476	5304

	Land Area requirement in Acres		
	Other than Rural places (Competent Authority to certify that the place is not located in a rural area)		
	UG Programs No. of Students	Post Graduate Programs No. of Students	Available Land Area
Intake 2010-11	678 Students	95* Students	250 Acres

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Actual strength 2010-11	591 Students	70 Students	
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* The intake to PhD programme is flexible.

BUILT UP AREA

S.No	Class of New Institutions	Class rooms Tutorial Room		Computer Centre		Library		Laboratory		Workshop		Total Area
		No. of Rooms	Area (sqm)	No. of Rooms	Area (sqm)	No. of Rooms	Area (sqm)	No. of Halls	Area (sqm)	No. of Halls	Area (sqm)	Sqm.
1.	Engg. & Tech.	6	669	1	150	1	220	7	1577	1	312	2928

DETAILS OF INSTRUCTIONAL AREA (CARPET AREA)

The following buildings are going to be constructed by the CPWD very soon. The work is at tender stage

- 1) **Lecture Hall and Tutorial Complex:** Total Plinth Area 9711 m² with provisions of 1 Lecture Hall of 600 capacity, 2 nos of 300, 4 nos of 200 capacity, 4 nos of 120 and 16 class rooms of 50-60 capacity.
- 2) **Library cum Computer Centre:** Total Plinth Area 6120 m² with four storied building having 1530 sqm area on each floor. Ground and first floors have provision for Library & second and third floor have provision of Computer Centre.
22. **Whether courses are run under distance mode also. If yes, whether the courses run under distance mode are approved by the Joint Committee of UGC-AICTE-DEC.**
NO
23. **Name and place of off-campus/off-shore campus/study centre, if any. If yes, whether permission obtained from UGC / MHRD / Statutory Council(s) (Attach copy).**
NO
24. **Library (details of Books, Journals, Magazines, CDS etc.)**

Information about Library facilities

- A. Total Area of the library: 191 Sqm (Spacious library and computer center to be constructed in near future)
- B. Seating capacity of the library: 52 (48+4)
- C. Reprographic facility (Yes/No): Yes
- D. Working hours of library: 8:00 AM-11:00 PM (Working Semester),
9:00 AM-5:30 PM (Vacation Period)
- E. Library Networking facility (Yes/No): Yes
- F. Usage data of the library (in terms of books issued to the faculty & students etc.):
Faculty: 20 books for 6 months
Students: PG: 7 books for one month, UG: 5 books for 15 days
- G. Annual library budget: Average Rs. 1 Crore
For the year 2011-12: Rs. 90 Lakhs (Online resources),

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Library (Details of Books, Journals, Magazines, CDs etc.)

Collection of Books (Total Books - 8875)
Books - 8837 (Text, Reference, and Handbook)
Gratis Books - 38
Periodicals (Total 2318+14)
International - 2318
Gratis Periodicals - 14
Bound Volume -
Project/Thesis - 11
Non-Book Material (Total Non Book Material - 852)
CDs & Floppies - 852 (Received with Books)

News Papers and Periodicals

S. No.	Item	2010-11
1.	Newspaper	11
2.	Magazines	19

Details of Electronics Resources:

Search Engine: Scopus

Resources

Online Journals (No.)

1. ACM	44
2. ASME	25
3. IEEE Resources	267
4. Springer Link	1334
5. Science Direct (Options I)	630
Total	2300

Other Electronic Journals:

- SIAM Journal on Mathematical Analysis (SIMA)
- SIAM Journal on Matrix Analysis and Applications (SIMAX)
- SIAM Journal on Numerical Analysis (SINUM)
- SIAM Journal on Scientific Computing (SISC)
- SIAM Journal on Applied Mathematics (SIAP)
- Applied Physics Letters
- Physical Review B
- Physics Education
- Smart Materials and Structures
- Nanotechnology
- American Journal of Physics (Print Available)
- Physics Teacher (Print Available)
- Management Science
- Operation Research
- Journal of Design History
- The International Journal of Art & Design Education
- International Journal of Design [Open Access]

18. MathSciNet

OPAC available at URL <http://web.iitdmj.ac.in>

25. **Research Projects approved and completed during the last 5 years (year, no. of projects, amount sanctioned, amount received, funding agency etc.)**

Research Projects Details:

Project Title	Duration	Investigator	Funding Agency	Amount Sanctioned	Status
Constrained Curve Drawing Algorithms for Robot Motion Planning	2010-13	PI: Prof. Aparajita Ojha Co-PI(s): Dr. Tanuja Sheorey	DST, M/o of Science & Technology, Government of India	Rs. 9,23,400/-	Ongoing
Improved Controller Desing for AQM Routers Supporting TCP Flows	2008-11	PI: Dr. Prabin Kumar Padhy	DST, Ministry of Science & Technology, Government of India	Rs. 3 Lakhs	Ongoing
Geometric Modeling, Analysis and Design for Generic Definitions of Custom Engineered Cutting Tools	2008-11	PI: Prof. Puneet Tandon Co-PI(s): Dr. Vijay Kumar Gupta Dr. Pritee Khanna	DST, Ministry of Science & Technology, Government of India	Rs. 25.26 Lakhs	Ongoing
Tracking and Analysis of Metro Bus Service of Jabalpur City Transport Services Ltd. (JCTSL)	2008-09	PI: Prof. Puneet Tandon	Jabalpur City Transport Services Ltd., Jabalpur	Rs. 1.5 lakhs	Completed
Development of a micro pump with NEMS sensing function for an automatic blood collecting and measurement system	2010-12	PI: Prof. Puneet Tandon Co-PI(s): Dr. Vijay Kumar Gupta Dr. Tanuja Sheorey	DST, Ministry of Science & Technology, Government of India & Japanese Society for Promotion of Science (JSPS) Japan	Rs. 4.38 lakhs (Grant from the Indian Funding Agency)	Ongoing
Carpet Dedusting and Carpet Washing Machine	2007-2011	PI: Prof Amit Ray	The Ministry of Textile (Handicraft Commission), New Delhi	Rs. 12,89,000	Completed
CAD Based Software for the Indian Carpet Industries	2006 June-2008 June	PI: Prof Amit Ray	Media- Lab Asia, New Delhi	Rs. 110,000	Completed
CAD software development of Indian Faces	2005 August	PI: Prof Amit Ray	SIDBI, IIT Kanpur	Rs. 40,000.00	Completed
Information Integration	2007-08	PI: Dr. Pritee Khanna	Jabalpur District Collectorate Office	Rs. 1 Lac	Completed
Virtual Lab: Automated Systems	2010-12	PI: Dr. Tanuja Sheorey Co-PI(s): Dr. Vijay Kumar Gupta Prof. Puneet Tandon	MHRD, Govt. of India	Rs. 40 Lacs	Ongoing
Virtual Lab: Manufacturing	2010-12	PI: Dr. Vijay Kumar Gupta Co-PI(s): Dr. Tanuja Sheorey Prof Puneet Tandon	MHRD, Govt. of India	Rs. 40 Lacs	Ongoing

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Electrical Characterization of nano scale MOSFET's Scalability Issues and Possible Solutions	2010-13	PI: Dr. Ashutosh Srivastava	DST, Ministry of Science & Technology, Government of India	Rs. 15 Lacs	Ongoing
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26. Publications in Conferences, Journals and Books by the faculty during the last five years or since the conferment of Deemed University status (year, conferences, journals, books)

Year	Conferences		Journals		Books	Book Chapters	Articles in Newspapers & Magazines	Patents	Total
	National	International	National	International					
2006-07	01	10	--	33	--	--	01	-	45
2007-08	01	04	--	28	--	--	--	-	33
2008-09	03	10	--	28	--	--	--	2	43
2009-10	03	12	--	45	04	--	--	-	64
2010-11	01	26	--	30	01	--	--	-	58
2011-12	01	08	--	19	--	01	--	-	29
TOTAL	10	70	--	183	05	01	01	02	272

For details please see Annexure X

27. Financial position of the Deemed University (income-expenditure since the conferment of Deemed University status)

Financial Position of the Deemed University

Rs. (In lakhs)

Year	Opening Balance	Grant Amount	Total Amount	Utilized	Balance of Grant Amount	Internal Income
2004-05	0.00	400.00	400.00	26.29	373.71	0.00
2005-06	373.71	600.00	973.71	487.04	486.67	30.31
2006-07	486.67	800.00	1286.67	914.73	371.94	91.39
2007-08	371.94	1100.00	1471.94	1415.98	55.96	58.86
2008-09	55.96	23.92	2447.96	1690.48	757.48	106.41
2009-10	757.48	4100.00	4857.16	4744.54	112.93	159.56
2010-11	112.93	4500.00	4612.93	4568.87	44.06	214.06

Detailed balance sheet for 2009-10 is enclosed at Annexure-XVI

28. Seminars/Workshops/Conferences/Training programmes conducted during last five years or since the conferment of Deemed University status.

Year	Seminars / Workshops / Conferences		Training Programs		Total
	National	International	National	International	
2006-07	01	00	--	--	01
2007-08	04	00	--	--	04
2008-09	00	00	--	--	00
2009-10	01	00	--	--	01
2010-11	03	01	--	--	04
Total	09	01	--	--	10

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For details please see Annexure XI

29. **Conferences attended by the faculty during the last five years or since the conferment of Deemed University status**

Year	National	International	Total
2006-07	01	10	11
2007-08	09	04	13
2008-09	08	15	23
2009-10	07	18	25
2010-11	02	23	25
2011-12	00	03	03
Total	27	73	100

For details please see Annexure XII

30. **Guest lectures conducted during the last five years or since the conferment of Deemed University status**

Keeping in view that the fact that academic Institutes are channels to provide opportunities to students to meet and interact with legendary figures to get inspired and shape up their dreams, the Board of Governors of the Institute has instituted following four distinguished lecture series in each of the areas of engineering and technology, computational sciences, humanities and social sciences and biological and physical sciences.

- (i) Vishwesharayya Distinguished Lecture in the area of Engineering Technology
- (ii) Ramanujan Distinguished Lecture in the area of Computer Science and Engineering
- (iii) Raman Disctinguished Lecture in the area of Biological and physical sciences with computational applications
- (iv) Tagore Distinguished Lecture in the area of Arts, Social Sciences and humanities

Following eminent experts delivered lectures in three of the above series lectures –

- **Prof. H. Seshadri**, a distinguished mathematician, Fellow of Royal Society, London, and presently at Chennai Mathematical Institute.
- **Shri Ashok Vajpei**, A renowned critic and poet, Hindi literature and the mentor of Bharat Bhawan, Bhopal.
- **Dr. Anil Kakodkar**, A famous nuclear scientist, Homi Bhabha Chair Professor at BARC and former Chairman of Atomic Energy Commission.

Guest Lectures conducted

Apart from the distinguished lectures, the number of eminent guests that visited the Institute and delivered lectures are summarized below:

Year	National	International	Total
2006-07	03	04	07
2007-08	01	08	09
2008-09	14	19	33
2009-10	11	15	26
2010-11	16	19	35
Total	45	65	110

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Note: 10 Guest Faculty members offered courses common to three disciplines of CSE, ECE & ME.

For details please see **Annexure XIII**

31. Industry/Institution interface (outreach to other Institutions/Industry)

INDUSTRY INTERFACE AT PDPM IITDM JABALPUR

After establishing Advanced Manufacturing Processes Laboratory and the Design capabilities at the Institute, interaction with the local and nearby industries has begun during the third quarter of the year 2010. The first meeting with the local Industrialists was held on November 25, 2010 at the Institute. A total of about 10 people participated in the interaction meeting. Faculty from IITDMJ has presented their capabilities and research interests which could help local industries with the available resources both in design and manufacturing areas.

In continuation to the above discussions at IITDMJ, an Industry-Interaction has been organized by the local small scale industry chapter on February 22, 2011 in the RICHAIL industrial area. During this meeting problems related to various industries (15 different industries and about 30 participants were present) were observed. All the industrialists were invited to the campus and demonstration of facilities available with the Institute along with the strengths of the Individual faculty were showcased.

Since their visit to IITDMJ, work related to services and concept designs have started. Such works could benefit them both in terms of technical as well as commercial values.

The above activities were carried with an attempt to establish MSME design Clinic Center at IITDMJ.

The Institute has started working with the following organizations, including identification of their problems and the initiation of the solutions to the problems, in Design and Engineering services for product development:

1. Saraswati Engineers, Jabalpur
2. Dynamech Designs & Structures, Jabalpur
3. Dalchand Bombay Wala, Jabalpur
4. J N Auto Pvt. Ltd, Jabalpur
5. Dulocos Pvt. Ltd, Nagpur
6. Gurunanak Industries, Katni, MP
7. Miltech Industries Pvt. Ltd, Nagpur
8. Narke Electricals, Pvt. Ltd, Nagpur
9. Jabalpur Hospital, Jabalpur
10. Imaginarium(India) Pvt. Ltd., Mumbai

Discussions to involve the following organizations in the Institute-Industry forum are in process:

1. M/s Neometrix Engineering Pvt. Ltd, New Delhi
2. M/s Frontier Springs Pvt. Ltd, Kanpur
3. Textron India Pvt. Ltd, Bangalore
4. Stryker(India) Global Technology Center, Gurgaon
5. Infotech India Pvt. Ltd, Hyderabad
6. Ordinance Development Center, Kanpur

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7. Ordinance Development Center, Jabalpur
8. IAITO Infotech (P) Ltd, Kanpur

32. Result during the last five years

Year	Degree	No. of Students Appeared	Result (Pass)	(Fail)
2009	B.Tech	67	63	04
	M.Tech.	01	01	00
2010	B.Tech	74	69	05
	M.Tech.	07	07	00
	M.Des.	03	03	00

33. Placement details of the students for the last five years or since the conferment of Deemed University status

Batch	No of students eligible for placement	No of students placed through Institute	Placement through Off-campus / Centralized/ Individual Efforts	Highest Package (Rs. In lakhs)	Average Package (Rs. In lakhs)
2005-09	63	15*	7	5.0	3.0
* Many students could not be placed at the time of graduation due to global recession, but they have been employed later through the efforts of Placement Cell and individual efforts					
2006-10	71 (UG)	48	19	12.0	3.75
	PG	03	-	3.5	3.25
2007-11	71 (UG)	44		7.2	3.75
	PG	03			

Some of the prominent companies / organizations that visited our campus are:

- | | |
|--|---|
| (i) Bharat Electronics Limited | (x) KPIT Cummins |
| (ii) Amada, Japan | (xi) Active Sensing India Pvt. Ltd |
| (iii) Telecom Consultants of India Limited (TCIL) | (xii) Mahindra & Mahindra |
| (iv) Indian Railway Catering & Tourism Corporation | (xiii) Embedded Infotech |
| (v) Tata Technologies | (xiv) KIIT University |
| (vi) Altair Engineering | (xv) Whirlybird Electronics Pvt. Ltd. |
| (vii) Capital IQ | (xvi) Innovative Embedded Systems Pvt. Ltd. |
| (viii) Infosys Technologies Limited | (xvii) Enercon India Pvt Ltd |
| (ix) CGI | (xviii) Apna Technologies & Solutions |
| | (xix) Hella India Electronics Pvt. Ltd |
| | (xx) Advance Valves |

Higher Studies:

Our students have shown more interest to pursue higher studies and some of the major universities / institutes (across globe) where the students are able to secure admissions are:

- (i) Erasmus Mundus Scholarship Program (Europe) *

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(Only 17 non-European students are offered this prestigious scholarship to pursue 2 year post graduate programme in different universities across Europe, and out of this 2 students in the year 2009, 1 in 2010 and 1+1* in 2011 belong to this Institute)

MS Programmes in:

- (ii) The University of Tokyo
- (iii) Texas A&M University
- (iv) Texas Tech University
- (v) University of Cincinnati, Ohio
- (vi) Univ. of British Columbia, Canada
- (vii) Iowa State University
- (viii) Louisiana State University, Virginia
- (ix) University of California - Santa Cruz
- (x) Kansas State University

- Design (MDes) Programmes of IIT Bombay, IISc Bangalore, IIT Kanpur, IIT Delhi
- Management (PGDM / MBA) at IIM Shillong, IIM Kozhikode, XLRI Jamshedpur, IITs, Symboisis etc.

34. Recent Achievements

34.1 A World-Wide Consortium of Design Services

The Institute has become one of the founding members of the worldwide consortium of Design Services. Presently the consortium consists of five members one from each of the five continents – Africa, Asia, Europe, North America and South America. From Asia the Institute is the founding member. Details of the Consortium objectives and goals are as given below -

Participating Universities/Institutes

1. Delft University of Technology, the Netherlands
(Proposer of the consortium)
2. Purdue University, Lafayette campus, United States of America
3. Vaal University of Technology (VUT), South Africa
4. EAFIT, Medellin, Columbia
5. PDPM IIT DM Jabalpur

Objectives:

We are heading towards an era where Ubiquitous Networked Society (UNS) is going to play an important role. In UNS, knowledge generation and product/service innovation are supported by omnipresent networks and networked devices. Recent example is mobile phones. Ubiquitous computing (UC) is also going to be a common trend. UC is about equipping everyday things in the real world with information processing power. It may have various forms

- calculation,
- sensing,
- exploration,
- transmission,
- networking, and
- signal conversion

It also means integrating information and knowledge into artifacts and services. The objective is an optimal support of humans in their daily life activities in a personal, unattended and remote manner.

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The consortium seeks to accomplish the following goals:

1. To explore opportunities for funding collaborative research and education activities of the partners involved.
2. Researching in and applying design methodologies for ubiquitous computing technology to support product innovation and design in various social and cultural contexts.
3. Nurture knowledge transfer between the partner Institutes in the form of joint research projects, staff exchanges, joint PhD research projects, video-conferencing based courses and research symposiums.
4. Planting the seed of a new international leadership, creative community and professional network in the proliferation of ubiquitous technology-enabled innovation in social context.

Activity

In order to achieve its goals, it was felt essential to establish collaboration links between the partner institutes/universities. Hence it was proposed to begin with a video-conferencing based course for PG students on product design and design services. The partner members successfully launched a course on **Artifact and service innovation with ubiquitous technologies**. Details of the course are as given below.

Course goals and objectives

Paradigm of ubiquitous computing is shifted from need to incorporate user interface design or human-computer interface to anchoring of technology design in human activity, that gives emphasis to aspects of human, social and organizational contexts within which information and communication technologies are both being designed and used.

The reason for this shift in perspective is all-pervading IT artifacts in our daily life. There needs to be significant research work to provide more integrated conceptual frames for understanding human activity in the world that motivates developing design scenarios involving ubiquitous technology.

On one hand, significant resources are put into developing the underlying infrastructure, namely telecommunication and computing; On the other hand, there is a small share of funding that goes in investigating social, cultural and economic impacts of these developments. Hence there exists a large gap between technological advancements and social impacts. This course was oriented to fill in the gap with the approach of engaging students in design through innovation of artifacts where individual and social use pattern and activities are primary.

Course details

- The new course was orientated towards learning innovation. The idea was to teach students how to exploit the opportunities offered by ubiquitous technologies towards product /service innovation in social context. The course started from January, 2011. Each consortium partner enrolled 5-6 students for the course. The students were then grouped in mixed international teams. Each team had an instructor/coach from one of the consortium partners. The course was divided into four modules as given below-

Module 1: Operative research into technology combinations and social exploitation opportunities

Module 2: Innovation idea and implementation know how generation

Module 3: Abstract prototyping and other actions for finding and contracting partner companies

Module 4: Valorization and business plan completed with augmented prototype development

The course has been successfully completed in April, 2011. Participating faculty from the Institute were Dr. Tanuja Sheorey, Dr. V.K. Gupta and Dr. Prabin Kumar Padhy. A consortium meeting will be held in EAFIT, Medellin, Columbia in the month of June, 2011 to assess the achievements and to

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demonstrate the outcome of the course. It will also decide the future course of action of the consortium.

34.2 Design Workshop (DeW 2010)

An international workshop organized by the Institute during the period October 11-15, 2010 on "Leading Edge Theories and Practices in Design" jointly with Ministry of Foreign Affairs (MOFA) Japan. The workshop has recorded presence of experts and participant from many countries across the globe.

34.3 Faculty Achievement

1. Dr. Prabin Kumar Padhy granted BOYSCAST fellowship by DST and visited University of Tokyo as a Researcher during July 2009 to January 2010.
2. Dr. Pritee Khanna has been invited under the "FY2011 JSPS (Japan Society for the Promotion of Science) Invitation Fellowship Program for Research in Japan (Long-term)" to conduct research with Prof. Haruo Yokota, Professor of Computer Science & Engineering, Tokyo Institute of Technology, Tokyo for a period of 8 months.
3. Dr. Asish Kumar Kundu awarded BOYSCAST fellowship by DST for year 2010-2011.
4. Dr. Gautam Dutta has been invited to visit University of Pretoria, South Africa during May-July 2011 to carry out research work in the field of fluid dynamics and heat transfer.
5. Dr. Rajesh Kumar Pandey awarded IASc-INSa-NASi Summer Research Fellowship – 2010 and availed at Physics & Applied Mathematics Unit, Indian Statistical Institute, Kolkata, India.
6. Prof. Amit Ray invited to deliver Lecture and Guiding Ph.D thesis (June 2010) at *Institute of Ergonomics, Darmstadt TU, Germany*
7. Prof. Amit Ray invited for collaboration in Sustainable Design at Design Department at Delft TU, The Netherlands and Environmental Policy and Studies at Utrecht University, The Netherlands (June 2010)
8. Prof. Amit Ray invited as 'Lead Speaker' and Chairperson at the International Ergonomics Conference of Humanizing Work & Work Environment (HWWWE), Dec. 17-19, 2009, Calcutta, India
9. 15 members of faculty visited Japan for exposure visit for a period of 15 days to 1 month during 2007, 2009 and 2010 under JENESYS programme.

34.4 Students Achievement

1. 15 Outstanding UG, PG and PhD students of the Institute have been selected for Japan-East Asia Network of Exchange for students and youths (JENESYS) programme for the year 2011. They will be proceeding for Japan on May 16, 2011 for 9 days.
2. A good number of students have presented their papers in reputed national and International conferences/ workshop.

35. Facilities for faculty and staff

Faculty

1. Research initiation grant of Rs. 10 lakhs
2. Laptop and data card for internet usage

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3. Professional development allowance of Rs. 3.00 lakhs in a block of three years as per MHRD notification
4. Dedicated office space with computer, printer, scanner, office furniture, book shelves and stationery
5. Internet and intranet in the campus
6. Bus facility to commute between office and residence
7. LTC facility for visiting to home town and other places as per Govt. of India norms
8. Medical facilities

Staff

For officers

1. Laptop and data card for internet usage
2. Dedicated office space with computer, printer, office furniture, shelves and stationery.
3. Internet and intranet in the campus
4. Financial support to get trained in specialized areas
5. Bus facility to commute between office and residence
6. LTC facility for visiting to home town and other places as per Govt. of India norms
7. Medical facilities

For other staff

1. Office space with computer, printer, office furniture, shelves and stationery.
2. Internet and intranet in the campus
3. Financial support to get trained in specialized areas
4. Bus facility to commute between office and residence
5. LTC facility for visiting to home town and other places as per Govt. of India norms
6. Medical facilities

36. Facilities for students

- (a) Sports and games
The Institute has provided badminton court, volley ball courts, table tennis, cricket field and tennis court in its hostels and the Institute premises.
- (b) Hostel facility
The hostels are provided with separate mess facility, common rooms with TV, indoor games, reading room, etc.
- (c) Bus facility - To commute between the select locations in the city and the Institute - Frequency 4 times per day on the time decided by the students and Coordinator, Students Affairs
- (d) Music room
- (e) Bank in the campus

37. Scholarships/Fellowships instituted by the Deemed to be University for Teachers and Students and no. of beneficiaries (year-wise for the last 5 years)

1. In order to financially assist (a) meritorious students coming from weaker economic background, (b) Scheduled Castes (SC), Scheduled Tribes (ST) and Other Backward Caste (OBC) students, the Institute awards
 - (i) Scholarships,
 - (ii) Tuition Waivers (Freeships),

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- (iii) Book and other Grants,
- (iv) Free Basic Messing Facility
- 2. In order to promote the study at the postgraduate level, the Institute awards various scholarships/assistantships to its students either from its own funds or from funds obtained from other governmental or non-governmental sources.
- 3. In order to promote research and development in a specified field, the Institute awards various scholarships, prizes and medals to its undergraduate as well as postgraduate students either from its own funds or from funds obtained from other governmental or non-governmental sources.

FINANCIAL ASSISTANCE FROM INSTITUTE FUNDS

a. Merit-cum-Means (MCM) Scholarships for Undergraduate Students

1 Number of Scholarships

- 1.1 In order to financially assist meritorious students coming from economically weaker background, the Institute may award Merit-cum-Means scholarships to needy students from its own funds made available by the Ministry of Human Resource & Development (MHRD) for this purpose.
- 1.2 The total number of MCM scholarships awarded in a given batch shall not exceed 25 % of the students enrolled in that batch of the B Tech program. 20 % of the total number of available MCM Scholarships for each batch shall be reserved for students belonging to the SC/ST categories.
- 1.3 MCM Scholarships, if unutilized by any particular batch, may be transferred to another batch. Also, unutilized MCM Scholarships reserved for SC/ST students may be transferred for award to the general category students.

2 Amount of Scholarship

- 2.1 The amount of MCM Scholarship for both general as well as SC/ST category of students shall be as prescribed from time to time by the Ministry of Human Resource & Development (MHRD), and approved by the Board of Governors of the Institute.

At present the value of the MCM Scholarship for both category of students is Rs 1000/- per month.

- 2.2 The award of the MCM Scholarship would also imply granting of Tuition Waiver, i.e. the Freeship.

b. Institute Assistantships to Postgraduate Students

i. Institute Assistantship to M Tech Students

- 1. Depending on the number of assistantships available with each discipline, the Institute may award them to meritorious students of the M Tech programme.
- 2. Only those students shall be eligible for receiving the Institute Assistantship who have a valid qualifying Graduate Aptitude Test in Engineering (GATE) Score with them. However, those M Tech students who have done their B Tech from IITs and have secured a graduating CPI > 8.0 on a scale of 10.0, shall be eligible to receive Institute Assistantship without having a valid qualifying GATE Score.

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3. Amount of the Institute Assistantship for M Tech students shall be as per the directive of the Ministry of Human Resource & Development (MHRD) and may change from time to time.

The current amount of M Tech Assistantship is Rs 8,000/- per month.

4. All M Tech Institute Assistantship holders shall be required to assist the Institute by carrying out the specified work assigned to them. The work to be assigned shall be as per guidelines of MHRD and shall be monitored by the Convener PGCS or his/her nominee(s).

ii. Institute Assistantship to PhD Students

1. All regular PhD students of the Institute, except those who have been sponsored by their respective organizations, shall be awarded the Institute Assistantship.
2. Amount of the Institute Assistantship for PhD students shall be as per the directive of the Ministry of Human Resource & Development (MHRD) and may change from time to time.

The current amount of Assistantship is (a) Rs 16,000/- per month for the first two years of the programme and Rs 18,000/- per month upto 5th year for students having BE/B Tech/MSc or equivalent as the qualifying degree and (b) Rs 18,000/- per month for the first two years and Rs 20,000/- per month for the third and the fourth year for students having ME/M Tech/MBBS or equivalent as the qualifying degree for admission in the PhD programme.

3. All PhD Institute Assistantship holders shall be required to assist the Institute by carrying out the specified work assigned to them. The work to be assigned shall be as per guidelines of MHRD and shall be monitored by the Convener PGCS or his/her nominee(s).

c. Tuition Fee Waiver, i.e. Freeship

- i. All undergraduate MCM Scholarship holders shall be entitled to a tuition waiver. They shall, however, be required to pay all other fees such as gymkhana fees, hostel seat rent, etc. as per rules.
- ii. All undergraduate SC/ST students are awarded the Tuition Waiver. They may, however, be required to pay all other fees such as gymkhana fees, hostel seat rent, etc. as per rules.
- iii. An additional 10 % of students of each batch of the undergraduate programme, beyond those awarded the MCM Scholarships, may be awarded only Tuition Waiver. The following category of students may be considered eligible for such additional Tuition Waivers:
 - a. Applicants who were eligible for the award of the MCM Scholarship, but could not be awarded the same because of the non-availability of enough number of MCM Scholarships.
 - b. Under very special conditions, any other student the SPACS considers suitable for the grant of a Tuition Waiver.
- iv. Except SC/ST students of M Tech or PhD programmes, no postgraduate students are entitled for full Tuition Waiver. The Institute may, however, waive part of the tuition fee for its regular students in different postgraduate programmes.

d. Book Grant and other Grants

- i. From the funds made available by the Ministry of Social Justice and Empowerment/ Ministry of Tribal Affairs, a selected number of SC/ST students of the B Tech programme, whose parent's total annual income from all sources is within the prescribed maximum limit as, shall be given an annual book grant and other grants.

The current amount of Book Grant is Rs 3,000/- per student per annum or actual whichever is lower.

- ii. M.Tech. students and PhD students of the Institute shall be provided an annual contingency grant as decided by the Institute administration.

e. Boarding and Lodging Grants for Undergraduate SC/ST Students

For those SC/ST students of the B Tech programme, whose parents' total annual income from all sources is less than the prescribed upper limit, the Institute may give boarding and lodging charges to a maximum of (i) 10 Scheduled Castes students and (ii) 5 Scheduled Tribes students per batch awarded by the Ministry of Social Justice and Empowerment and Ministry of Tribal Affairs respectively.

The scheme, starting from 2007, grants boarding charges of Rs 2,200/- per month or actual whichever is less to students selected for the award.

Beneficiaries' data (year wise)

Merit cum Means Scholarship including tuition waiver (Undergraduate students)

B Tech	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
Batch 2010	NA	NA	NA	NA	NA	33
Batch 2009	NA	NA	NA	NA	17	28
Batch 2008	NA	NA	NA	34	29	28
Batch 2007	NA	NA	19	19	19	20
Batch 2006	NA	22	23	20	19	NA
Batch 2005	20	18	17	20	NA	NA

Central Sector Scholarship scheme for Top class education for SC/ST undergraduate students

B Tech	2007-08	2008-09	2009-10	2010-11
Batch 2010	NA	NA	NA	15
Batch 2009	NA	NA	15	7
Batch 2008	NA	15	6	7
Batch 2007	10	6	4	2

Scholarships given to postgraduate students

Duration and Name of Programme	Number of Students	Total Amount
Aug - Dec 06 (MTech)	17	85000
Jan - July 07 (MTech)	17	85000
Aug - Dec 07 (MTech)	8	40000
Aug - Dec 07 (PhD)	5	47500
Jan - July 08 (MTech)	2	10000
Jan - July 08 (PhD)	12	114000
Aug - Dec 08 (MTech/MDes)	45	350712
Aug - Dec 08 (PhD)	17	261872
Jan - July 09 (MTech/MDes)	56	456000
Jan - July 09 (PhD)	27	378000
Aug - Dec 09 (MTech/MDes)	161	1288000

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Aug - Dec 09 (PhD)	33	425000
Jan - July 10 (MTech/MDes)	226	1806461
Jan - July 10 (PhD)	42	595000
Aug - Mar 11 (MTech/MDes)	369	2994970
Aug - Mar 11 (PhD)	60	1228000

MTech/MDes (scholarship amount)

5000/- Aug. 2006 to July 2008

8000/- Aug. 2008 to till now

PhD (scholarship amount)

9500/- (year1 and year2) and 10,000/- (year3 and year4) Aug. 2007 to July 2008

14000/- (year1 and year2) and 15,000/- (year3 and year4) Aug. 2008 to Mar 2010

18000/-(year1 and year2) and 20,000/- (year3 and year4) Apr. 2010 to till now

38. No. of teachers received National / International Honors/Award

1. Dr. Prabin Kumar Padhy granted BOYSCAST fellowship by DST and visited University of Tokyo as a Researcher during July 2009 to January 2010.
2. Dr. Pritee Khanna has been invited under the "FY2011 JSPS (Japan Society for the Promotion of Science) Invitation Fellowship Program for Research in Japan (Long-term)" to conduct research with Prof. Haruo Yokota, Professor of Computer Science & Engineering, Tokyo Institute of Technology, Tokyo for a period of 8 months.
3. Dr. Asish Kumar Kundu awarded BOYSCAST fellowship by DST for year 2010-2011.
4. Dr. Rajesh Kumar Pandey awarded IASc-INSa-NASi Summer Research Fellowship – 2010 and availed at Physics & Applied Mathematics Unit, Indian Statistical Institute, Kolkata, India.

39. Average No. of days per year teaching took place

140 days in two regular semesters.

Besides this, a summer semester of 10 weeks (50 working days) runs every year during the period May-July.

40. No. of courses in which syllabi was revised

Semester I

- ES 101 Fundamentals of Electrical & Electronics (3L + 2/3T +2x2/3P)
ES 102 Engineering Literacy (3P)

Semester II

- NS 104 Applied Physics (3L + 1T)
IT 102 IT Workshop I (3P) (Matlab 4 turns + SolidWorks 8 turns)
ES103 Data Structure and Algorithms (3L+2P)

Semester III

- ES 204 Engineering Drives and Devices (2L + 2P)
IT 203 IT Workshop II (3P) (OOPs with Java OR (Matlab 6 turns + LabView 6 turns))
OR (CATIA 6 turns + ADAMS or LabView 6 turns)

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Semester IV

DS 202 Engineering Design (3L)

Semester VI

ES 313 Sensing, Control and Mechatronics

Semester VIII

EC413 Applications of Electromagnetics (1L + 4P)

Modified Course:

S.No	Old Courses	New Courses
1.	ES104 Engineering Literacy (1L+3P)	ES102 Engineering Literacy (3P)
2.	EC414 RF and Microwave Engineering (3L)	EC414 RF and Microwave Engineering (1L+4P)
3.	ES101 Fundamental of Electrical & Electronics (3L+1T)	ES101 Fundamental of Electrical & Electronics (3L+2/3T+2x2/3P)
4.	NS102 Engineering Physics I (2L+1T)	NS102 Engineering Physics I (2L+1T+2P)
5.	IT101 Fundamentals of Computing (2L+2P)	IT101 Fundamentals of Computing (2L+3P)
6.	NS104 Engineering Physics II (2L+1T+2P)	NS104 Applied Physics (3L+1T)
7.	ES102 Data Structures and Algorithms (3L+1T)	ES103 Data Structure and Algorithms (3L+2P)
8.	IT 102 IT Workshop I (3P)	IT 102 Engineering Literacy Lab (3P)
9.	Sensing Methods and Devices; Control Systems; Signals, Systems and Networks	ES313 Sensing, Control and Mechatronics

41. Co-curricular and extra-curricular activities

IIITDM Jabalpur emphasizes on several extra-curricular activities in addition to its rigorous academic activities. Our students participate in various technical, sports and cultural festivals organized by different institutes like IITs, IIITs, etc. and secure commendable positions.

Sports Activities- GUSTO

Gusto is the annual sports festival being organized by the students of our institute every year by the leadership of sports secretary, elected by student gymkhana election. The elected sports secretary builds a team of sports coordinators who help him/her in managing various activities like organizing the events, selection of captain and the players, etc. Sports secretary and his/her team of sports coordinators are being advised by the faculty-in charge of sports and coordinator of student affairs and required administrative and financial supports are also being provided by the institute.

Cultural Activities- TARANG

The students of IIITDM Jabalpur organized the 4th annual cultural festival TARANG from March 11-13, 2011. There were various competitions of quiz, debate, extempore, mono acting, solo dance, dance, music, dramatics, literary events, art & crafts, the rock band competition, etc. The event concluded with a gala musical night performed by Ms. Hard Kaur.

M/L

D/E

Sno

Sno

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More than 1000 students from various Institutes and colleges from various parts of the country and Jabalpur had participated in various events. It is important to mention that our students secured various trophies and prizes in almost all the events.

Technical Activities- ABHIKALPAN

Abhikalpan is the annual Technical festival being organized by the students of our Institute every year. This annual technical festival was held from September 10-12, 2010. During the festival, the students conducted workshops on Nastran/ Patran softwares and on Linux & Python.

42. Growth in infrastructural facilities since the conferment of Deemed University status.

42.1 Infrastructure

After the first visit of the UGC expert committee, following milestones have been achieved for development of infrastructure.

Building – The Institute has shifted to its own campus. Following buildings/works have been completed /nearing completion /under progress –

S. No.	Name of building /work	Area	Status
1	Sanjeev Bhargava Core Lab Complex	4320=00 Sqm	Completed and functional
2	Hall of Residence 1 (Capacity 408 students)	1075=00 Sqm	Completed and functional
3	Hall of Residence 3 (Capacity 498 students)	11898=00 Sqm	80% Completed and partly handed over for use
4	Service block (electric substation)	247=00 Sqm	Completed and functional
5	Workshop Annexe	558=00 Sqm	Completed and functional
6	Temporary Lecture Hall (Capacity 300)	248=00 Sqm	Completed and functional
7	Design Display Unit	248=00 Sqm	Completed
8	Mechatronics Lab	218=00 Sqm	Completed and functional
9	Security Block	471=00 Sqm	To be completed before July 2011
10	Lecture Hall and Tutorial Complex	10555=00 Sqm	Tender invited by CPWD
11	Hall of Residence 4	12262=00 Sqm	Tender finalized by CPWD. Work to be awarded soon
12	Mess and Dining Hall (Capacity 2000)	3543=00 Sqm	Work in progress
13	Visitors' Hostel (guest House)	3670=00 Sqm	Work in progress for inviting tender (by CPWD)
14	Post graduate hostel (Phase 1 – married students accommodation)	5550=00 Sqm	Work in progress for inviting tender (by CPWD)
15	Road network (Phase 1)	11400=00 Sqm	Work in progress for inviting tender (by CPWD)