

ACTION TAKEN REPORT

Department of CIVIL Engineering

(School of Engineering & Technology)

Academic Year 2021-2022 to 2017-2018



DIT UNIVERSITY

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DIT University, Dehradun Department of Civil Engineering Session-2021-22 Report on Action taken

Brief decision of the 6th Board of Studies

Action Taken

	BOS Action Taken Report 2021-22			
	Item No. 6.4 To discuss the credit changes (From 174 credits to 160 credits) in the curriculum of B.Tech. Civil Engineering in Fully Flexible Choice Based Credit System (FFCBCS), as per recommendations of Chairperson, Academic Council			
Recommendation 1	The external experts suggested that 160 credits can be adopted as per AICTE norms. Mr. Ravi Shankar Kumar and Mr. Gaurav Thakur suggested keeping Foundation Engineering and Construction Planning and Management in the departmental core courses instead of departmental electives. However, the external experts suggested that the same can be decided at the departmental level.			
Action(s) taken	The received recommendation(s) of external experts was approved by the Academic Council and further implemented in the curriculum.	Responsibility HoD and Course coordinator	Target Date July 2021	
Recommendation 2	Item No. 6.5 To discuss the updation in course outcomes (COs) in the curriculum of B.Tech. Civil Engineering, CBCS schemes. The external experts suggested following proper Bloom's Taxonomy norms while writing COs for B.Tech. Civil Engineering curriculum (FFCBCS schemes) and for avoiding redundancy in keywords.			



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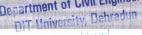
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	The received recommendation(s) of	Responsibility	Target Date	
Action(s) taken	external experts was approved by the Academic Council and further implemented in the curriculum.	HoD and Course coordinator	July 2021	
Recommendation 3	 Item No. 6.6 To present the revised course structure and syllabus of M. Tech Structural Engineering applicable for batch 2021-2023 onwards. The learned members suggested the following modifications in the program: The courses on Advanced Steel Design and Stability of Structures should be kept as core courses. Only the Dissertation should be kept in the last two semesters. The last two semesters should be free for the students to carry out their project works. III. The name of the software to be used in the course computer- 			
Action(s) taken	external experts was approved by		Target Date July 2021	
	Item No. 6.7 To present the revised course structure and syllabus of M. Tech Structural Engineering applicable for batch 2021-2023 onwards. Following revisions were recommended in the course contents of M. Tech - Structural Engineering:			
	Structural su Analysis an	Suggestions Received Is. Sandhya Joshi sugg abject should be kept and replaced by any other bject like Stability of	ested that the s an elective er core Structures.	
Recommendation 4	of Structures . be			









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				They also suggested giving more importance to this subject.	
				The external experts asked whether the syllabus is covering seismic response of buildings only or not.	
				The external experts suggested adding response analysis.	
	3.	Finite Element Analysis	1.	Mr. Gaurav Thakur suggested incorporating Finite Element Analysis of Plate & Shells.	
	4.	Computer-Aided Design of Structures	2.	Mr. Gaurav Thakur suggested that the details of the software should be there in the syllabus.	
	5.	Research Methodology and IPR		External experts suggested to add topics of innovation and technology.	
	6.	Advanced Foundation Design		External experts suggested to check and make it different than the previous subjects in continuation and a book by Crammer should be added in the syllabus.	
	7	Optimization in Structural Design		Mr. Gaurav Thakur suggested to include design of experiments topics.	
Action(s) taken		ommendation of learn s and various stakeho		Responsibility Target Date	
	been ma	orporated. Few change ade and were put up in demic council for app	n front	t of Course	



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DIT University, Dehradun Department of Civil Engineering Session-2020-21 Report on Action taken

Brief decision of the 5th Board of Studies

Action Taken

	BOS Action Taken Report 2020-21			
	Item No. 5.3 To confirm the credit and course code distribution of open electives offered in the existing CBCS scheme from the department of Civil Engineering. In this regard, an interim communication was sent to BoS members on 4th January 2020 and no comments were received.			
Recommendation 1	Since no comments were received the credits and course code distribution were confirmed unanimously.			
Action(s) taken	Since no recommendation(s) were received from external experts and codes and credits were approved by the Academic Council and further implemented in the curriculum.	Responsibility HoD and Course coordinator	Target Date July 2020	
Recommendation 2	Item No. 5.4 Discussions on the introduction of 2 credit course on 'Research and Publication Ethics' in Ph.D. course work as suggested by MHRD. The members including the external experts, alumni, and student members were informed that the proposed syllabus of 'Research and Publication Ethics' was suggested by MHRD. At the outset, the external experts expressed their concerns that some context should be added in the syllabus as follows:			







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	i. Credit sharing mechanism should be added for the benefit of the Ph.D. scholars. Supporting members of combined research should also be given due credit. ii. History of great Research should also be added to the syllabus iii. SOP of research methodology should be included in the syllabus to carry out good research. iv. Collaborative research is also to be included within this syllabus			
Action(s) taken	The received recommendation(s) of external experts was approved by the Academic Council and further implemented in the curriculum. HoD and Course coordinator Target Date			
Recommendation 3	Discussions on whether modifications are required for the syllabus of existing selective Diploma courses for consideration from the 2020-21 batch onwards. The external experts and alumni suggested focusing on some important aspects as follows: i. Estimation and Costing should be added which is relevant for all competitive examinations as well as industry, must be retained for the benefit of the students ii. Should Focus more on software courses iii. Field survey and/or activity-based learning should be incorporated within the syllabi. iv. Interest of students in content should be generated at all levels Diploma, UG, and PG.			
Action(s) taken	The received recommendation(s) of external experts was approved by the Academic Council and further implemented in the curriculum.	Responsibility HoD and Course coordinator	Target Date July 2020	



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Item No. 5.6

To present the course curriculum and detailed syllabus of B.Tech. Civil Engineering in the newly proposed Fully Flexible Choice Based Credit System (FFCBCS)

The learned members suggested the following modifications in the program:

- Unit 1 for the subject of Engineering Material should be more related i. to macro structures rather than microstructure
- The subject named 'Engineering Materials' should be designed in ii. such a manner that the subject becomes more relevant to the Civil Engineers i.e. some topics reflecting the core mechanical engineering domain are required to be removed.
- In the context of a reference book, it should be more standard and free iii. of errors.
- IS codes should be mentioned in reference book list wherever needed. iv.
- Pre-requisites of all syllabus should be revised. V.
- The title of 'Building design, Construction and Drawing should be vi. updated as the construction machinery and methodologies are not there in syllabi.
- Component of Torsion forces should be added in 'Strength of vii. Material'
- In Geomatics Engineering, topic of Tacheometry and Real Time viii. Kinematics of GPS and Geodetic GPS Surveying should be added
- For the course Structural Analysis I, lecture credit should be increased ix. from 2 to 3 List of experiments need to be revised. Also suggested to share experiments in two semesters rather than one.
- Book named "Theory of Structures" from Timoshenko was asked to Χ. be added.
- Flexural strain considerations were asked to be added in content of xi. Structural Analysis I along with axial strain
- In Hydrology and Irrigation Engineering, Flood modeling software xii. can be introduced in unit 3.
- The topic of Intelligent Transportation System should be added in xiii. Transportation Engineering I
- In Soil Mechanics the settlement analysis part should be shifted to xiv. Foundation Engineering course in unit 2.
- In Foundation Engineering course, different stability methods should XV. be incorporated. Also the term factor of safety and time dependant settlement analysis should be added.
- Also it was suggested to consider Bishop method, Culmann Graphical xvi. method, Taylor's stability method, friction circle method in Foundation Engineering.
- External experts suggested in keeping both the core courses xvii. Transportation Engineering I and II in Discipline Core as both have got high relevance in present industry scenario.
- Addition of Plastic Analysis as a Unit in Steel Design has been xviii.







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Recommendation 4	xix. Ir su xx. A A g g c c xxi. T xxii. H xxiii. S xxiv. P xxv. T A xxvi. R xxvii. T M xviii. L xxix. C xxx. S ir xxxii. C e e xxxiii. P xxxii. P xxxii. P xxxvi. S xxxvi. S xxxvi. S xxxvi. S xxxiii. P xxxxiii. P xxxxiiii. P xxxxiiiii. P xxxxiiiii. P xxxxiiiiii. P xxxxiiiiiiiiii	ppreciated by the experts. In design of RCC II, flat slab show the design suggested to increase the content of the incomposition of the should be a slighway design software MX ROA frome topics in PERT were missing the image processing part should applications in the subject of 'Rem Rock mechanics portion to be added from the design of the design o	orking stress method tent of matrix method tent of matrix method. M ibility method, ILD dded in structure And DS to be included in and requested to be be considered in Syll be added in Unit acte Sensing and Imade in Engineering George in Environmental Ries Stressed concrete in Soil to be considered by Control of Soil Dynamics synthesis and the strength of the strength of the syllabus where all engineering and return period should be added in the endine	d. od in Sructural ore focus to be method can be malysis I in VAT II. added. abus V in place of age Processing' sology sk and Disaster dered either in flabus GOI have to be able growth. ering syllabus erever required and earthquake ald be critically Environmental ge Engineering. uction planning
		Advanced Highway Engineering etailed discussion with external	Responsibility	Target Date
Action(s) taken	experts, the received recommendation(s) were approved by the Academic Council and further implemented in the curriculum. HoD and Course coordinator July 2020			
	from the	. 5.7 discussions on Open Electives Department of Civil Engineering erts expressed their approval for in Civil Engineering as these co	ng. all the open electiv	e courses to be
				OF OR

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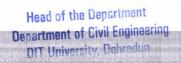
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	However, they suggested:			
Recommendation 5	i. Some modifications are required for the subject Environment and Ecology in the ecology portion to be more reflective of applications and technological solutions in society.			
	ii. The title Sustainable growth may be replaced by Sustainable development with necessary changes in the syllabus.			
Action(s) taken	After a detailed discussion with external experts, the received recommendation(s) were approved by the Academic Council	Responsibility	Target Date	
	and further implemented in the curriculum.	HoD and Course coordinator	July 2020	
	Item No. 5.8			
	To decide and seek inputs on any special evaluation scheme in the FFCBCS scheme			
Recommendation 6	 i. Members suggested that for slow learners, credit courses (only electives) should be offered to them as Audit course/ non-credit courses in case of non-fulfillment of passing criteria but the minimum credit requirement to get a degree from a university must be met by the student. They also strongly opposed for any other means of evaluation strategies so that the quality and integrity of education will be maintained. ii. The honorable members suggested the weightage ratio of internal assessment (that includes lab components in courses having lab) and end-term assessment for courses having theory and lab components both should be 70:30. On the other hand, for pure theory courses, the 			
Action(s) taken	ratio should be 60:40. After a detailed discussion with external experts, the received recommendation(s) were approved by the Academic Council and further implemented in the curriculum.	Responsibility HoD and Course coordinator	Target Date July 2020	
	Item No. 5.9			
	Finalizing the feasibility of course structure and syllabus of 'Remote Sensing and GIS' as certificate and PG Diploma course			
(3)	The learned members including external experts expressed satisfaction with the course structure and syllabus but according to their suggestions, the course must be offered as M. Tech in 'Remote sensing and GIS' rather than a			



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Recommendation 7	PG diploma or certificate course for the job prospect of Students. In their opinion, an M. Tech degree is dominantly required by employers for design use in GIS and remote sensing fields as compared to PGDM and Certificate courses. They also suggested "UAV remote sensing" as a certificate course which is having high demand by employers in the current scenario		
Action(s) taken	The received recommendation(s) were put up in front of the Academic Council for approval	Responsibility HoD and Course coordinator	Target Date July 2020

(Xx)

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Action Taken Report 2019-20 Department of Civil Engineering

	BOS Action Taken Report 2	2019-20				
	The members suggested the following recommendations in the B.Tech. pro i) An elective course on slope stability should be included in the program. I then pointed out that one full unit has already been devoted to it in the co Foundation Engineering (CE304). (Item no. 4.3.(i))					
	ii) One elective on data mining should be offered. (Item no. 4.3.(iii))					
	iii) The course GPS should be renamed as GNS which is the Indian version of G (Item no. 4.3.(iv))					
Recommendation 1	iv) The course Disaster Management should include contents as per the laid down by various Govt. regulatory agencies. (Item no. 4.3.(v))					
	ourse Hydrology.	(Item no.				
	vi) In the course Hydrology, some modelling software pertaining to flood sbe included in the syllabus. (Item no. 4.3.(vii))					
	vii) The final year should have fewer courses with may devote. (Item no. 4.3.(viii))					
Action(s) taken	It was taken for consideration and deliberation.	Responsibility Course Coordinator	Target Date July 2019			
	The members suggested the following recommend Engineering program: i) Erosion Control and Slope Stability should be included.					
Recommendation 2	ii) The courses Solid Mechanics and Theory of Structures should be suitably renamed. (Item no. 4.4.(ii))					
LEICE OF	iii) The course named Strength of Material should 4.4.(iii))	be suitably revise	ed. (Item no.			

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	iv) Some component of green building concept to b (Item no. 4.4.(iv))	e included in the	program.
	v) In the course Environmental Pollution Control, co Civil Engineering. (Item no. 4.4.(v))	ontent should be	related to
Action(s) taken	It was taken into consideration and changes were made as per the requirement and feasibility.	Responsibility Course Coordinator	Target Date July 2019
Recommendation 3	Regarding Ph.D. following courses are to be offered program. i. Earthquake Resistant Design ii. Slope Stability iii. Land Slide Some courses on GA and AI should also be offered		for the
Action(s) taken	It was taken into consideration and few changes were made.	Responsibility Course Coordinator	Target Date July 2019
Recommendation 4	The experts suggested that the 2 nd year of the M.To solely to the dissertation so that the students m higher learning of Structural Engineering and acc the 3 rd and 4 th semesters of the program shoul program. (Item no. 4.6)	ay get greater ex ordingly, the cou	kposure to th rses offered i
Action(s) taken	Necessary changes were made.	Responsibility Course Coordinator	Target Date July 2019



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Action Taken Report 2018-19 Department of Civil Engineering

	BOS Action Taken Report 2	018-19	
Recommendation 1	The external experts took note of the course Estimble offered as an elective in the seventh semester they suggested that this course should be offered as or eighth semester itself. The board agrees to exp (Item no. 3.1)	under CBCS sche s a core course eit	me. However her in seventl
Action(s) taken	It was taken for consideration and deliberation would be made in the next BOS.	Responsibility Course Coordinator	Target Date July 2018
Recommendation 2	Regarding B.Tech in Civil Engineering grad Geoinformatics and Disaster Mitigations the me program with either of the following two alternativa. Dual degree B.Tech (Civil Engineering + M.Tech Mitigations) which may be a five years program b. B.Tech Civil Engineering with Honour's in Mitigations	mbers suggested ves: h (Geoinformatics	I to offer the
Action(s) taken	It was taken into consideration for further deliberation and discussion.	Responsibility Course Coordinator	Target Date July 2018
Recommendation 3	They suggested for further more deliberations is meeting and academic council regarding the new B.Tech Civil Engineering with specializations in Mitigations in order to intact the importance of co (Item no. 3.1)	essary electives for Geoinformatics	for the cours and Disaste
Action(s) taken	It was taken into consideration and necessary changes were made.	Responsibility Course Coordinator	Target Date July 2018



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Recommendation 4	The external experts express there expressions about the university is supposed to offer Degree Programmes research and development. (Item no. 3.2)	out offering diplo ms of higher wit	ma Programs. h emphasis on
Action(s) taken	One of the learned members pointed out that in the present day job market scenario, there is a greater demand of trained Blue color machine man fitters and mechanics etc. hence introduction of these diploma Programs was justified, as majority of the workers on the shop floors and worksites are trained Diploma holders only. The board then accepted the proposal of introducing about Diploma Programs.		Target Date July 2018



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