

FC NO - 7th

AGENDA OF THE
FC MEETING HELD
ON NOVEMBER
20, 2007

Agenda for the 2007-08 2nd Meeting of the Finance Committee

| S No | Item | Page No |
|----------------|--|----------------|
| 2007-08: 02.01 | Overview Report of the Director | 1 |
| 2007-08: 02.02 | Confirmation of the Minutes of the Meeting held on January 03, 2007 | 8 |
| 2007-08: 02.03 | Consideration of Annual Accounts of 2006-07 and Recommendation to the Board for its Adoption. | 19 |
| 2007-08: 02.04 | Special Measures to be Adopted by the Institute during Incubation Period for its Growth and Smooth Functioning | 51 |
| 2007-08: 02.05 | Special Measures to be adopted for giving TA/DA to students | 53 |
| 2007-08: 02.06 | Consideration of Modified Fee Structure for Undergraduate Course. | 54 |
| 2007-08: 02.07 | Appointment of Adjunct Faculty in the Institute | 57 |
| 2007-08: 02.08 | Consideration of recommendations of the Building & Works Committee (B&WC) held on 3 rd July, 2007 | 58 |
| 2007-08: 02.09 | Any other Item with the permission of the Chair | 59 |

A. ACADEMICS

- **Strength of Faculty Members and Research Engineers in the Institute:**

Institute is happy to inform the Board that efforts made in last one year have attracted good candidates for the positions of Faculty Members and Research Engineers. Excluding Emeritus Professor, the Faculty strength of the Institute has reached 17 with 2 Professors, 4 Associate Professors, 7 Assistant Professors and 4 Visiting Faculty. There is one candidate for the position of Professor and 3 candidates for the positions of Assistant Professor, who were selected by the respective Selection Committee, but have asked for extension of the date for joining the Institute. It is hoped that they would be joining the Institute soon. Similarly, the positions of 4 Research Engineers (Grade I) have been filled. Names, professional details and areas of interest and specialization of (i) the faculty members and (ii) Research Engineers are given as **Annexure I** of this Overview Report.

The list of Guest Faculty Members is also enclosed in the **Annexure I**.

- **Progress Towards the Indo-Japanese Cooperation:**

1. On the request from the Japanese side, a short visit to Japan was made by the Director from July 11 – 14, 2007. A meeting on July 12 was held in the Ministry of Foreign Affairs in which the following twelve **Japanese Consortium Partners for IIIDMJ** were finalized:

From Academic Institutions and Universities

- University of Tokyo
- Tokyo Institute of Technology
- Tohoku University
- Kyushu University
- Kanagawa Institute of Technology
- Shibaura Institute of Technology

From Japanese Industries

- M/s Hitachi Ltd
 - M/s Toshiba Ltd
 - M/s Sumitomo Metals
 - M/s Okuma Ltd
 - M/s AMADA Ltd
 - General Electric (Energy), Japan
2. A team of 5 faculty members of IIITDMJ shall be visiting Japan in the month of December 2007. The constitution of the team of faculty members was decided by the Committee headed by Prof Aparajita Ojha.
 3. Four faculty members from the University of Tokyo will be visiting IIITDM Jabalpur in the month of January for a period of one week. During this period they will be giving lectures in courses related to: "**Computer Graphics, Simulation & Visualization**" and "**Control Systems: Theory, Software and Hardware**".

B. CONSTRUCTION ACTIVITIES

- a. **Temporary Construction Activities in the IT Bhawan of the Jabalpur Engineering College**

With the admissions of the 3rd batch of B Tech students in August 2007, the requirement of space for the required number of class rooms and laboratories had increased. Since the space provided to the Institute by the Jabalpur Engineering College in its IT Bhawan was inadequate, the Finance Committee and the Board had given the approval in its meeting held on 3rd January, 2007, to go for temporary construction of class rooms, laboratory space and faculty offices on the 2nd floor of the building.

Accordingly, the construction activities for a Lecture Room with the capacity of 125 seats, a laboratory space where ~ 80 students can work together, another laboratory space where ~ 40 students can work together, offices for ~ 15 faculty members were initiated. Construction for a Mechanical Engineering Workshop on the ground floor was also undertaken. Construction work for the new Lecture Room and the laboratory space for 80 students and 10 faculty offices could be completed before the new batch of students were admitted. Construction work related to other activities will be completed by the end of November 2007.

b. Repair and Maintenance Activities in Hostel VIII of the Jabalpur Engineering College

With fresh admissions in August 2007, the additional requirement of the hostel accommodation for both undergraduate as well as postgraduate students of the Institute had been created. Hostel VIII of the Jabalpur Engineering College, which was earlier identified as the temporary Hall of Residence for the students of IIITDMJ, was not in a good condition and, if to be used, had required considerable amount of repair and maintenance work. Since no other venue was available near the Institute on the rental basis for the accommodation of students, the Institute had sought the permission to undertake the repair and maintenance work for Hostel VIII of the JEC from the Finance Committee and the Board in the meeting held on 3rd January, 2007. The Board is informed that the same was undertaken and completed before the new admissions were made in August 2007.

c. Construction Activities in the Institute Campus at Dumna

Construction of three buildings, namely (i) Hall of Residence I, (ii) Core Labs Complex (CLC) and (iii) Service Block, is under progress. Due to some internal factors, the pace of construction is somewhat slow. However, efforts are being made to see that the Institute starts functioning from its own campus from August 2008.

As per requirement of the Board, the exercise of having a panel of architects, rather than a single architect, has been completed (included as a separate agenda item). It is hoped that campus based construction activities will now move more efficiently.

C. STUDENTS WELFARE AND RELATED ACTIVITIES

• Distribution of Notional Prizes and Certificates of Merit:

In order to give recognition to meritorious students for their excellent academic performance from each undergraduate batch, the Senate of the Institute recommends that

"Notional Prizes and Certificates of Merit shall be awarded to 7 percent of the students of each undergraduate batch for excellent academic performance in an academic year. In the first two years, the 7 percent shall be calculated for

the entire B Tech batch, whereas for the third year the award shall be made for each discipline taking into account their respective strengths."

The Institute decided to start a function for the distribution of Notional Prizes and Certificates of Merit from this year on the occasion of Teachers' Day, i.e. on September 05 every year. The function was accordingly organized on September 05, 2007.

• **Holding of English Proficiency Development Classes:**

Though the Institute's curriculum has a compulsory course on communication skills in English, the results collated by the Academic Performance Evaluation Committee of the Senate suggest that the course by itself does not provide sufficient opportunities for developing communication skills in English. Such findings are especially true for those students who come from weaker economic background.

On the recommendation of the Senate, the Institute from this year has started special English Proficiency Development course for such students. The course is run outside the purview of the regular curriculum and is offered to students on a voluntary basis. The Convener of the Undergraduate Committee of Senate (UGCS) recommends the names of students who are advised to attend classes for the course. Students who are advised but wish to abstain from the course are required to give a declaration that in case of inadequate academic performance they will not complain lack of comprehension in classes due to English being the medium of instructions at the Institute.

ANNEXURE I

Current Status of Faculty Members at IITDM Jabalpur

(November 20, 2007)

| PROFESSORS | | | |
|-----------------------------|-----------------------|---|---|
| No | Name | Professional Details | Areas of Interest & Specialization |
| 1 | Prof Sanjeev Bhargava | PhD from IIT Kanpur, working experience in Germany, formerly Professor, Dean of Students and Head of the Department at IIT Kanpur | Materials based Advanced Manufacturing Processes, Optimization of Processing Parameters in Powder based Manufacturing, Titanium Alloys, Superalloys, Intermetallics and other High Temperature Materials. |
| 2 | Prof Aparajita Ojha | PhD from RDVV Jabalpur, Former Professor at RDVV Jabalpur | Geometric Modeling, Computer Aided Geometric Design, Finite Elements, Spline Theory, Approximation Theory, Wavelet Analysis, Reconstruction of signals |
| ASSOCIATE PROFESSORS | | | |
| No | Name | Professional Details | Areas of Interest & Specialization |
| 1 | Dr Puneet Tandon | PhD from IIT Kanpur, formerly a faculty member at NIT Kurukshetra | Geometric Modeling for Design, Engineering & Manufacturing; Conceptual Design, Product Innovation, Design and Development; Mechatronics; Rapid Prototyping & Tooling, Reverse Engineering, NC programming; Tool Design etc. |
| 2 | Dr Tanuja Sheorey | PhD from IIT Kanpur, formerly a faculty member at Government Engineering College Jabalpur | Algorithm development and numerical analysis, Mathematical modeling of flow through porous media; Domain decomposition and Parallel computation, Exhaust emission control from automobiles. |
| 3 | Dr Vijay Kumar Gupta | PhD from IIT Bombay, formerly a faculty member at Kota Engineering College | Smart Structures, Machine Design, Finite Element Methods |
| 4 | Dr P Rajesh Kumar | PhD from IIT Madras, formerly a faculty member at RVR & JC College of Guntur | VLSI Design, Hardware-Efficient Algorithms for Robotics and Image Processing, Design and Implementation of FPGA-based Solution. |

ASSISTANT PROFESSORS

| S.No | Name | Professional Details | Areas of Interest & Specialization |
|------|-----------------------|---|---|
| 1 | Dr Prittee Khanna | PhD from Kurukshetra University, formerly a faculty member at NIT Kurukshetra | Computer Graphics, Geometric Modeling, Computer Aided Design, Computational Geometry, Haptic Modeling, Biometrics, Data Structures, DBMS. |
| 2 | Dr Subir Singh Lamba | PhD from IIT Kanpur | Parallel Computing, Computational Fluid Dynamics, Hyperbolic IBVP, Spectral Methods. |
| 3 | Dr Mukesh Kumar Roy | PhD from IIT Kanpur | Formation and characterization of magnetic nano particles; magnetic multilayer; (iii) immiscible magnetic alloys, Low Cost Science Teaching Methodologies. |
| 4 | Dr Prabin Kumar Padhy | PhD from IIT Guwahati | Automatic Controller Tuning, Identification and Control of Processes. |
| 5 | Dr M Ravibabu | PhD from IIT Delhi | Material Analysis by Thermal Wave Imaging; Optical Techniques for Non-destructive Measurements; Ultrasonic Imaging; Radiography; Instrumentation for Non-destructive Measurements |
| 6 | Dr Chella S Sastry | PhD from IIT Kanpur, Post-Doctoral experience in Canada | Wavelets and Multiresolution Methods, Computerized Tomography in different Data Acquisition Geometries, Information Retrieval, Network Traffic Analysis for Anomaly Detection, Sparsity-Promoting Optimization Techniques, Feature Extraction from Large Image Databases. |
| 7 | Dr Santosh Singh | PhD from IIT Kanpur, Post-Doctoral experience in Canada | Digital Signal Processing, Image Processing, Adaptive Signal Processing, Digital Filter Banks, Multirate Signal processing, Wavelets, Multidimensional Signal Processing, Super Resolution, Image Restoration, Image Segmentation, Linear Algebra, Numerical Analysis, Applied Functional Analysis and Computer Vision. |

