

PROCEEDINGS OF JOINT BOARD OF STUDIES MEETING

Date: 18th October, 2022, Time: 11.00 AM,

Venue: VTU's Regional Office, Bengaluru

Minutes:

Dr. A S Deshpande, Registrar welcomed Hon'ble Vice Chancellor Dr. S. Vidyashankar, Dean - Dr. B Sadashivegouda, Principals of Autonomous College and Chairpersons of various boards of studies and special invitees. He briefed about the agenda of the meeting i.e. to revamping scheme and syllabus of the I year UG programmes to be implemented from the academic year 2022-23 and requested Hon'ble Vice Chancellor to address the members.

Hon'ble Vice Chancellor Dr. S. Vidyashankar once again welcomed the members and put forth the main purpose of the meeting. He informed member that an informal meeting has already been conducted on 14-10-2022 with the chairpersons of all Boards of Studies. It has already been informed to the members that as per the request / directions of State Government, a few changes syllabus in I year UG programmes is required to be carried out. State Government has conducted a meeting 12th October, 2022 and Hon'ble Vice Chancellor along with Dean has attended this meeting. The Commissioner Collegiate Education Government of Karnataka and Vice Chairman of Karnataka State Higher Education Council have also attended the said meeting.

Hon'ble Vice Chancellor informed the august gathering that the industries are of the opinion that only 10% of VTU graduates are eligible for the jobs offered by them . This is mainly because of the content of syllabus the student studies at their graduates level is not as required by the industries or employers. The main stake holder of the University are students and the University has to make it's best efforts to offer syllabus, so that after graduation, these students will be ready to be accepted and absorbed by the industries. Further, in the online conducted on 14th October, 2022 , the JBOS was the opinion that a cluster of subjects may be created and programme oriented subject are to be framed.

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Hon'ble Vice Chancellor requested Dean to present he comparative study of syllabus offered by various Indian, Foreign, Deemed University and institutions of National importance and also autonomous colleges.

Dr. B Sadashive Gowda, Dean Faculty of Engineering, VTU, presented the following:

- a) Consolidated Comparative Study of Basic science courses in foreign universities and VTU Curriculum with observations- Annx - I
- b) Consolidated Comparative Study of Basic science courses in Indian Institutes / universities and VTU Curriculum with observations - Annx - II

Foreign Universities :

- Most foreign universities offer Physics, Chemistry based on the stream, others have optional
- All the foreign universities have discipline-specific Mathematics
- Humanity & social sciences are also offered
- Europe Universities admit candidates who have passed A (Advanced) level programmes to under Graduates programmes. And it's known fact that A level programmes is much higher than Karnataka PUC syllabus.
- The curriculum varies from One University to other University in USA.

Requirements :

- AICTE mandates 25 credits from Basic Sciences
- MS degrees in USA/UK/Australia needs 20 to 25 credits of Basic Science subjects
- GATE preparation needs strong fundamentals
- Product based companies needs application-level Mathematics

Summary:

1. Indian University : 90% of Universities have Physics and Chemistry and Mathematics Mandatory
2. IITs and NIT's: Physics and Chemistry , Mathematics and Discipline Specific Basics Sciences

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3. Foreign Universities: Stream wise Physics and Chemistry, discipline specific Mathematics, Humanity and Social Science are offered
4. STEM: In the world wide scenario, this is important. Indian Students are threat to Foreign Countries, because Indian students have strong knowledge in the basics subjects.
5. We must have 20 to 25 credits for basics sciences subjects failing which our students will not be eligible seek admission to masters programme of foreign Universities.
6. It is the need of the hour that Basic science curriculum has to be revamped
7. Branch specific curriculum has to be framed.
8. The revised curriculum should have more lab components. Lab component for Mathematics
9. Faculty up skilling on a regular basis

After the summary, Dean requested each member to provide their opinion. The members present in the meeting expressed their opinions.

The consolidation opinion is as below:

1. Change in curriculum is required.
2. Clusters of Physics, Chemistry and Mathematics courses which can be taught throughout the four year degree programme may be made.
3. Discipline / programme specific basic science subjects may be introduced
4. Cluster of discipline-wise basic science subjects may be framed.
5. Application based Physics and Chemistry subjects are to be taught
6. Mathematics is mandatory subjects for any Engineering Branch and Mathematics may be taught with laboratories
7. Interdisciplinary approach in true spirit may be introduced
8. Integrated Physics and Chemistry may be introduced.

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Hon'ble Vice Chancellor:

An expert Committee will be constituted and the Committee will give it's report . The same will be discussed with the Principals of all Colleges. He expressed that the members of University's Joint board has vast experience and that has to converted into new beginning.

Dr. B Sadashive Gowda, presented the vote of thanks.

DEAN FACULTY OF ENGINEERING

VICE CHANCELLOR