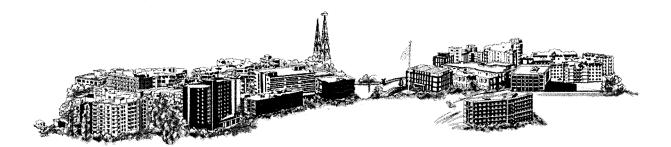


# **ACTION TAKEN REPORT**

# **Department of Civil Engineering**

Academic Year 2023-24



## **DIT University**

Mussoorie Diversion Road Dehradun, Uttarakhand-248009



#### DIT University, Dehradun (Department of Civil Engineering)

### Date: 25<sup>th</sup> February, 2023

#### Report on Action taken

### Brief decision of the 8th Board of Studies

Action Taken

Agenda Item Number & Minutes of 8th BoS	Write up about action taken
tem No. 8.2: To confirm the minutes of the 7th	Item No 8.2- The minutes of the 7th BoS and also the
Meeting of the Board of Studies (BoS) held on	suggestions of the external expert were accepted by
03.09.2021 at 10 am through MS Teams platform.	the board members.
Minutes of the 7 <sup>th</sup> BoS were circulated on	
9.09.2021. Suggestion to reduce no. of Quizzes for	
all types of subjects in FFCBCS was also received	
rom one external expert.	
tem No. 8.3: To report the minutes of 18th Meeting	Item No 8.3: The course, Disaster Preparedness
of the Academic Council held on 25th September	Planning and Management has been included in the
2021 pertaining to Civil Engineering	course curriculum of B.Tech programme w.e.f. Even
The board members expressed their satisfaction to	semester 2021-22.
ee that the updated syllabus in the course: Disaster	
preparedness planning and management was	
accepted in last academic council and has been in	
mplementation from Even semester 2021-22.	T N 0 ( TI
tem No. 8.4: Discussion on course structure and	Item No 8.4: The proposal has not been implemented
yllabi of proposed M.Tech in Construction,	as the department decided on focusing on improving
Planning and Management.	the UG (B.Tech) programme first.
I. In detail discussion, Dr. Akhil Upadhyay	
uggested that the subjects: Steel Structure, Fibre	
einforced concrete, introduction to construction	
naterial, Modern construction techniques and	
nandling the modern equipment should be	
ncorporated in the course of M.Tech in	
Construction, Planning and Management.	
2. It has been advised by Industrial expert from	
&T: Mr. Avinash Mahendrakar that the software,	
Building Information Modeling (BIM) should be	
ncluded in the course. He also suggested that more	
number of electives subjects should be added in the	
pasket. Also the course collaboration should be	
lone with industry and consultants such as L&T,	
Afcons Infrastructure, Hindustan, Reliance, Adani,	
Louis Berger and Ramboll for the betterment.	
3. Dr. Akhil Upadhyay and Dr. Sandeep Maithani	
advised to replace unit-1, unit-2 & unit-3 with	ULDO
tatistical analysis, introduction to Fuzzy,	INIVERS/12
Optimization and Probability theory in Advance	= c c t
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Mathematics course. Same was also proposed by Mr. Gaurav Thakur, Alumni.

4. Dr. Akhil Upadhyay further commented that in the subject: Advance Engineering Materials, Micro label theory of materials should be avoided and retrofitting, texture analysis, durability and tools should be added.

5. Mr. Avinash Mahendrakar suggested that equipment for bridge and equipment cost should be included in the subject: Construction Practice and Equipment. Same was also suggested by Mr. Gaurav Thakur and he further added that the software, BIM and planning software should be introduced in the subject: Construction Planning and Controlling

6. Dr. Sandeep Maithani advised that in the subject, Quality and Safety in Construction: More lecture hours to be given to unit 1. Also site visit should be added in the subject so that student must get the knowledge of quality at site. Same was supported by other members.

7. Members further suggested that

- IS codes to be introduced in Advance Concrete Technology.
- In Financial and Business Management, TQM should be omitted from the Unit-3.
- solar energy should be incorporated in Energy conservation and environment
- It has been advised by external experts that in the subject, modern equipment and SPSS software should be introduced in Infrastructure development and management.
- Focus must be given on presentation skill of students in Research Methodology and IPR course

8. Dr. Akhil Upadhyay specifically pointed out that in the subject Structural health monitoring, location, equipment, purpose and durability of equipment should be added. Topic Shear Lag theory should be removed from the Unit-4.

9. Members also advised to include non-classical method like GA, statistical methods such as six Sigma and Taguchi in the subject: Optimization in Construction Design. Fibre reinforcement and green building material to be included sustainable materials and green buildings. Steel Structure to be added in Maintenance and Rehabilitation of Structures

Chairperson appraised the board that the M.Tech course is planned to be made operational from academic year 2023-24.

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The members suggested to make the program industry collaborated and hire faculty members having knowledge in the particular domain. Also, it was suggested that final year can be completely dedicated in industry.	
Item No. 8.5: Proposed Changes in Fully Flexible Choice Based Credit System (FFCBCS) course curriculum The Chairperson appraised the board about ongoing FFCBCS and some problems being faced by the students. Also, he presented before the board about detailed plan of study for B.Tech Civil Engineering as shared in annexure 8.5.2. The board members expressed their satisfaction and recommended the plan. Also it was suggested to rename Transportation Engineering I as the course as core is the only one in plan of study. Transportation Engineering II has been shifted to elective so all the students will not read part II hence appropriate name can be decided by department. The chairperson assured to have a decision on that. Industry expert from Prism Concrete Mr. Amit Mishra has suggested following changes to be considered in FFCBCS syllabus which are extremely relevant from current industry demands. LAF- 382 – Engineering Economics Students can be taught regarding estimation, prediction of variability of raw material prices and industry shares in the time of sudden crisis or downtime of share market. LAF- 284 – Principal of management. Advertisement and Branding to be taught if not included in Marketing management. Advertisement and Branding to be taught if not included in Marketing management. Pot P's of leadership/startup (Purpose, process, payoff, patience) to be included CEF-345 – Green Building and Energy Conservation Unit -2 - Rainwater harvesting and ground water recharge with calculation in case of confined and unconfined aquifers to be included while dealing with water efficiency estimation.	Item No. 8.5: The plan of study for B.Tech Civil Engineering was accepted by the members and implemented from the subsequent academic year. The course Transportation Engineering I was renamed as Transportation Engineering. The topics suggested for the course CEF345: Green Building and Energy Conservation, are already included and discussed in principle in the topic "water efficiency" in Unit 2 of the course.
Item No. 8.6: Discussion on offering of courses for minor and certification in FFCBCS Chairperson introduced two minor courses to be offered by Department: Geomatics Engineering and	Item No. 8.6: It ws decided that the proposal would be discussed in detail with updated syllabus in the next BoS

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CEF202) only as pre requisite for Design of Reinforced Concrete Structures(CEF302) and Design of Steel Structures(CEF303) rest all existing	TUNIVERS
fter discussing in detail about the existing pre- equisites, the board members strongly agreed and dvised following: keeping Strength of Materials	
f. The members informed to abide by the university lecision in such cases but minimizing the pre- equisites.	
ossibilities. Also chairperson informed that in uture, bucket specific pre-requisites may be thought	
equisites. The external members strongly suggested minimize the pre-requisites at its best	
The chairperson appraised the board that some tudents are facing problems to opt progressive ubjects due to failing in course specific pre-	Design of Reinforced Concrete Structures (CEF302). Rests were removed.
valuation of FFCBCS scheme	Strength of Materials (CEF202) as pre requisite for
tem No. 8.7: Discussion on prerequisites and	Item No. 8.7: The department has decided to keep
ensing, and GIS for the Civil Engineering students.	
C. Dr. Akhil Upadhyay strongly advised to add najor/minor courses of Geoinformatics, remote	
Aanagement'.	
Application of Geoinformatics in Disaster	
Application of GIS in Disaster Management' to the	
. It was proposed to change the name of the subject:	
hould be added.	
uggested that in the course of GPS, Practical	
ncorporated with brief introduction. He further	
xpert that LIDAR, RADAR & SAR should be	
I. It has advised by Dr. Sandeep Maithani, external	
suggestions came but from discussion as provided below:	
iniversity website. Regarding the syllabus following suggestions came	
hrough course advisors and to be displayed at	
properly informed to students at first year only	
further suggested that the minor courses to be	
External members agreed to the proposal and	
vith course advisor.	
student may choose such subjects in consultation	
of subjects as certificate in the two disciplines. The	
nave the flexibility to offer or to choose combination	
completes 9 credits. The department or student will	
will get minor degree or certificate if the students	
<i>Chairperson appraised the board if any student does</i> <i>extra 18 credits for any of the two courses he/she</i>	
olan and syllabus were presented before the board.	

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<i>implemented.</i> Item No. 8.8: Deliberation on applicability of	Item No. 8.8: The department has decided to discuss
National Education Policy (NEP) in the	the detailed course curriculum as per NEP in the nex
curriculum of B.Tech Civil Engineering	BoS.
Chairperson presented detailed NEP documents	
and the questionnaires to be asked to University by	
NAAC team for NEP implementation. Also he	
appealed to external members for relevant	
suggestions. The learned external members suggested that	
already special committees have been formed in	
their parent institutes to see the existing teaching-	
learning framework and in what way or how	
modifications can be implemented according to	
NEP. The work is still in progress and decisions are	
vet to come. Moreover, more clear understandings	
are required. They further suggested that DIT	
university should not take decision in hurry rather	
observe their existing processes aligned with NEP	
and take suggestions from premier institutes when	
they apply the same. They also suggested that there	
must be some kind of filtering strategies to ensure	
quality in multiple entry and exit process.	
The chairperson further appraised the external	
members that already DIT University is doing or in	
planning stage for many academic and co-	
curricular activities aligned with NEP such as	
ninor programs, major programs (yet to be	
decided), outcome based education, multiple skill	
development programs, several courses related to	
anguage, human value and ethics, environment,	
capstone projects, project based learning,	
nultidisciplinary-interdisciplinary research hrough Centers of excellences etc.	
nrougn Centers of excellences etc. The members suggested to properly document it for	
<i>NAAC purpose and wait till premier institutes</i>	
implement the NEP. Also they suggested to explore	
infrastructure and manpower capabilities suitable	
for NEP implementation.	

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