

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous Institute Affiliated to R.G.P.V., Bhopal, M.P.)

Date: 26th April, 2018

Minutes of the Academic Council Meeting

The meeting of the **Academic Council (AC)** was held on **26th April, 2018** at 11.30 A.M. in the Autonomy Cell of the institute.

The meeting was chaired by **Dr. R. K. Pandit**, Director of the Institute. **Shri Prashant Mehta**, IAS, Member, Board of Governors was present in the meeting as nominee of the Chairman, Board of Governors of the Institute, **Er. Ramesh Agarwal** as the Secretary, Scindia Engineering College Society, Gwalior and **Dr. Mohan Sen**, as **Special Invitee from RGPV Bhopal**.

Out of the four members nominated by the Board of Governors, **Dr. S. G. Deshmukh**, Director, ABV-IIITM Gwalior, **Dr. Rommel Mehta**, Professor School of Planning and Architecture (SPA), New Delhi and **Dr. D. D. Agrawal**, Professor, Jiwaji University, Gwalior attended the meeting while **Dr. Dharmendra Kumar**, Professor, Computer Science and Engineering, G.J. University Hisar, could not attend the meeting.

All the three nominees of the honourable Vice Chancellor of RGPV, **Dr. S. K. Jain**, Registrar, RGPV, **Dr. R. S. Rajput**, Director, UIT Bhopal and **Dr. Rajesh Bhargava**, Dy. Registrar (Acad.), RGPV, Bhopal could not attend the meeting.

The Director, Directorate of Technical Education (DTE), M.P., Bhopal or nominee did not attend the meeting.

The following internal members attended the meeting:

S. No.	Name	Designation	Status in AC
1.	Dr. R. K. Pandit	Director	Chairperson
2.	Dr. Manjaree Pandit	Professor (Electrical Engineering) & Dean (Academics)	Member
3.	Prof. L.K. Jain	Professor, Architecture	Member
4.	Dr. Laxmi Srivastava	Professor & Head, Electrical Engineering	Member
5.	Prof Archana Tiwari	Professor & Head, Civil Engineering	Member
6.	Dr. P. K. Singhal	Professor & Head, Electronics Engineering	Member
7.	Dr. R.S. Jadon	Professor & Head, Computer Applications	Member
8.	Dr. Abhay Mishra	Professor & Head, Applied Sciences	Member
9.	Dr. Alok Sharma	Professor & Head, Architecture	Member
10.	Dr. Pratesh Jayaswal	Professor, Mechanical Engineering	Member Secretary
11.	Dr. Manish Kumar Sagar	Professor & Head, Mechanical	Member

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		Engineering	
12.	Dr. Akhilesh Tiwari	Professor & Head, CSE & IT	Member
13.	Dr. Shriram Prasad	Associate Professor & I/C Head, Chemical Engineering	Member
14.	Dr. Sunita Sharma	Coordinator, Biotechnology	Member
15.	Prof. Deepak Rastogi	Associate Professor, Civil Engineering	Member
16.	Dr. Sanjeev Khanna	Coordinator, Humanities	Member
17.	Prof. Prabhakar Sharma	Assistant Professor, Computer Applications & In-charge, Central Computer Center	Member

The following deliberations took place in the meeting.

- The minutes of the previous Academic Council meeting held of 23rd September, 2017 were confirmed and efforts made towards its compliance were appreciated.
- The **Minutes of Boards of Studies (BoS)** were presented by the Chairpersons and approved by the House for the following Departments:
Civil, Mechanical, Electrical, Electronics, Computer Science & Engineering and Information Technology, Chemical Engineering, Bio-technology, Automobile Engineering, Electronics and Telecommunication, Architecture, Computer Applications, Applied Sciences & Humanities.

Discussion on Flexible Scheme Structure (to be implemented w.e.f. Academic Year 2018-19)

- The **Flexible Scheme** for First Year to Final Year of all B.Tech & B. Architecture Programmes was discussed and approved for implementation w.e.f. Academic Year 2018-19.
- **Syllabi of First Year (I & II Semester) and Second Year (III & IV Sem.) of all UG programmes was discussed, finalized and approved. This will be effective from Academic Year 2018-19.**
- **For students admitted in Academic Session 2017-18, this curriculum will be implemented from 3rd Semester onwards and for students admitted in academic session 2018-19, this will be effective from 1st semester itself.**
- In order to be eligible for the award of **Under Graduate Degree in Engineering / Technology & Architecture**, it is required to earn minimum **170 & 260 Credits respectively**. Moreover, students will only be eligible to get Under Graduate Degree with **Honours or Minor Specialization** (relating to other fields of **Engineering, Technology, Applied Science, Management** etc.), if they **earn 20 & 24 extra credits** in addition to the compulsory credits required to obtain the B.Tech & B.Architecture degree respectively.
- The total credits required for the students admitted in **Academic Session 2017-18** for obtaining **B.Tech & B.Architecture degree** are **189 & 251** respectively. Therefore, the B.Tech & B.Architecture students of 2017-18 admitted batch are required to earn **209 (189+20) & 275 (251+24) credits** respectively to get **Honours or Minor Specialization**.

The total credits required for students admitted in **Academic Session 2018-19** for the award of **B.Tech & B.Architecture degree** are 170 & 260 respectively. Therefore the B.Tech/B.Architecture students of 2018-19 admitted batch are required to earn **190(170+20) & 284(260+24) Credits** respectively to get **Honours or Minor Specialization**.

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- **These additional credits may be acquired through SWAYAM /NPTEL / MOOC platform based learning.** There is a provision from 5th semester onwards for the students who desire to opt for additional courses in order to earn the 20 additional credits required for honours or minor specialization. However, no student will be permitted to register for honours or minor specialization after completion of the bachelors degree.
- It is decided to create different **Tracks of Specialization** to orient the students according to their interest & career focus so that they can proceed for additional courses in the desired field for the fulfilment of requirement of Honours or Minor Specialization.
- It is decided to offer the mandate provision of **Three (03) Internship Programmes**, as per the following and credits to be added at the time of evaluation in the appropriate semester.

S.No.	Detail	*Minimum Hours	Year (in which Internship to be offered)	Evaluation
1.	Summer Internship Project-I (Institute Level)	60 Hours	First Year	III Semester (02 Credits)
2.	Summer Internship Project-II (Soft Skills)	90 Hours	Second Year	V Semester (03 Credits)
3.	Summer Internship Project -III (On Job Training)	150 Hours	Third Year	VII Semester (02 Credits)

**Required Hours can be accomplished by dividing the time duration in possible slots during vacations (summer/winter).*

- As per the mandate of UGC/AICTE, it is decided to include **Ethics, Environmental Science, Disaster Management, Intellectual Property Rights (IPR) and Cyber Security as Mandatory Courses (MC)** at appropriate places in the scheme. The credit distribution for these Mandatory Courses will range from two to three Credits and will be counted within **170 Credits for B.Tech & 260 Credits for B. Architecture Programme.**
- The maximum number of credits that can be earned through SWAYAM /NPTEL / MOOC platform based learning (for DE and OC Courses) will be sixteen (16).
- It is also decided to possibly maintain the uniform credit distribution pattern across all the UG disciplines/programmes. Moreover, maximum number of credits that can be allotted to a course (including Lecture, Tutorial, Practical) should not exceed four (4) credits. There can be maximum five courses in one semester (An exception can be permitted when MC courses are to be accommodated).
- Beginning with academic year 2018-19, there will be an **Induction Programme of three (03) weeks** duration for the **First Year Students** before the beginning of regular teaching schedule. The induction programme will include- **Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Department/Branch & Innovations, Foundation Courses** etc. The schedule for this activity will be prepared according to the AICTE mandate

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issued in January 2018. In view of the three weeks time required for this activity, the credits of 1st & 2nd Semester have been kept as 21 & 20 respectively.

- It is decided to keep '**Biology for Engineers**' and '**Indian Constitution & Traditional Knowledge**' as **Audit Courses in second year and third year respectively**. It is compulsory for a student to acquire the specified credits in these courses by securing the minimum pass marks. However, these credits will not be counted in the total credits.
- It is decided to make the provision of **Departmental Elective (DE) Courses** (in the form of pool of courses) from 3rd year onwards. Care will be taken that there is no repetition of content in **Departmental Core (DC)** and DE courses. The list of DE courses will be dynamic and will be finalized by the BoS keeping in view the latest developments and trends. The same will be discussed and finalized in the next meeting.

- It is decided to make a provision for **Inter-departmental Electives / Open Category (OC) Courses from third year onwards**. These Courses will be divided in Groups (at least four Groups); Group A, Group B, Group C, Group D, Group E, etc. Moreover, Open Category (OC) Groups will be formed by consolidating Open Category Courses from each department and making them available with labels, such as Group A, Group B and so on.

It is further discussed that these courses must be offered by each department on the same day/time slot so that students from any department can opt for Open Category (OC) Course offered by any other disciplines/programmes.

It is recommended to offer five (05) Open Category (OC) Courses to give the students enough scope and choice to opt for inter-departmental courses as per their interest/ emerging trends pertaining to different disciplines while retaining the essence & flavor of Departmental Core (DC) courses.

It was also decided that the **pre-requisite for the courses offered under the OC category should be clearly mentioned by the offering department** to facilitate the students of other departments to opt for these electives according to their aptitude, interests and career aspirations.

- The list of OC courses to be offered from 6th Semester onwards will be decided at the institute level after discussion among different BoS and will be put for approval of the house in the next meeting.
- It is decided that there should be a provision of Virtual Lab to be conducted along with the traditional labs.
- **It is decided to make the 8th semester of B.Tech programme completely flexible by keeping provision for all courses to be taught through SWAYAM/ NPTEL/ MOOC platform.**

In addition, student will be given the **flexibility to opt either for Internship or for Major Project**. It is also recommended that initially the mode of examination for the courses taught through SWAYAM/ NPTEL/ MOOC platform will be as per the current examination practice of the institute (i. e. through end term examination, till all modalities of credit transfer are finalized at university / AICTE level).

- **Shri Prashant Mehta, IAS, Member, Board of Governors** has suggested offering the mandatory course- Cyber Security at the 2nd Year level. He also suggested making a

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provision for a **Management Track**, so that students can opt for minor specialization in the management discipline.

- **Special Invitee from RGPV Bhopal Dr. Mohan Sen**, apprised that RGPV Bhopal is commencing the development of Sixteen MOOC courses and MITS Gwalior will be given the opportunity to develop minimum one or two MOOC courses. Financial assistance of up to Rupees 1.5 Lac will be extended by RGPV Bhopal to meet out the related requirements (in terms of recording facility infrastructure/ other resources).
- **Dr. S. G. Deshmukh, Director ABV-IIITM Gwalior** suggested renaming 'Idea Generation' as 'Creative Problem Solving', wherein students will be asked to deal with current problems of society by proposing innovative solution approaches. The detailed guidelines for conducting this course and its evaluation will be prepared and presented in the next meeting.

Dr. Deshmukh also suggested allotting credits to the participation of students in different National/International technical competitions/events such as Baja SAE, ROBOCOM, NASA etc., thereby making the participation mandatory.

The House accepted this suggestion and it was decided to make a provision of 'One Credit' at the 8th semester for 'Innovative Technical Contribution'. **The evaluation for this will be based on participation/laurels brought by the students to the institution at National/ International level technical events during the entire tenure of the UG programme.** The detailed guidelines for evaluation will be prepared in due course of time and will be presented in the next meeting.

Discussion on Schemes & Syllabi of B.E. VII & VIII Semester & B.Architecture (New Grading System)

- There was a discussion on the recommended scheme & syllabus of 7th & 8th Semester UG programmes offered by all the departments, under the new grading system (applicable for the students who were admitted in Academic Sessions 2015-16 & 2016-17 under the then existing CBCS scheme).

The proposed schemes & syllabi for Civil, Mechanical, Electrical, Electronics, Computer Science & Engineering, Information Technology, Chemical Engineering, Bio-Technology, Automobile Engineering, Electronics & Telecommunication and Architecture, have been approved by the Academic Council.

Consideration of M.E./M.Tech/M.Arch/MUP Schemes for approval of new course codes

- As per the recommendation of respective BoS, schemes of M.E./ M.Tech/M.Arch/MUP (3rd & 4th Semester) with new course codes have been approved.

Discussion regarding the Ordinance of Masters in Urban Planning (MUP)

- As no specific ordinance is available for Masters in Urban Planning (MUP), it is decided to govern the MUP programme by the ordinance available for M.E./M.Tech/M.Architecture programmes till the framing of separate ordinance by the RGPV Bhopal.

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Constitution of Board of Studies of Newly Approved PG Programme in Product Design

- It is decided to constitute an acting Board of Studies for newly approved PG Programme in Product Design, as per the following proposed constitution
 1. Dr. R. K. Pandit (Chairman)
 2. Dr. Manjaree Pandit (Dean, Academics)
 3. Dr. Alok Sharma (Professor & Head, Architecture)
 4. Dr. Pratesh Jayaswal (Professor, Mechanical Engineering)

External Experts

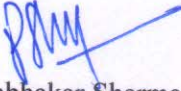
 5. Prof. Ravi Hazra, Professor, Industrial Design Centre (IDC), IIT Bombay
 6. Prof. B. K. Chakravarthy, Professor, Industrial Design Centre (IDC), IIT Bombay
 7. Prof. L. K. Das, Former Professor, IIT Delhi


This BoS is empowered to frame the scheme and syllabi of the new PG Programme in Product Design for implementation w.e.f. Academic Session 2018-19. The same will be presented before the House for ratification in the next meeting.


Any other matter

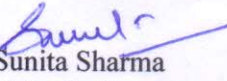
- As per the guidelines of University Grants Commission (UGC) New Delhi, published in January 2018, the tenure of nominated members/experts of BoS and Academic Council will be for Three Years duration.
- In connection with the proposed Induction Programme for First Year students, Director of the institute apprised that eleven faculty members including Dean, Student Welfare have been trained for the effective conduction of the Induction Programme. From the coming academic session, the same will be arranged in the way suggested by the training house.
- Director of the institute also apprised regarding the progress of examination cell digitization work. As per the target, from the current examination i.e. April-May 2018, partial evaluation of answer sheets will be done in the digital mode on pilot basis.
- Institute is going to make a practice of publishing / displaying model answer scripts from the current examination (i.e. April-May 2018). Moreover, the model answer scripts will be made available after the conduction of examination, on the same day.
- Any amendments or guidelines issued by the affiliating university R.G.P.V. Bhopal/Competent Authority hereafter in connection with the regulations pertaining to the Flexible Curriculum will be deemed to be the part of this document.


Meeting ended with vote of thanks to the Chair.

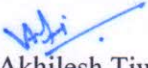

Prof. Prabhakar Sharma
(Member)


Dr. Sanjeev Khanna
(Member)

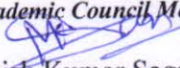

Prof. Deepak Rastogi
(Member)



Dr. Sunita Sharma
(Member)

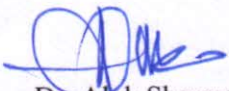

Dr. Shriram Prasad
(Member)

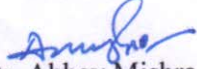

Dr. Akhilesh Tiwari
(Member)

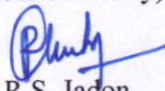




Dr. Manish Kumar Sagar
(Member)

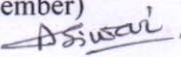

Dr. Pratesh Jayaswal
(Member Secretary)


Dr. Alok Sharma
(Member)

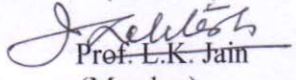

Dr. Abhay Mishra
(Member)

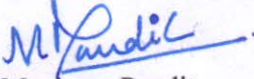

Dr. R.S. Jadon
(Member)

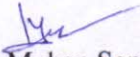

Dr. P. K. Singhal
(Member)

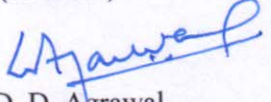

Prof. Archana Tiwari
(Member)


Dr. Laxmi Srivastava
(Member)

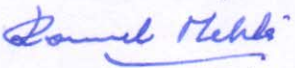

Prof. L.K. Jain
(Member)

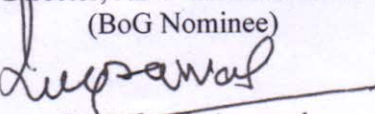

Dr. Manjaree Pandit
(Dean Academics)

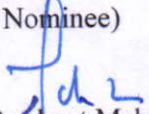

Dr. Mohan Sen,
Special Invitee,
RGPV Bhopal

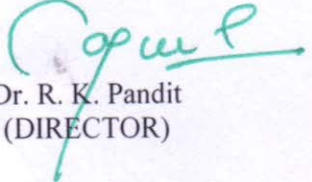

Dr. D. D. Agrawal,
Professor
(Jiwaji University, Gwalior)


Dr. S. G. Deshmukh,
Director, ABV-IIITM Gwalior
(BoG Nominee)


Dr. Rommel Mehta
Professor, SPA, New Delhi
(BoG Nominee)


Er. Ramesh Agarwal
(Secretary, S.E.C.S., Gwalior)


Shri Prashant Mehta
(Member, Board of Governors)


Dr. R. K. Pandit
(DIRECTOR)