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conformation of revised Course outcomes for the subjects in the R-18 Scheme and Model scheme R-20

1 message

I.Bala Krishna <ibalakrishna_chem@cbit.ac.in>

Sun, Jul 19, 2020 at 4:28 PM

To: vj@iith.ac.in, prof.shyamsunder1961@gmail.com, ramesh.babu@hyderabad.bits-pilani.ac.in, sheela_nfc@yahoo.co.in

Bcc: director_cdc@cbit.ac.in

Dear Sir/Madam,

Greetings to you from the Dept. of Chemical Engg Dept, CBIT

Hope you and your beloved family are doing well in this pandemic situation of COVID-19.

This is I.Bala Krishna, faculty and Member BOS, Chemical Department, CBIT writing you this mail. You are aware that the **8th BOS** meeting of Chemical Engineering was held on 15 th March 2019. The Model Curriculum as suggested by the AICTE was discussed elaborately under the R-18 scheme. The suggestions made by you that time were incorporated and the same scheme is being implemented now. Already III and IV semesters of the Scheme are completed successfully and we are gearing up now for the V semester of this R-18 scheme. Now the College Management advised us to revise the course outcomes of the subjects from V to VIII semesters..

In this regard we have slightly revised the outcomes for the subjects which ever necessary, based on the blooms taxonomy, so that they have a good impact in the forthcoming NBA accreditation of our department. I request you kindly go through the attachments which contain the subjects from V to VIII semesters. Kindly confirm the Course outcomes of these subjects. The open electives are mentioned in the Scheme and are not in the syllabus. The COs of these subjects will be adopted later, once these are confirmed by respective BOS. I would like to mention here that one particular subject Transport Phenomena was initially designed for IV semester in present R- 18 scheme and later shifted to VII semester on the advice of academic council. In this regard the syllabus of this subject is slightly modified according to the VII semester students standards. Apart from this there are no other changes in the syllabus.

Also we are proposing a new R-20 Scheme . From III semester on wards in this scheme we have core chemical engineering subjects. The III semester of this R-20 Scheme will come into existence from 2021-22 on wards. In this regard I am also attaching a Model Skeletal Scheme for your perusal. Please go through this and give your suggestions, so that we can incorporate in the scheme and discuss in the forthcoming BOS meeting.

PFA

1. Scheme and syllabus of V to VIII semesters and syllabus of open electives offered by Chemical Engg of R-18
2. Modal Skeletal Scheme of R-20
3. Image file of I and II sem R-20 scheme of Chemical (Modified)

Looking forward for your valuable suggestions...Kindly confirm through mail, the above said points..so that the department can put forward these in the forthcoming Acedamic Council meeting to be held in 3rd week of July 20.

Regards

I.Bala Krishna

12 attachments

GROUP-2 (CE/EC/EE/ME/MS/Chem)					GROUP-2 (CE/EC/EE/ME/MS/Chem)							
Sl No	Name of the Course	No. of Hours			Credits	Sl No	Name of the Course	No. of Hours			Credits	
		L	T	P				L	T	P		
1	Mathematics -I	3	1	0	4	1	Mathematics-2	2	1	2	4	
2	Chemistry	2	1	4	5	2	Physics	2	1	4	3	
3	Engineering Mechanics	2	1	-	3	3	Programming/Computer Theory	2	1	4	5	
4	EAD & Drafting	5	-	-	2.5	4	Workshop/Manufacturing Practice	3	-	3	2.5	
5	Basic Electrical Engineering	-	-	-	4	5	English	2	-	2	3	
6	Biology for Engineers	2	-	-	3	6	SoftEngineering (80 hours) I/II	-	-	-	2	
7	Engineering Education	-	-	-	2	Total			9	03	15	21.5
Total					13	03	9	21.5	Block Hours per week: 27+4			

R-20 Scheme I and II sem final.png
57K

Open Electives by Dept.docx
24K

VI SEM.docx
70K

V Sem.docx
83K

VII Sem.docx
68K



Open Electives by Dept.pdf
257K



VIII sem.docx
55K



V Sem.pdf
478K



VII Sem.pdf
491K



VI SEM.pdf
815K



VIII sem.pdf
745K



R-20- Structure- Schema-12-07-2020-1-converted.pdf
287K

Chemical Engineering Department

Minutes of the BOS

In the pandemic situation of COVID-19, the BOS of the Chemical Engineering decided to email the External BOS Members and get necessary approvals for

1. Revision of the Course Outcomes in R-18, in accordance with Bloom's Taxonomy
2. Course list for Minor degree in Material Science and Honors degree in Chemical Engineering and
3. R-20 Model skeletal scheme

External BOS Members to whom the communication is sent:

1. Prof Vinod Janardhanan, Professor, Department of Chemical Engg, IIT Hyderabad
2. Mrs Sheela, Ex Dy. Chief Executive, NFC, Hyderabad.
3. Prof. R. Shyam Sunder, Principal, OUCT, Hyderabad.
4. Prof Ramesh Adusumalli, Chemical Engineering Dept, BITS Pilani, Hyderabad Campus
5. Dr K Sainath, MD, Claire Engineers Pvt. Ltd, Hyderabad.

Internal BOS Members to whom the communication is sent:

1. Prof R. Sreedhar Rao, Director AEC
2. Dr. N L Narsimha Reddy (I/C HOD and Director CDC)
3. Dr P V Naga Prapurna
4. Sri I. Bala Krishna

External BOS Members from whom replies were received:

1. Prof Vinod Janardhanan, Professor, Department of Chemical Engg, IIT Hyderabad
2. Mrs Sheela, Ex Dy. Chief Executive, NFC, Hyderabad.
3. Prof Ramesh Adusumalli, Chemical Engineering Dept, BITS Pilani, Hyderabad Campus

Minutes of the approvals/suggestions received by BOS through mail Communications.

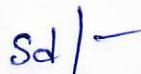
1. Emails were sent to all the BOS external members regarding the approval for the above mentioned items. Three members responded and the non receipt of response from two other members is deemed to be approval from their side.
2. The revised Course outcomes were approved by the three external BOS members with some minor spelling corrections.
3. Minor corrections were suggested in the Course objectives and Course outcomes of the departmental Open elective Nuclear Engineering. It was suggested to club the present II and III units into II unit and a new III unit to be included with biological effects of radiation, safety requirements in nuclear plants and nuclear accidents. All these changes were incorporated.
4. In another departmental open elective Pharmaceutical Technology, it was suggested to add insight into the latest drugs, Vitamins, Vaccines and Cancer/ neurological medicines. Also it was suggested

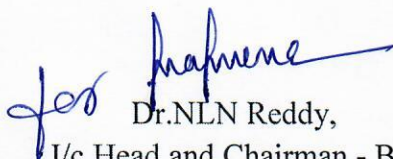
to replace suggested/text books if possible with some recent books and the suggestions are incorporated.

5. The Core course Transport Phenomena which was originally drafted for IV semester was shifted to VII Semester without any modifications in the syllabus, on the advice of the previous Academic Council. Now the syllabus is modified for the VII semester students and is approved by the external BOS members.
6. The Course "Process Instrumentation" in the VII semester is a two credit course with two hours of weekly instruction. The End Exam duration was wrongly mentioned as 3 hours and now that is changed to 2 hours in the scheme and syllabus.
7. The Courses for the present semester are identified for the Advanced Minor degree in Material Science (under Chemical Engineering Department). A total of SEVEN (07) courses are identified which are offered by NPTEL and certificate awarded through a proctored exam. A list of these courses is approved by the Members.
8. A total of 40 courses offered by NPTEL and having proctored exam were identified for the present semester for Honors Degree in Chemical Engineering. External BOS members were of the opinion, more Core courses should be opted by the students in the stream of Honors Degree and suggested removal of Five non Core Courses, reducing the total number of subjects offered in the present semester to thirty five (35).
9. BOS members expressed the Model R-20 Scheme to be a suitable one and would discuss the scheme and syllabus at length in the next BOS meetings.
10. The following courses are introduced into the curriculum as per institute's policy and are offered as open electives

S.No	Course Code	Title of the Course	Semester in which the course is offered	Open elective in which the course offered
1	18CSO 09	Basics of Artificial Intelligence	VI	I
2	18CS O10	Machine learning using Python	VII	II
3	18CS O04	Data Science using R	VIII	III

11. One External BOS member (Dr A Ramesh) expressed his inability to continue as BOS Member from the year 2020-21 due his preoccupied works and so could not approve the R-20 Scheme.


I. Bala Krishna
Coordinator, BOS


Dr. NLN Reddy,
I/c Head and Chairman - BOS