

23rd ~~May~~ ^{MAY}, 2019

A meeting on Board of Studies in Petroleum Engineering was held on 23rd May, 2019 following members were present in the meeting.

Prof. R. K. Vij	Director- Special Invitee
Prof. Anirbid Sircar	Member-BOS
Dr. Bhawanisingh G. Desai	Chairman BOS
Prof. Pradeep Jadhav	MIT Pune, Academic Expert
Prof. AvinashThakore	ONGC (Retd), Industry Expert
Prof. Vivek Pandya	Expert from Other Department
Dr. Ashish Sarkar	Special Invitee
Mr. S. S. P Singh	Special Invitee
Mr. G. S. Negi	Special Invitee
Dr. N. Madhavan	Special Invitee
Dr. P Shivakumar	Special Invitee
Dr. P Shivashankar	Special Invitee
Dr. R. Balasubramanian	Special Invitee
Dr. AchintaBehra	Special Invitee
Dr. Manan Shah	Special Invitee
Dr. VivekRamalinagam	Special Invitee
Mrs. NamrataBisht	Special Invitee
Mr. Hari Ganesh	Special Invitee
Mr. Rahul Saha	Special Invitee
Mr. Mahesh Patel	Special Invitee

Leave of Absence was granted to Dr. Uttam K. Bhui (Member-BOS)

The meeting started with the

- Introduction of new course in M. Tech on well stimulation: Conventional & Unconventional Reservoirs LTP-2-0-0, credit 2 (Annexure-I): the detailed course structure along with faculty who will be teaching online was also discussed.



- b) The courses which will be dropped (namely Numerical methods and computer programming- 3-1-0; Credit-4; Advanced Process Dynamics and Control- LTP-3-1-0; Credit-4) to accommodate this new course was also discussed and agreed upon.
- It was brought to the notice to the house by the expert that no proprietary software name should be mentioned in the syllabus name.
 - Faculty member pointed out that some part of the proposed courses is covered in the production course and should be relooked.
- c) Restructuring of the M.Tech course was also discussed, it was felt that course on Geology may be given to the students
- It was first proposed that the foundation course on geology may be given 15 days however the expert feel course to be introduced as "Geology in Reservoir description" committee felt that the content can be worked out and the course will have two components (Theory of LTP 300 and Practical of 001).
- d) In the M. Tech Petroleum Technology faculty from Electrical engineering department that suggested that course name of "Introduction to electrical engineering and instrumentation" instead of "electrical circuit theory" the chairman BOS requested Electrical engineering department to provide detailed syllabus for the same.
- e) The next agenda which was taken of minor course to be offered to the other department. The list of the courses to be offered to other departments is attached (Annexure-II). It was debated that for teaching minor course for students from other departments, monetary benefits may be given to the faculties teaching the courses. The detailed syllabus for these courses which will be provided as a basket to the external department has a Credit 4 (LTP= 4-0-0).
- External expert suggested that the course credits in this new honors courses should be robust in nature.
- f) The next agenda discussed was about Honors courses to be taken by the B. Tech Petroleum Engineering students may be clustered in (a) exploration (b) reservoirs, (c) production (d) drilling and (e) miscellaneous. The courses to be offered was debated extensively, including the overlapping topics studied by the students in normal courses. It was thought and agreed upon after lot of deliberations to remove some of the proposed honors courses. Expert suggested addition of some new honors courses

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including Well site geology, Drilling fluid, casing and Cementation, Petroleum resource management system and Big data analytics for Oil industry. The final list of courses is given in the list (Annexure-III).

- g) Detailed course contents of the proposed honors courses need to be looked into once more to see the Synergy and differences between the already structured courses within the regular syllabus.
- h) Next agenda which was taken upon was the new B. Tech degree course to be introduced from next academic year. The discussion was on insistence of improving the number of student admission in SPT. The proposed degree course name is B. Tech (Natural Gas Engineering). A panel consisting of internal SPT faculty and other expert will be constituted for framing the syllabus.
- i) Next agenda covered are the courses which need to be taken in the Ph. D, a list of courses proposed in the last year was discussed. The Director of the school feels that there are very limited courses in core Petroleum engineering and it needs to improve by adding new courses on core petroleum engineering.
- j) Experts felt that domain of the discipline need to be mentioned in the PhD degree instead of the topic on which a student takes a PhD. This is necessary as over a period of time, absence of domain name in Ph.D. degree may create problem as far as the interview and future is concerned. They further added that that Ph. D degrees can be based on major proportion of work carried out (either in the science stream or in engineering).
- k) It was also thought, in order to improve the number of students intake in the School of Petroleum Technology, a new M. Tech course, which are quite popular in the Western world may be incorporated in the present basket and one of such course which has been discussed today may be M. Tech in Geological Engineering. This may encompass students from petroleum engineering, civil engineering, geology, geophysics, mining engineering and others. The objective of the course is to solve geological problems using engineering understanding and software modelling. The course can start from this year or at least for the next year.



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