NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL

P.O. SRINIVASNAGAR, MANGALURU-575025



MINUTES

OF THE

58th Meeting of the SENATE

Date : 06.12.2021 (Monday)

Time: 03:00PM Onwards

Through: Google Meet

N.I.T.K., Surathkal

MANGALURU

PIN - 575 025



NATIONAL INSTITUTE OF TECHNOLOGY KARNATAKA, SURATHKAL POST SRINIVASNAGAR, MANGALURU – 575 025.

Phone: (0824) 2474 000

E- mail: registrar@nitk.ac.in/ registrar @nitk.edu.in

Fax: (0824) 2474 033/ 2474 039 Website: http://www.nitk.ac.in

Proceedings of the 58th Meeting (Through Google Meet) of the Senate of National Institute of Technology Karnataka, Surathkal held on December 06, 2021 (Monday) at 03:00 PM.

MEMBERS PRESENT:

Dr. K. Umamaheshwar Rao	 Chairman
Dr. Ananthanarayana V. S.	 Member
Prof. K.V. Jayakumar	 External Member
Prof. N. C. Shivaprakash	 External Member
Dr. (Ms.) Vidya Shetty K.	 Member
Dr. M. S. Bhat	 Member
Dr. K. S. Babu Narayan	 Member
Dr. U Shripathi Acharya	 Member
Dr. Vijay H. Desai	 Member
Dr. Narendranath S.	 Member
Dr. B M Dodamani	 Member
Dr. Lakshman Nandagiri	 Member
Dr. Subba Rao	 Member
Dr. Dwarakish G S	 Member
Dr. A. Mahesha	 Member
Dr. (Mrs.) Amba Shetty	 Member
Dr. P E Jagadeesh Babu (HoD)	 Member
Dr. M.B. Saidutta	 Member
Dr. Raj Mohan B	 Member
Dr. Uday Kumar Dalimba (HoD)	 Member
Dr. A. Chitharanjan Hegde	 Member
Dr. A. Nityananda Shetty	 Member
Dr. Badekai Ramachandra Bhat	 Member
Dr. Denthaje Krishna Bhat	 Member
Dr. Arun Mohan Isloor	 Member
Dr. (Mrs.) B R Jayalekshmi	 Member

Dr. M. C. Narasimhan		Member
Dr. Katta Venkataramana	1	Member
Dr. A.U. Ravi Shankar		Member
Dr. S. Shrihari		Member
Dr. Sitaram Nayak		Member
Dr. Subhash C Yaragal	* ******	Member
Dr. Shashidhar G Koolagudi (HoD)		Member
Dr. K. Chandrasekaran		Member
Dr. Annappa		Member
Dr. P. Santhi Thilagam		Member
Dr. Ashvini Chaturvedi	•••••	Member
Dr. Muralidhar Kulkarni		Member
Dr. T. Laxminidhi	******	Member
Dr. (Mrs.) Sumam David S.		Member
Dr. Neelavar Shekar Vittal Shet	******	Member
Dr. Gururaj S Punekar	******	Member
Dr. K Panduranga Vittal	*******	Member
Dr. Udaykumar R Yaragatti	******	Member
Dr. B Venkatesa Perumal		Member
Dr. Shubhanga K N	*******	Member
Dr. Jaidhar C D (HoD)		Member
Dr. G. Ram Mohana Reddy	,	Member
Dr. R Madhusudhan (HoD)		Member
Dr. A. Kandasamy		Member
Dr. Suresh M Hegde	* ******	Member
Dr. Santhosh George	*******	Member
Dr. B. R. Shankar	******	Member
Dr. Murulidhar N. N.		Member
Dr. Shyam S. Kamath		Member
Dr. S. M. Kulkarni		Member
Dr. Ashok Babu T P		Member
Dr. S. M. Murigendrappa		Member
Dr. G. C. Mohan Kumar		Member
Dr. Gangadharan K. V.		Member
Dr. Shrikantha S. Rao		Member

Dr. Ravikiran Kadoli	7	Member
Dr. H. Suresh Hebbar		Member
Dr. K. Narayan Prabhu		Member
Dr. Jagannath Nayak		Member
Dr. Anandhan Srinivasan		Member
Dr. Udaya Bhat K.		Member
Dr. Aruna M (HoD)		Member
Dr. Ch. S. N. Murthy		Member
Dr. V. R. Sastry		Member
Dr. M. Govinda Raj		Member
Dr. Harsha Vardhan		Member
Dr. Ajith K M (HoD)		Member
Dr. N. K. Udayashankar		Member
Dr. (Mrs.) H. D. Shashikala		Member
Dr. M. N. Satyanarayan		Member
Dr. Rajesh Acharya H (HoD)		Member
Dr. Aloysius Henry Sequeira	******	Member
Dr. K. B. Kiran		Member
Dr. Shashikantha Koudur		Member
Chairman - CCC System Manager, CCC		Member
Dr. Mallikarjuna Angadi, Librarian		Member
Shri K. Ravindranath, Registrar	******	Secretary

MEMBERS ABSENT:

Prof. (Ms.) Anjula Gurtoo	•••••	External Member
Dr. Kiran G. Shirlal		Member
Dr. K. Swaminathan		Member
Dr. Varghese George		Member
Dr. John D'Souza	••••	Member

PREAMBLE:

At the outset of the meeting, Chairman welcomed all the members to the 58th Meeting of the Senate.

After a brief discussion, with the permission of the Chair, the Secretary Senate, began the deliberations on the Agenda Items.

Item No. 58.1: Confirmation of the 57th meeting of the Senate held on Wednesday, October 20, 2021 through Google Meet at N.I.T.K., Surathkal – Reg.

Resolution: The Senate resolved to confirm the minutes of the 57th Meeting of the Senate.

Item No. 58.2: To consider the report on action taken on the minutes of 57th meeting of the

Senate held on Wednesday, October 20, 2021 through Google Meet at N.I.T.K.,

Surathkal - Reg.

Resolution: The action taken on the minutes of the 57th Senate meeting were noted.

Item No. 58.3: To consider the items placed before the present (58th) meeting of the Senate

to be held on Monday, December 06, 2021 at 03:00 PM through Google Meet

- Reg.

Item No. 58.3.1: To consider the Agenda items discussed in the 36th Meeting of the Board of

Studies (BoS) held on November 08, 2021 – Reg.

36-BOS-1: Modification in B. Tech Regulations

The Senate discussed on the recommendations of BOS on the revisions in B.Tech regulations and Curriculum that are based on the proposals of the Committee to formulate the framework for implementation of NEP-2020 (To be effective from AY 2021-22).



Item title	Proposal of the Committee set up to formulate the framework for implementation of NEP-2020	BOS Resolutions on the Proposed Revision in B.Tech regulations and Curriculum	Resolution of the Senate
BoS 36.1.1 Introdu-ction of liberal arts into B.Tech	This is being done to impart multidisciplinary and holistic education with no hard separations as proposed in the NEP 2020 document; the institute plans to introduce liberal arts along with making provisions for not drawing a rigid distinction between cocurricular and extracurricular activities. Additional credits over and above degree requirement in the form of S/N may be introduced. Eg., if 150 credits are required for B.Tech, then it could be increased to make it 150+10. 10 for liberal arts, some of it could come from sports and club activities also. An alternate recommendation is that we can throw open the electives and students can get credits from MOOCs in liberal arts counted towards electives. This alternative would be beneficial, if we consider the other changes that are being proposed.	The BOS resolved to recommend the introduction of a Mandatory Learning course (MLC) on Liberal arts courses/cocurricular/extrac urricular activities". B. Tech students are required to earn minimum 10 credits under "Liberal arts courses/cocurricular/extracur ricular activities" which are categorized as Mandatory Learning courses (MLC). It is resolved to recommend that this course may be offered by Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) functioning under Dean (Student Welfare). It is recommended that the course may be assigned a Course code of SA 401. The Liberal arts courses /cocurricular /extracurricular activities are recommended to be categorized as follows: CATEGORY A: Sports/club activities/organizing Institute level programmes/NSS - Maximum 3 credits may be earned under this category of activities with credit allocation as follows: Participation in club activities /NSS/competitions held by the club -1 credit per participation Member of a Club -2 credits per membership Organizing team members of Institute events like INCIDENT/Engineer /club office bearers -3 credits per membership	Maximum 3 credits may be earned under this category of activities with credit allocation as follows: Participation in club activities /NSS/ competitions held by the club -1 credit per participation Member of a Club -2

• Participation in state/National | level competitions/paper | presentation/Model | building competitions -- 3 credits / participation |

All the certificates under this category are to be submitted by the student to Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) clearly specifying the for consideration, category through the faculty advisor for the respective club/Committee and further to be approved by Dean (SW).

CATEGORY B: NCC or YOGA courses offered by the Institute - Maximum 3 credits.

Certificates under this category are to be submitted by the student to Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) clearly specifying the category for consideration, through NCC Officer/Yoga Instructor of the Institute, as applicable and further to be approved by Dean (SW).

CATEGORY C: Certified courses in Languages /Fine arts - Maximum 7 credits may be earned under this category. The certificates issued by authorized certification bodies to be submitted by the student to Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) clearly specifying the category for consideration and further to be approved by Dean (SW).

 Participation in state/ National /International level competitions/paper presentation/Model building competitions --3 credits / participation

All the certificates under this category are to be submitted by the student to Department of Physical Education and Sports clearly specifying the category for consideration, through the faculty advisor for the respective club/Committee and further to be approved by Dean (SW).

CATEGORY B: NCC or YOGA courses offered by the Institute - Maximum 3 credits.

Certificates under this category are to be submitted by the student to Department of Physical Education and Sports) clearly specifying the category for consideration, through NCC Officer/Yoga Instructor of the Institute, as applicable and further to be approved by Dean (SW).

category c: Certified courses in Languages / Fine arts - Maximum 7 credits may be earned under this category. The certificates issued by authorized certification bodies to be submitted by the student to School of Management clearly specifying the category for consideration .

The courses/activities under "Liberal courses/coarts curricular/ extra-curricular activities" may be taken during the period from 1st semester to 7th Semester B.Tech at student's convenience. However registration for these courses have to be done in the seventh semester. The certificates may be submitted by the student Department to the of Physical Education and Sports/School of management as applicable with due forwards,

Leues

		The courses/activities under "Liberal arts courses/co- curricular/ extra-curricular activities" may be taken during the period from 1st semester to 7th Semester B.Tech at student's convenience. However registration for these courses have to be done in the seventh semester. The certificates may be submitted by the student to the Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) with due forwards, recommendations and approvals from the appropriate authority as specified above. The procedure and the time of submission of the certificates may be framed by the Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) with approval from	recommendations and approvals from the appropriate authority as specified above. The consolidated credits earned by all the registered students for each of the B Tech programme, mentioning the credits earned in Category A and B to be sent by Department of Physical Education and Sports with approval from Dean (SW) to Office of Dean (Academics). The consolidated credits earned by all the registered students for each of the B Tech programme, mentioning the credits earned in Category C to be sent by School of Management to Office of Dean (Academics). The implementation procedure, the time of submission of the certificates etc. and guidelines for the consolidation of credits and grades may be framed by the Dean(SW), School of
POS 26 1 2	To inculante erectivity	Dean(SW). A consolidated grade sheet for all the registered students for each of the B Tech programme, mentioning the credits earned in each category and the total credits with S/N grades may be sent in a prescribed format to the to the Office of Dean (Academic) by the Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) with approval from Dean(SW). The prescribed format may be made available in Curriculum book.	Management and Dean (Academics). The Senate also resolved to recommend the change of name of the School of Management to School of Humanities, Social Sciences and Management.
BOS 36.1.2 Introduction of corner stone, Capstone project	To inculcate creativity and critical thinking to encourage logical decision-making and innovation it is proposed to encourage students to take up corner stone projects which shall culminate in Capstone projects. In many departments	The BOS resolved to recommend the introduction of a cornerstone/capstone project in the curriculum, offered as an elective with 4 credits. For such projects, the student has to register in his/her department in the beginning of 3rd semester. The registration details of such students are to	

	there are students who on their own volition, do projects from second year onwards, even working through summer holidays. This may be encouraged so that students at an early stage can come up with ideas, work on them through the years and make it into a successful one which could later be a seed to a startup. Every department should encourage students to take up such corner stone projects which could culminate in a cap stone project. To incentivize students to take up such projects, credits may be assigned and set against electives.	be maintained in the Department. The student should work on this project from 3rd semester to 7th semester. The student has to submit a report to the department at the end of every semester and present the work progress to a duly constituted committee. Formally the registration for this course has to be done in the seventh semester and the student has to submit a final report at the end of seventh semester. The assessment will be done at the end of seventh semester by a duly constituted committee at the department level, with the guide as a member. This course may have a course code specified by the Department.	
BOS 36.1.3	To enhance creativity	The BOS resolved to	The Senate resolved to
Introduction	and critical thinking, it	recommend the introduction	approve the BoS
of a Design	is proposed to include	of a Mandatory learning	recommendation.
course in the	engineering design at		recommendation.
first year	the entry level so that	Design Thinking (ME 100):	
	the students learn the	(2-0-0) 2 Credits.	
	process of creating something and also learn how to make it happen. This enhances both their creativity and critical thinking.	This course will be coordinated by Mechanical Engg. Department, with course instructors from the various B.Tech Programme offering Departments. The student is required to complete this course during 1st/ 2nd semester.	
BOS 36.1.4	Eg., in Machine	The BOS resolved to	The Senate resolved to
Introduction	Learning, in Data	recommend the provision of	approve the BoS
of 'MINOR' in	Science, in Automobile	the following three types of	recommendation.
niche areas.	engineering, to name a few. This would also provide flexibility for students to choose their programs according to their telepter. Extending	Minor programmes in the curriculum A student in a particular discipline can take	
	their talents. Extending	additional specified courses	
2 2	on this idea of another Minor being offered by	totaling 15 to 20 credits for, (a) Minor in other	
	departments, E&C can	disciplines where all	
	offer one in	the courses are	
	Communication, E&E	offered by a	
	can offer one in	department other	
	Embedded Systems, CH	than his/her parent	
	in Biotechnology, CSE	department	
	on Cyber Security, cloud	or	
	computing, computer k,		



	SOM on Economics, MACS on Data Science, CV in Structures, Geotechnical, Transportation, Remote sensing, water resources, marine structures; ME on thermal sciences, Mechatronics, automobile engineering, etc. This list is only indicative and not exhaustive.	(b) Interdisciplinary Minor where courses are offered by two or more departments and may be opted by student of any discipline or (c) Minor in Niche areas in his/her parent discipline	
BOS 36.1.5 Introduction of Python programming	Python programming may be introduced to first year students instead of C programming, as most of the B.Tech students require exposure to application software domain rather than system software domain, except in the case of CSE and IT. The course could be Introduction to programming and data structures	Presently, the following Computer programming courses are to be completed by all the students in 1st /2nd semesters of B.Tech under Engineering Science Core CS110 Computer Programming (3-1-0) 4 CS111 Computer Programming Lab (0-0-2)1 The BOS resolved to recommend that the departments may be given an option of specifying a set among the following sets of two courses as part of Computer programming courses at the first year level under Engineering Science Core for the B. Tech programme offered by their Department: Set 1 (The existing Computer Programming theory and lab courses which are renamed and with restructured L-T-P credits) CS 110 C Programming (3-0-0) 3 CS111 C Programming Lab (0-0-3) 2 Set 2 CS 100 Python programming (3-0-0) 3 CS 101 Python programming lab (0-0-3) 2	

The Senate considered and appreciated the efforts and work of the Committee constituted to formulate the framework for implementation of NEP-2020 and placed its appreciation on Record.



36-BOS-2: Modification in B. Tech Regulations:

The Senate deliberated on the following modifications in the Clauses in Regulations/Inclusion of syllabus for the newly introduced courses in the Curriculum recommended by BOS to accommodate the recommendations of the Committee to formulate the framework for implementation of NEP-2020 (To be effective from AY 2021-22).

Item	Existing	BOS Resolution	Senate Resolution
BOS.36.2.1	Curriculum 2020 -	In order to facilitate the	The Senate resolved
Changes	B.Tech Regulations :Clause 3.1.	Introduction of "Liberal arts	to approve the Bos
B.Tech	The total course package for a	courses /cocurricular /	recommendations.
Course	B.Tech Degree Programme will	extracurricular activities" as	
structure:	typically consist of the following	MLC course with 10 credit	di .
	components.	requirement, a MLC on	
Modificatio	(a) Foundation Courses FC	Introduction to Design	
n in Clause	38 –50 Credits	Thinking, BOS resolved and	
3.1		recommended that the	
	A Foundation Course can be any	minimum Total Credit	
	of the following:	requirement for B.Tech	
	Basic Science Core Courses	Programme may be increased	
	(BSC),	from the present range of 150-	
	Engineering Science Core	160 to 160-170 credits. The	
	Courses (ESC), and	MLC credit requirement may be	
	Humanities and Social Science	increased from 5 credits to 16	
	Core Courses (HSC)	credits	
	(1) P	BOS recommended the	
	(b) Programme Core Courses PC ≥	following Changes in Clause	- 11:
	60 Credits	3.1 - B.Tech Regulations from	
	(1) 11 11 0 11 11 11	AY 2021-22	
	(c) Elective Courses ELE ≥ 20	The total course package for a	
	Credits	B.Tech Degree Programme will	
	An Elective Course can be any of	typically consist of the following	
	the following: Programme Specific	components.	l.
	Electives (PSE), Certified MOOCs	(a) Foundation Courses	
	(NPTEL/SWAYAM etc.) and Mini	FC 38 –50 Credits	
	Projects.		
	(1) D (16) D	A Foundation Course can be any	
	(d) Project (Mini Projects and	of the following:	
	Major Project) MP 4 - 6 Credits	Basic Science Core Courses (BSC),	
	(e) Mandatory Learning Courses	Engineering Science Core	
	MLC 5 Credits	Courses (ESC), and Humanities	
		and Social Science Core Courses	
	The Minimum Credit	(HSC)	
	Requirement for the B.Tech		
	Degree is 150 to 160	(b) Programme Core Courses PC ≥ 60 Credits	
		(c) Elective Courses ELE ≥ 20	
		Credits	
	Name of the second second	An Elective Course can be any of	
		the following: Programme	
		Specific Electives (PSE), Certified	
		MOOCs (NPTEL/SWAYAM etc.),	
		Mini Projects and Cornerstone	
		/capstone project.	



(d) Project (Mini Projects and Major Project) MP 4 - 6 Credits

(e) Mandatory Learning Courses MLC **16 Credits**

The Minimum Credit Requirement for the B.Tech Degree is 160 to 170

BOS.36.2.2

Modification in Clause 3.2

Curriculum 2020 - B.Tech Regulations : Clause 3.2.

The students have the option to register for certified MOOC courses (NPTEL/SWAYAM etc.) limited to 5 credits.

Project (MP)

Project work may consist of Major Project and Mini Projects (optional) offered by parent department. The Major Project is a course with 4-6 credits and can comprise of Part I and Part II, spread over 1 or 2 semesters of final year, preferably during 7th and 8th semesters. DUGC may prescribe Mini Project as a requirement for the B. Tech Degree or in lieu of equivalent elective credits. The method of evaluation for major and minor projects shall be evolved by pertinent DUGC and appropriate double-letter grade is awarded which will be considered for SGPA and CGPA calculation

Mandatory Learning Courses:

These are courses that must be completed by the student at appropriate time. The 'S' grade is awarded for satisfactory completion of the course and 'N' grade is awarded for non-completion of the course. The 'S' and 'N' grades do not carry grade-points and hence not included in the SGPA, CGPA computations

Courses that come under this category are the following:

(a) Environmental Studies: This is a 1 credit course, coordinated by Department of Civil Engineering and the student is required to complete

The BOS resolved to recommend the following modification in Curriculum – B.Tech Regulations: Clause 3.2 from AY 2021-22

Certified MOOC courses

The students have the option to register for certified MOOC courses (NPTEL/SWAYAM etc.) limited to 8 credits for their elective credit requirement.

The students also have the option to register for certified MOOC courses (NPTEL /SWAYAM etc.), limited to 7 credits for MLC credit requirement towards the completion of the MLC course "Liberal arts courses/ cocurricular / extracurricular activities".

Credits earned through certified courses will not be used for SGPA/CGPA computations. However, these credits will be considered for elective/MLC credits requirements of the programme.

A student must provide all the details (original or attested authentic copies) such as course content, number of contact hours, course instructor and evaluation system for the certified course which he/she requests to be considered in order to fulfil the designated credit requirement.

These details will be evaluated by the concerned DUGC (for Elective credit requirement) before giving the approval. The DUGC will then decide the The Senate resolved to approve the BoS recommendation with the following modifications.

Certified MOOC courses

The students have the option to register for certified MOOC courses (NPTEL/SWAYAM etc.) limited to 8 credits for their elective credit requirement.

The students have the option to register for certified MOOC courses /SWAYAM (NPTEL etc.), limited to 7 credits for MLC credit requirement towards the completion of the MLC course on "Liberal arts courses/ cocurricular extracurricular activities". Credits earned through certified courses will not be used for SGPA/CGPA computations. However, these will credits be considered elective/MLC credits requirements of the programme.

A student must provide all the details (original or attested authentic copies)



this course during 1st / 2nd semester

- (b) Professional Ethics and Human Values: This is a 1 credit course, coordinated by School of Management and the student is required to complete this course during 1st/ 2nd semester
- (c) **Seminar**: The student will make presentations on topics of academic interest
- (d) **Practical Training**: The student may complete the training before the beginning of the 7th semester (or as stipulated by the DUGC) and register for it in 7th Semester. The duration and the details shall be decided by the Faculty Advisor with approval from DUGC

number of equivalent credits the student will get for such course(s) in NITK. The complete details will then be forwarded to Dean (A) for approval.

The details of MOOC courses towards Category C of MLC course on Liberal arts courses/ cocurricular/ extracurricular activities" will be evaluated by Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) and it will then decide the number of equivalent credits the student will get for such course(s) in NITK. The complete details will then be forwarded to Dean (A) for approval with recommendations Dean of (SW).

Project (MP)

Project work may consist of Major Project and Mini Projects (optional) offered by parent department. The Major Project is a course with 4-6 credits and can comprise of Part I and Part II, spread over 1 or 2 semesters of final year, preferably during 7th and 8th semesters. DUGC may prescribe Mini Project as a requirement for the B. Tech Degree or in lieu of equivalent elective credits. The method of evaluation for major and minor projects shall be evolved by pertinent DUGC and appropriate double-letter grade is awarded which will be considered for SGPA and CGPA calculation

Cornerstone/capstone
Project:
The students have the option
to register for
Cornerstone/capstone
Projects offered by
departments as an elective.
For such a project, the student
has to register in his/her
department in the beginning of

such as course content, number of contact hours, course instructor and evaluation system for the certified course which he/she requests to be considered in order to fulfil the designated credit requirement.

These details will be evaluated by concerned DUGC (for Elective credit requirement) before giving the approval. The DUGC will then decide the number of equivalent credits the student will get for such course(s) in NITK. The complete details will then be forwarded to Dean (A) for approval.

The details of MOOC courses towards Category C of MLC course on Liberal arts courses/ cocurricular/ extracurricular activities" will evaluated by School of Management and it will then decide the number equivalent credits the student will get for such course(s) in NITK. The complete details will then be forwarded to Dean (A) for approval.

Project (MP)

Project work may consist of Major Project Mini and Projects (if specified by the Department) offered by parent department. Major Project is a with 4course 6 credits and can comprise of Part I and



3rd semester. The registration details of such students are to maintained in the Department. The student has to work on this project under the supervision of a faculty member from 3rd semester to 7th semester. The student has to submit a report to the department at the end of every semester and work progress may be assessed by a duly constituted committee at the department level, with the guide as a member at the end of every semester. Formally the registration for this course has to be done in the seventh semester and the student has to submit a final report at the end of seventh semester. The assessment to be done at the end of seventh semester by a duly constituted committee at the department level, with the guide as a member.

Mandatory Learning courses:

These are courses that must be completed by the student at appropriate time. The 'S' grade is awarded for satisfactory completion of the course and 'N' grade is awarded for noncompletion of the course. The 'S' and 'N' grades do not carry grade-points and hence not included in the SGPA, CGPA computations.

Courses that come under this category are the following:

- (a) Environmental Studies: This is a 1 credit course, coordinated by Department of Civil Engineering and the student is required to complete this course during 1st / 2nd semester.
- (b) Professional Ethics and Human Values: This is a 1 credit course, coordinated by School of Management and the student is required to complete this course during 1st/ 2nd semester
- (c) Seminar: 1 credit. The student will make presentations on topics of academic interest.
- (d) **Practical Training: 1 Credit.** The student may complete the training before the beginning of the 7th semester

Part II, spread over 1 or 2 semesters of final year, preferably during 7th and 8th semesters. DUGC may prescribe Mini Project as a requirement for the B. Tech Degree or in lieu of equivalent elective credits. The method of evaluation for major and mini projects shall evolved by pertinent DUGC and appropriate doubleletter grade is awarded which will be considered for SGPA and CGPA calculation

Cornerstone/capsto ne Project:

The students have the option to register for

Cornerstone/capston e Projects offered by departments as an elective.

For such a project, the student has to register in his/her department in the beginning of 3rd semester. The registration details of such students are to be maintained in the The Department. student has to work on this project under the supervision of a faculty member from 3rd semester to 7th The semester. student has to submit report to the department at the end of every semester and work progress may be assessed by a constituted duly committee at the department level, with the guide as a member at the end of every semester.

(or as stipulated by the DUGC) and register for it in 7th Semester. The duration and the details shall be decided by the Faculty Advisor with approval from DUGC.

(e) Introduction to Design Thinking (ME 100): (2-0-0) 2 Credits.

This course will be coordinated by Department of Mechanical Engg., with course instructors from the various B.Tech Programme offering Departments. The student is required to complete this course during 1st/ 2nd semester.

(f) "Liberal arts courses /cocurricular/extracurricular activities": This is a 10-credit course. The students are required to earn minimum 10 credits under "Liberal arts courses/co-curricular /extracurricular activities" The Liberal arts courses/ cocurricular/extra-curricular activities may be categorized as follows:

CATEGORY A: Sports/club activities/organizing Institute level programmes/NSS - Maximum 3 credits may be earned under this category of activities with credit allocation as follows:

- Participation in club activities /NSS/ competitions held by the club -1 credit per participation
- Member of a Club -2 credits per membership
- Organizing team members of Institute events like INCIDENT/ Engineer/club office bearers - 3 credits per membership
- Participation in state/National /International level competetions / paper presentation/Model building competitions -3 credits/participation

All the certificates under this category are to be submitted by the student to Department of

Formally registration for this course has to be done the seventh semester and the student has to submit a final report at the end of seventh The semester. assessment to be done at the end of seventh semester by a duly constituted committee at the department level, with the guide as a member.

Mandatory Learning courses:

These are courses that must be completed by the student at appropriate time. The 'S' grade is awarded satisfactory for completion of the course and 'N' grade is awarded for noncompletion of the course. The 'S' and 'N' grades do not carry grade-points and hence not included in the SGPA, CGPA computations.

are the following:

(a) Environmental
Studies: This is a 1
credit course,
coordinated by
Department of Civil
Engineering and the
student is required
to complete this

course during 1st /

2nd semester.

Courses that come

under this category

(b) Professional
Ethics and Human
Values: This is a 1
credit course,
coordinated by
School of
Management and the
student is required
to complete this



Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) clearly specifying the category for consideration, through the faculty advisor for the respective club/Committee and further to be approved by Dean (SW).

CATEGORY B: NCC or YOGA courses offered by the Institute - Maximum 3 credits. The certificates under this category are to be submitted by the student to Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) clearly specifying the category for consideration, NCC through Officer/Yoga Instructor of the Institute, as applicable and further to be approved by Dean (SW).

CATEGORY C: Certified courses in Languages /Fine arts - Maximum 7 credits may be earned under this category. certificates issued authorized certification bodies to be submitted by the student to of Department Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) clearly specifying the category for consideration and further to be approved by Dean (SW).

The courses/activities under "Liberal arts courses/cocurricular/extracurricular activities" may be taken during the period from 1st semester to 7th Semester B.Tech at student's convenience. However registration for these courses have to be done in the seventh semester. The certificates may be submitted by the student to the Department Physical of Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) with due

course during 1st/ 2nd semester (c) Seminar: 1 credit. The student make presentations topics of academic interest. (d) Practical Training: 1 Credit. The student may complete the training before the beginning of the 7th semester (or stipulated by the DUGC) and register for in 7th it Semester. The duration and the details shall be decided by the Faculty Advisor with approval from DUGC.

(e) Introduction to Design Thinking (ME (2-0-0)100): Credits. This course will be coordinated by Department of Mechanical Engg., with course instructors from the various B.Tech offering Programme Departments. The student is required to complete this course during 1st/ 2nd semester. (f) "Liberal arts courses /cocurricular/extracurri cular activities": This is a 10-credit course. The students are required to earn minimum 10 credits under "Liberal arts courses/cocurricular /extracurricular activities" The arts Liberal courses/ cocurricular/extracurricular activities may be categorized as follows:



forwards, recommendations and approvals from the appropriate authority as specified above.

The procedure and the time of submission of the certificates may be framed by the Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) with approval from Dean(SW).

A consolidated grade sheet for all the registered students for each of the B Tech programme, mentioning the credits earned in each category and the total credits with S/N grades may be sent in a prescribed format to the Office of Dean (Academics) by the Department of Physical Education and Sports (Proposed to be renamed as Department of Physical Education, Sports and Student activities) with approval from Dean(SW).

CATEGORY A:
Sports/club
activities/organizing
Institute level
programmes/NSS Maximum 3 credits
may be earned under
this category of
activities with credit
allocation as follows:

- Participation in club activities /NSS/ competitions held by the club 1 credit per participation
- Member of a Club -2 credits per membership
- Organizing team members of Institute events like INCIDENT/ Engineer/club office bearers - 3 credits per membership
- Participation
 in state/National
 /International level
 competitions / paper
 presentation/Model
 building
 competitions -3
 credits/
 participation

All the certificates under this category are to be submitted by the student to Department of Physical Education and Sports clearly specifying the category for consideration, through the faculty advisor for the respective club/Committee and further be to approved by Dean (SW).

CATEGORY B: NCC or YOGA courses offered by the



Institute - Maximum 3 credits.

The certificates under this category are to be submitted by the student to Department of Physical Education and Sports clearly specifying the for category consideration, NCC through Officer/Yoga Instructor of the Institute, as applicable and further to be approved by Dean (SW).

CATEGORY C: Certified courses in Languages /Fine arts - Maximum 7 credits may be earned under this category.

The certificates issued by authorized certification bodies to be submitted by the student to School of Management clearly specifying the category for consideration.

The courses/ activities under "Liberal arts courses/cocurricular/ extracurricular activities" may be taken during the period from 1st semester 7th to Semester B.Tech at student's convenience. However registration for these courses have to be done in the seventh semester. The certificates may be submitted by the student to the Department of Physical Education and Sports/School

of management as applicable with due forwards, recommendations and approvals from the appropriate authority specified above. The consolidated credits earned by all the registered students for each of the B Tech programme, mentioning the credits earned in Category A and B to be sent by Department of Physical Education and Sports with approval from Dean (SW) to Office of Dean (Academics).

consolidated The credits earned by all registered the students for each of the B Tech programme, mentioning the credits earned in Category C to be sent by School of Management to Office of Dean (Academics).

BOS.36.2.3

Deletion of Clause 3.4

Curriculum 2020 -B .Tech Regulations: Clause 3.4. Co-curricular and/or Extracurricular activities:

These are noncredit courses, with multiple options, to be completed

at student's convenience. The student shall complete a total of at least 2 items (with at least one from each of the two groups) described below. On successful completion, certificate regarding the activity that a student has participated in, may be issued by the Faculty in-charge of that particular With activity. the recommendation of the Faculty in-charge of Co-Curricular /

Extra-Curricular Activities, the

In view of inclusion of "Liberal arts courses /co-curricular/ extracurricular activities" in Clause 3.2, The BOS resolved to recommend the deletion of Clause 3.4 in Curriculum 2020-B.Tech Regulations from the AY-2021-22.

The Senate resolved to approve the BoS recommendation.



Dean (Students Welfare) may the Report of Satisfactory Completion of such Co-Curricular and Extra-Curricular Activities.

The Co-curricular/Extracurricular Activities are compulsory degree requirements.

Co-Curricular 1: Activities, which includes activities in professional societies like IEEE, ISTE, IE, CSI, Department Associations, Lab development, Participation in Paper

Presentation, Model Building, etc.

Extra-Curricular 2: Activities, such as NSS, NCC, NSO, Community Services, Social work, Yoga, Meditation, Language Course, Health Care Services, Activities in Alumni Association, Activities INCIDENT, Engineer, Participation in Sports, Games, Various Clubs of Institute, SPICMACAY, etc.

BOS.36.2.4

Modification in Clause 3.5

Curriculum 2020 -B.Tech Regulations: Clause 3.5

Lower and Upper Limits for Course Credits Registered in a Semester/Session, by a Full time Student of the B.Tech. Degree Programme:

A full time student of the B.Tech. degree programme must register for a minimum of 12 credits, and up to a maximum of 30 credits. However minimum/maximum credit limit can be relaxed by the Dean (Academic) on the recommendations of the DUGC, only under extremely exceptional circumstances. The maximum credits that a student can register in a

Summer session is 16.

The BOS recommend the following modifications in Clause 3.5 of B.Tech Regulations in Curriculum 2020 from AY 2021-22

Lower and Upper Limits for Course Credits Registered in a Semester/Session, by a Fulltime Student of the B.Tech. Degree Programme:

A full time student of the B.Tech. Degree programme must register for a minimum of 12 credits, and up to a maximum of 30 credits. However minimum/maximum credit limit can be relaxed by the Dean (Academic) on recommendations of the DUGC, only under extremely exceptional circumstances. The maximum credits that a student can register in a summer session is 16.

The 10 credits of Liberal arts courses, extra-curricular and

The Senate resolved to approve the BoS recommendation with the following modification:

Lower and Upper Limits for Course Credits Registered in a Semester/Session, by a Fulltime Student of the B.Tech. Degree Programme:

A full time student of the B.Tech. Degree programme must register for minimum of 12 credits, and up to a maximum of 30 credits. However the minimum/maximum credit limit can be relaxed by the Dean (Academic) on the recommendations of the DUGC, only under extremely exceptional circumstances. The

		co-curricular activities (Registered in the 7th semester) are exempted from the count towards the minimum and maximum limit of credits per semester.	maximum credits that a student can register in a summer session is 16. The 10 credits of Liberal arts courses, extra-curricular and co-curricular activities (Registered in the 7th semester) and the MOOC curses are exempted from the count towards the minimum and maximum limit of credits per semester.
BOS.36.2.5	First Year Bachelor of	The BOS resolved to	The Senate resolved
	Technology	recommend the following	to approve the BoS
Modification in first year course list	List of Courses Common to All Undergraduate Programmes Foundation Courses (FC)	modification in the First Year curriculum as proposed.	recommendation
and	Basic Science Core (BSC)	First Year Bachelor of Technology	
suggested	MA110 Engineering Mathematics(3-0-0) 3	List of Courses Common to all	
plan of study	-I ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Undergraduate Programmes	
	MA111 Engineering Mathematics(3-0-0) 3	Foundation Courses (FC) Basic Science Core (BSC)	
	PH110 Physics (3-1-0) 4	MA110 Engineering Mathematics –	
	PH111 Physics Laboratory (0-0-2) 1	I (3-0-0) 3	
	CY110 Chemistry (3-0-0) 3	MA111 Engineering Mathematics – II (3-0-0) 3	
	CY111 Chemistry Laboratory (0-0-3) 2	PH110 Physics (3-1-0) 4	in the second second
	Engineering Science Core (ESC) WO110 Engineering Mechanics (3-0-0) 3	PH111 Physics Laboratory (0-0-2) 1	
	ME111 Engineering Graphics (1-0-3) 3	CY110 Chemistry (3-0-0) 3	
	CS110 Computer Programming (3-1-0) 4 CS111 Computer Programming (0-0-2) 1	CY111 Chemistry Laboratory (0-0-3) 2 Engineering Science Core (ESC)	
	Lab Humanities and Social Science	WO110 Engineering Mechanics (3-0-0) 3	
	Core (HSC)	ME111 Engineering Graphics (1-0-3) 3	
	SM110 Professional (3-0-0) 3 Communication	Humanities and Social Science Core (HSC)	
	Mandatory Learning Courses	SM110 Professional	
	(MLC) CV110 Environmental Studies (1-0-0) I	Communication (3-0-0) 3	
	SM111 Professional Ethics and	Mandatory Learning Courses (MLC) CV110 Environmental Studies (1-0-0) 1	
	Human Values (1-0-0) 1	SM111 Professional Ethics and (1-0-0) 1	
	EC100 Elements of Electronics an Communication Engineering (2-0-0)2	Human Values ME 100 Introduction to Design (2-0-0) 2 Thinking	
	(For Computer Science, Mechanical, Civil, Mining, Metallurgy, Chemical Engineering	Other courses under Engineering Science core	
	branches only)	(ESC)	
	EE110 Elements of Electrical	Computer Programming	
	Engineering (2-0-0)2 (For Computer Science, Mechanical, Civil,	courses under ESC	
	Mining, Metallurgy, Chemical Engineering	(Set 1 or Set 2 as specified by the	
	branches only)	Department offering	
	ME110 Elements of Mechanical Engineering	the B.Tech	
	(2-0-0)2 (For Computer Science, IT, E &C, E & E,	· Programme)	
	Civil, Mining, Metallurgy, Chemical	Set 1	
	Engineering branches only)	CS110	
		C Programming (3-0-0) 3	

		C Programming (0-0-3) 2 Lab OR
		Set 2 CS 100 Python (3-0-0) 3 Programming
		CS101 Python Programming Lab
		EC 100 Elements of (2-1-0) 2 Electronics and Communication Engineering
		(For Mechanical, Civil, Mining, Metallurgy, Chemical Engineering branches only)
		EE110 Elements of (2-0-0) 2 Electrical Engineering
		(For Mechanical, Civil, Mining, Metallurgy, Chemical Engineering branches only)
		ME110 Elements of (2-0-0) 2 Mechanical Engineering
	v	(For IT, AI, E &C, E & E, Civil, Mining, Metallurgy, Chemical Engineering branches only)
		Suggested plan of study for Ist year (BOS Annexure I)
BOS.36.2.6 Minor Programme n B.Tech:	Curriculum 2020 -B .Tech Regulations :Clause 3.7. Minor programme in B Tech a) A student in a particular	The BOS resolved to recommend the following modification in Curriculum 2020-B.Tech Regulations: Clause 3.7 from AY 2021-22.
Modification in Clause 3.7.	discipline can take additional specified courses totaling 15 to 20	Minor programme in B Tech
	credits in other disciplines. If he/she gets a GPA of 7.0 in these	A) A student in a particular discipline can take additional specified courses totaling 15
	courses, then it will find a mention in their grade cards and degree certificate.	to 20 credits for, a) Minor in other disciplines where all the courses are offered by a department
α	b) A student can opt for Minors in Third Semester	other than his/her parent department or
	and register for Minor Courses (Mn) from Third to Eighth Semesters.	b) Interdisciplinary Minor where courses are offered by two or more
	Students who have cleared all the courses of first and second semester	departments or c) Minor in Niche areas in
	in first attempt and have obtained a CGPA ≥ 7 and GPA (of common courses	A) If he/she gets a GPA of 7.0 in
	in the first year) ≥ 7.0 are eligible to register for minor courses.	these courses, then it will find a mention in their grade cards and degree certificate.
	c) Allotment of minor will be based on merit list	B) A student can opt for Minors



	prepared on the basis of GPA of common courses in the first year. d) In case a student does not get a GPA of 7.0 in minor courses, then these courses can be counted towards their elective credit requirement.	for Minor Courses (Mn) from Third to Eighth Semesters. Students who have cleared all the courses of first and second semester in first attempt and have obtained a CGPA ≥ 7 and GPA (of common courses in the first year) ≥ 7.0 are eligible to register for minor courses. C) Allotment of minor will be based on merit list prepared on the basis of GPA of common courses in the first year. D) In case a student does not get a GPA of 7.0 in minor courses, then these courses can be counted towards their elective credit requirement.	
BOS.36.2.7 Course Syllabus for ME 100 Introductio n to Design Thinking Proposed by Department of Mechanical		The BOS resolved to recommend the course syllabus for ME 100 Introduction to Design Thinking proposed by the Department of Mechanical Engineering. BOS Annexure IV Page 41-44	The Senate resolved to approve the BoS recommendation
Engineering BOS.36.2.8 Course Syllabus for CS 100 Python programming and CS 111 Python programming lab Proposed by Department of Computer Science and Engineering		The BOS resolved to recommend the course syllabus proposed by the Department of Computer Science and Engineering for the following courses CS 100 Python programming (3-0-0) 3 CS 101 Python programming lab (0-0-3) 2 BOS Annexure VII Page 23-28	
BOS.36.2.9 Introduction of an Inter- disciplinary Minor in "Machine learning"		The BOS resolved to recommend the proposal to introduce an Interdisciplinary Minor in "Machine learning" with five courses, out of which four compulsory courses being offered by the Departments of IT (one course), CSE (one course) and MACS (two courses) and a fifth course which is discipline specific to be offered by	The Senate resolved to approve the BoS recommendation



BOS Annexure II Page 1-28

ITEM No.: 36-BOS-3: Proposal of Department of Chemistry: Inclusion of a new self study course CY912: Materials Chemistry for Ph.D program.

Resolution of the BoS	Resolution of the Senate	
BOS resolved to recommend the	The Senate resolved to appro	
proposal of Department of Chemistry	the BoS recommendation.	
for inclusion of a new self-study		
course "CY 912: Materials Chemistry"		
in the Ph.D curriculum.		
BOS Annexure XII Page 1-3		

ITEM No.: 36-BOS-4: Proposals of Dept. of Civil Engineering

Resolution of the BoS	Resolution of the Senate
	The Senate resolved to approve
BOS resolved to recommend the inclusion	the BoS recommendation.
of the following electives in the list for	
UG programme.	
i) CV325 Structural Masonry and Alternative Building Technologies (3-0-0)3	
ii) CV376 Disaster Management with Spatial Method (3-0-0)3	
The details are enclosed as BOS Annexure III Page 28-29	

(b) Change of Course code of existing course in the B.Tech curriculum

Resolution of the BoS	the BoS recommendation.
The BOS resolved to recommend the proposal of Department of Civil Engineering to change of Course code of existing elective course from CV476 Disaster Management and Mitigation to CV326.	
The details are enclosed as BOS Annexure III Page 29-30	

Resolution of the BoS Resolution of the BoS The BOS resolved to recommend the proposal of Department of Civil Engineering for the inclusion of 900 level courses listed in the Annexure in the Ph.D curriculum. The details are enclosed as BOS Annexure III Page 31-34 Resolution of the Senate The Senate resolved to approve the BoS recommendation.

ITEM No.: 36-BOS-5 Proposals of Department of Computer Science and Engineering

Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of department of Computer Science and Engineering to introduce the following new Elective course for the M.Tech program in CSE and CSE-IS from 2021 – 22 onwards. CS741 - Next Generation Cloud Architecture (3-1-0) 4 The details are enclosed as BOS Annexure VII Page 29-32	The Senate resolved to approve the BoS recommendation.

VII Page 33-35

b) Inclusion of 900 level Courses in the curriculum for Ph.D program

Resolution of the BoS Resolution of the Senate Senate resolved The The BOS resolved to recommend the the BoS approve proposal of the Department of Computer recommendation. Science and Engineering to include the following 900 level courses curriculum for Ph.D program CS930 Quantum Computation (4-0-0) 4 ii) CS931 Reversible Computation (4-0-0) 4 iii) CS932 Advanced Cloud Architecture (4-0-0)4The details are enclosed as BOS Annexure

c) To offer specialization under B.Tech CSE degree wherein students have to earn additional 20 credits

Resolution of the BoS	Resolution of the Senate
The Department of Computer Science and Engineering had proposed to offer specialization under B.Tech CSE degree wherein students have to earn additional 20 credits in one the following proposed stream in addition to the minimum credits to be earned for B.Tech Degree.	The Senate resolved to approve the BoS recommendation.
Specialization in Artificial Intelligence and Machine Learning Basket 1: CS312, CS320, CS422, CS423, CS490	
Specialization in Distributed and Cloud Computing	
CS362, CS363, CS428, CS430, CS491	
Specialization in Cyber-Physical	

Systems

CS412, CS415, CS460, CS461, CS492

Specialization in Networking

CS359, CS433, CS435, CS469, CS493

Specialization in Security

CS311, CS418, CS463, CS427, CS470

The BOS resolved to recommend that the Department of Computer Science and Engineering may offer these specializations as Minor programme for B.Tech Computer Science and Engineering students under the category of "Minor in Niche areas", wherein students have to earn additional 20 credits in one of the above streams in addition to the minimum credits to be earned for B.Tech Degree.

The details are enclosed as BOS Annexure VII Page No. 4 & 7

(d) Introduction of Two MATHS courses as program core course for B.Tech degree programme

Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of Department of Computer Science and Engineering to introduce the following two MATHS courses as program core course for the B.Tech degree programme in Computer Science and Engineering.	The Senate resolved to approve the BoS recommendation.



MA 208 (3-0-0) 3 - Probability Theory and Applications

MA 204 (3-0-0) 3 - Linear Algebra and Matrices

The details are enclosed as BOS Annexure VII
Page No.4

(e) To include Capstone and mini projects in the curriculum for B. Tech

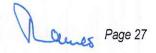
Resolution of the BoS Resolution of the Senate The Senate resolved The BOS resolved to recommend the approve the BoS proposal of Department of Computer recommendation. Science and Engineering to include the following Cornerstone/capstone and mini projects (Optional) in the curriculum for B.Tech Mini projects - CS 300, CS 350, CS 400, CS 450 - Maximum 4 credits Cornerstone/capstone Project - CS 401 -4 credits The details are enclosed as BOS Annexure VII Page No.7

(f) To provide option to do the major projects either during 7^{th} and 8^{th} semester

The BOS resolved to recommend the proposal of Department of Computer Science and Engineering to provide an option to do the major project either in the institute or in the industry, either during VII or VIII semester.

The details are enclosed as BOS Annexure VII Page No.4

The Senate resolved to approve the BoS recommendation.



ITEM No.: 36-BOS-6 Proposals of Department of Electrical and Electronics Engineering

		Resolution of	the BoS	Resolution of the Senate
he De Enginee	partme	nt of Electric o rename the	nend the proposal of cal and Electronics courses pects of the course.	The Senate resolved to approve the BoS recommend
Course Code	L-T-P (Credits)	Existing/Present name of the course (As per Curriculum 2020)	New name resolved to be implemented	ation.
EE213	(3-1-3) 6	Electrical Machines - I	Induction Motors and Transforms	
EE258	(3-1-3) 6	Electrical Machines - II	Synchronous Machines and DC Machines	
EE265	(3-1-0) 4	Power System Engineering-I	Power Transmission and Distribution	
EE350	(3-1-0) 4	Power System Engineering-II	Power System Analysis	
EE430	(3-1-0) 4	Robot Dynamics and	Introduction to Robot Dynamics and Control	
EE432	(3-1-2) 5	Machine Learning	Introduction to Machine Learning	
EE476	(3-1-0) 4	Optimization Techniques	Introduction to Nonlinear and Linear Optimization	
			nnexure VIII Page No.11 quirements in B.Tech Cu	urriculum
		Resolution of	the BoS	Resolution
				of the Senate
Departi for the f	ment of	Electrical and	nend the proposal of the Electronics Engineering Degree Requirements for the	The Senat resolved t approve th BoS



Category of Courses	Minimum Credits to be Earned	Asper Curriculum 2020:Minimum Credits to be Earned	ation.
Foundation Courses (FC)			
Basic Science Core (BSC)	16	16	
Engineering Science Core (ESC)	13	13	
Humanities and Social Science Core (HSC	9	9	
Programme Core (PC)	64	64	
Electives (Elective courses*/ Mini Projects** /MOOC/GIAN/NPTEL Courses***)	38	37	
Project (MP): Major Project	6	6	
Mandatory Learning Courses (MLC)****	16	5	
Total	162	150	

Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of the Department of Electrical and Electronics Engineering to change the credits of EE498 Practical Training from existing 2 credits to one credit as per suggested recent guidelines related to MLCs. The details are enclosed as BOS Annexure VIII Page No.9	The Senate resolved to approve the BoS recommendation

(d) Changes in listing of Programme Specific Elective (PSE) courses to segregate Design and Development Task under the sub heading "Mini Projects"

Resolution of the BoS	Resolution of the Senate	
The BOS resolved to recommend the proposal of the Department of Electrical and Electronics Engineering to segregate and list the following of Programme Specific Elective (PSE) courses under the sub heading "Mini projects". EE 347 Design & Development task in Control Systems (0-0-3) 2 EE 348 Design and Development Task in	The Senate resolved to approve the BoS recommendation.	



Power Electronics & Drives (0-0-3) 2

EE 397 Design & Development task in Signal Processing (0-03) 2

EE 398 Design and Development task in Power Systems (0-0-3) 2

The details are enclosed as BOS **Annexure VIII Page**No.12

(e) Changes in indicating the course requirements of the Honors Degree of EED

Resolution of the BoS	Resolution of the Senate	
The BOS resolved to recommend the proposal of the Department of Electrical and Electronics Engineering to add a note indicating the course requirements of the Honors Degree of EED and to eliminate existing listing of PG courses from the UG curriculum	The Senate resolved to approve the BoS recommendation.	
The details are enclosed as BOS Annexure VIII Page No.13		

ITEM No.: 36-BOS-7 Proposal of Department of Electronics and Communication Engineering

Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of the Department of Electronics and Communication Engineering to introduce the following new Elective courses for B.Tech (ECE): i) EC 360 Machine Learning for Wireless Communication Systems (3-1-0) 4	The Senate resolved to approve the BoS recommendation.



compressive sensing (3-1-0) 4

- iii) EC 362 Deep Reinforcement Learning (3-1-0) 4
- iv) EC 363 Machine Learning Applications in Radar Signal Processing (3-1-0) 4

The details are enclosed as BOS Annexure VI Page No. 9-12

(b)To permit M.Tech students to earn elective credits from the MOOC (NPTEL – SWAYAM) courses

The BOS resolved to consider the proposal of the Department of Electronics and Communication Engineering permit M.Tech to students to earn elective credits from the MOOC (NPTEL - SWAYAM) courses and recommended that students of all the PG programmes be permitted may to earn maximum 3 credits from the MOOC (NPTEL - SWAYAM) courses towards elective credit requirements. Further, it is recommended that the credits earned through MOOC courses should not be included for CGPA calculations.

The Senate resolved to approve the BoS recommendation.

The details are enclosed as BOS Annexure VI Page No. 13

(c) Inclusion of new Elective Courses for M. Tech program

The BOS resolved to recommend the proposal of the Department of Electronics and Communication Engineering for the inclusion of the following new Elective Courses for the M.Tech programs:

The Senate resolved to approve the BoS recommendation.



CEN Streams

- i) EC 851 Smart Antennas for Mobile Communication (3-1-0) 4
- ii) EC 852 Synchronization in Wireless Communication Systems (3-1-0) 4
- ii) EC 853 Channel Modelling and Equalizer Design for Wireless Communication (3-1-0) 4

SPML Streams

- i) EC 878 Computer Algorithms and Data Structures (3-0-2) 4
- ii) EC 879 Compressed Sensing and Sparse Signal Process (3-1-0) 4
- iii) EC 880 Deep Learning in Radar Signal Processing (3-1-0) 4

The details are enclosed as BOS Annexure VI Page No. 13-16

(d) Inclusion of Self Study courses for Ph.D program

Resolution of the BoS Resolution of the Senate The Senate resolved to approve The BOS resolved to recommend the BoS recommendation. the proposal of the Department of Electronics and Communication Engineering to include the following 900 level courses for Ph.D program i) EC 912 Advanced Coding Techniques for Wireless and Storage Systems 4 ii) EC 913 Machine Learning for Signal Processing 4 iii) EC 914 Algorithms for Satellite Image Processing 4 The details are enclosed BOS as Annexure VI Page No. 16-18



ITEM No.: 36-BOS-8 The proposal of the Department of Information Technology

	n Technology	
a) Change in Course codes of B. Tech (AI) program		
Resolution of the BoS	Resolution of the Senate	
The BOS resolved to recommend the changes in the course codes of B.Tech in Artificial Intelligence programme proposed by Dept. of Information Technology in order to follow the Institute guidelines on course codes. The details are enclosed as BOS Annexure V Page No. 1	The Senate resolved to approve the BoS recommendation.	
b) Introduction of new 900 level co	Resolution of the Senate	
The BOS resolved to recommend the proposal of Department of Information Technology to introduce the following new 900 level courses 1. IT933 Visual Computing -4 credits 2.IT935 Quantum Computing -4 credits 3. IT936 Blockchain Technology - 4 credits 4. IT934 Computational Finance- 4 credits	The Senate resolved to approve the BoS recommendation.	
The details are enclosed as BOS Annexure V Page No. 39-44		

ITEM No.: 36-BOS-9: Proposals of Department of Mechanical Engineering

a) Introduction of new UG program Elective courses -		
Resolution of the BoS	Resolution of the Senate	
The BOS resolved to recommend the proposal of department of Mechanical Engineering to introduce the following new elective courses:	The Senate resolved to approve the BoS recommendation.	



1. ME 432 : Analytical Mechanics (3-0-0) 3	
2. ME 433 : Condition Monitoring (3-0-0) 3	
3. ME 434 : Micro fluidics (3-0-0) 3	
4. ME 435 : Solar Energy (3-0-0) 3	
5. ME 436: Engineering Tribology (3-0-0) 3	
6. ME xxx : Thermal Stress Analysis (3-0-0) 3	
The details are enclosed as BOS Annexure IV Page No. 2-8	

b) Removal of PSEG restriction for M. Tech Elective courses

Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of department of Mechanical Engineering to remove the PSEG1 and PSEG2 restriction for M.Tech elective courses.	The Senate resolved to approve the BoS recommendation.
The details are enclosed as BOS Annexure IV Page No. 9-10	
c) The change in the title of the course ME 419	
The BOS resolved to recommend the proposal of department of Mechanical Engineering to change the title of the course	The Senate resolved to approve the BoS recommendation.
ME 419: Processing of Composites as	
ME 419 Composite Materials	
as the syllabus contains Mechanics of the Composites as well.	
The details are enclosed as BOS Annexure IV Page No. 1 & 15	harring him
(d) Changes in the course contents in ME 252 and	ME 303

Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of department of Mechanical Engineering to change the course content of the following courses	The Senate resolved to approve the BoS recommendation.



ME 252: Analysis and Design of Machine Components (3-1-0) 4

ME 303: Design of Mechanical Drives (3-0-0) 3

The details are enclosed as BOS Annexure IV Page No.

16

(e) Changes in the course content of ME 205: Workshop Practice (0-0-3)2

Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of department of Mechanical Engineering to change the course content of ME 205: Workshop Practice (0-0-3) 2	The Senate resolved to approve the BoS recommendation.
The details are enclosed as BOS Annexure IV Page No. 17	

f) Reshuffling of courses and changes in the course codes in the current course structure of B.Tech

The BOS resolved to recommend the proposal of department of Mechanical Engineering for reshuffling of the courses and changes in the course codes in the current course structure of B.Tech.

The Senate resolved to approve the BoS recommendation.

Existing code	Code to be change to
ME 305 Control Engineering (3-0-0) 3	ME 353 Control Engineering (3-0-0) 3 Core
ME 353 Automation Systems (3-0-0) 3 Core	ME 415 Automation Systems (3-0-0) 3 Elective
ME 313 Mechatronic Systems (3-0-0) 3 Elective	ME 305 Mechatronic Systems (3-0-0) 3 Core
ME 415 Hydraulics and Pneumatic Control (3-0-0) 3 core	ME 313 Hydraulics and Pneumatic Control (3-0-0) 3 Elective

The details are enclosed as BOS Annexure IV Page No.

18

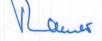


ITEM No.: 36-BOS-10 Proposals of Department of Metallurgical and Materials Engineering

Resolution of the BoS	
Resolution of the Bos	Resolution of the Senate
The BOS resolved to recommend the proposal of Department of Metallurgical and Materials Engineering to rename the following course: MT 723 "Synthesis Techniques for Nanomaterials as "Synthesis of Nanomaterials and Nanostructures The details are enclosed as BOS Annexure X Page No. 1-3	The Senate resolved to approve the BoS recommendation.
b) Renaming of PG program M.Tech	(Process Metallurgy)
	The Senate resolved to approve

ITEM No.: 36-BOS-11 - Proposals of School of Management.

(a) Introduction of Minor progr Minor in Niche areas	ram in Economics under
Resolution of the BoS	Resolution of the Senate
The BOS resolved to recommend the proposal of School of Management to introduce the Minor program in Economics for students of various B.Tech Programmes with	The Senate resolved to approve the BoS recommendation.



the following courses. Further, BOS resolved to recommend that as this programme is offered to B.Tech students, it may be considered under the "Minor in other disciplines".

i)SM 458 Introduction to Industrial Economics and Organization (3-0-0) 3

ii)SM 460 Microeconomics (3-0-0) 3

iii)SM 461 Macroeconomics (3-0-0) 3

iv)SM 462 Financial Economics (3-0-0) 3

v)SM463 Development Economics (3-0-0) 3

The details are enclosed as BOS Annexure XIII Page No. 2-6

Resolution of the BoS

(b) To change the course code of Minor in Management Courses to make it different from the MBA courses

The BOS resolved to recommend the proposal of Department School of Management to change the course code of Minor in Management Courses to make it different from the MBA courses. The BOS further recommended that all the minor programme courses may have a department specific course code with suffix M, as resolved in the 50th Senate meeting. The details are enclosed as BOS Annexure XIII Page No. 2-6

The Senate resolved to approve the BoS recommendation.

Resolution of the Senate

(c) To remove the syllabus of SM869 Merger and Acquisitions from the MBA curriculum

Resolution of the BoS The BOS resolved to recommend		Resolution of the Senate The Senate resolved to approve			
			the	proposal	of



Management to remove the syllabus of SM869 Merger and Acquisitions from the MBA curriculum.

The details are enclosed as BOS **Annexure** XIII Page No. 2-6

(d) To change the restriction for elective courses from different baskets for MBA program

Resolution of the Senate Resolution of the BoS The Senate resolved to approve The BOS resolved to recommend the BoS recommendation. School of the proposal Management to have 4 elective courses from one basket, 2 from another basket and one each from the remaining baskets of the MBA electives for the 3rd and 4th semester as against existing 3 electives from one basket and remaining courses from other baskets subject maximum 2 courses per basket. The details are enclosed as BOS Annexure XIII Page No. 7

ITEM No.:36-BOS-12: Proposals of SAS officers recommended by Dean (SW).

Resolution of the BoS	Resolution of the Senate
(a) Renaming of the existing "Dept. of Physical Education & Sports" as "Department of Physical Education and Sports Activities - The BOS resolved to consider the proposal of SAS Officers recommended by of Dean (SW) to rename the "Dept. of Physical Education & Sports" and recommended to rename it as "Department of Physical	The Senate resolved to consider the BoS recommendation to rename the "Dept. of Physical Education & Sports" as "Department of Physical Education, Sports and Student Activities" and to recommend the same for approval by BOG.

Education, Sports and Student Activities" so as to cater to fulfill the academic requirements as per the revisions proposed for NEP 2020 implementation, by offering the MLC course on Liberal Arts courses/cocurricular, extracurricular activities.

The details are enclosed as BOS Annexure XIV Page No. 1-3

(b) Inclusion of new MLC courses under NEP 2020

The BOS resolved recommend the proposal of SAS for the inclusion of new MLC Officers courses listed in the Annexure under the new curriculum 2021-22. However, it is resolved that these components may be considered under Category A of the MLC course on Liberal Arts courses/cocurricular, extracurricular activities and the credits assigned may considered while awarding the credits to students for these activities under category The details are enclosed as BOS A. Annexure XIV Page No. 1-3

The Senate resolved to approve the BoS recommendation to not consider the proposal of SAS for the inclusion of Officers new MLC courses listed in the Annexure under the curriculum 2021-22 and only to consider the these components credits under and the applicable categories of the MLC course on Liberal Arts courses/co-curricular, extracurricular activities.

ITEM No.: 36-BOS-13 Modification in Curriculum for B.Tech Degree for all the Programmes: Modification in list of course, suggested plan of study and Degree requirements to accommodate the proposed revisions as per NEP-2020 guidelines

Resolution of the BoS	Resolution of the Senate
a) Chemical Engineering (CH)	The Senate resolved to approve
The BOS resolved to recommend the	the BoS recommendation.
modification in the revised curriculum	
structure and contents for B.Tech program	
in Chemical Engineering.	
The details are enclosed as BOS Annexure XI	
Page No. 1-6	

Leures

Resolution of the BoS	Resolution of the Senate
(b) Civil Engineering (CV)	The Senate resolved to approve
	the BoS recommendation.
The BOS resolved to recommend the modification in the revised curriculum structure and contents for B.Tech program in Civil Engineering. The details are enclosed as BOS Annexure III Page No. 10-27	

Resolution of the Senate
The Senate resolved to approve the BoS recommendation.
ı

Resolution of the BoS	Resolution of the Senate
(d) Electrical and Electronics Engineering (EE)	The Senate resolved to approve the BoS recommendation.
The BOS resolved to recommend the modification in the revised curriculum structure and contents for B.Tech program in Electrical and Electronics Engineering. The details are enclosed as BOS Annexure VIII Page No. 1-8	

Resolution of the BoS	Resolution of the Senate
(e) Electronics and Communication	The Senate resolved to approve
Engineering (EC)	the BoS recommendation.
The BOS resolved to recommend the	
modification in the revised curriculum	
structure and contents for B.Tech program	
in Electronics and Communication	
Engineering.	
The details are enclosed as BOS Annexure VI	
Page No. 1-8	

Resolution of the BoS	Resolution of the Senate



(f) Information Technology (IT)

The BOS resolved to recommend the modification in the revised curriculum structure and contents for

(i) B.Tech program in Information Technology and

(ii) B.Tech program in Artificial Intelligence Further, it is resolved to recommend that the students of B.Tech (IT) should not be allowed to take Minor in AI and vice versa. The students of B.Tech (AI) should not be allowed to take the interdisciplinary Minor in Machine Learning.

The details are enclosed as BOS Annexure V Page No. 2-38

The Senate resolved to approve the BoS recommendation.

Resolution of the BoS	Resolution of the Senate
(g) Mechanical Engineering (ME)	The Senate resolved to approve
The BOS resolved to recommend the modification in the revised curriculum structure & contents for B.Tech. program in Mechanical Engineering. The details are enclosed as BOS Annexure IV Page No. 10-14 & 20-35	the BoS recommendation.
Resolution of the BoS	Resolution of the Senate
(h Metallurgical and Materials	The Senate resolved to approve
Engineering (MT)	the BoS recommendation.
The BOS resolved to recommend the	
modification in the revised curriculum	
structure and contents for B.Tech program	
in Metallurgical and Materials	
Engineering Engineering.	
The details are enclosed as BOS Annexure X	
Page No. 4-6	

Resolution of the BoS	Resolution of the Senate
(i) Mining Engineering (MN) The BOS resolved to recommend the modification in the revised curriculum structure and contents for B.Tech program in Mining Engineering. The details are enclosed as BOS Annexure IX Page No. 1-19	The Senate resolved to approve



ITEM No: 36-BOS-14: Inclusion of External Additional Guides

Resolution of the BoS	Resolution of the Senate				
A) Department of Chemistry The BOS resolved to consider Prof. Abdul Wahab Mohammad Deputy Vice Chancellor, Universiti Kebangsaan Malaysia as an Additional Research Guide for Ms. Pallavi in the Department of Chemistry. BOS Annexure - XV Page No. 1-64	The Senate noted the Bos resolution.				
The BOS resolved to consider Dr. Ramin Rahnemay Farnood, Faculty of Applied Science and Engineering, University of Toronto, Canada as an Additional Research Guide for Mr. P. Satishkumar of Department of Chemistry. BOS Annexure - XV Page No. 65 - 116	The Senate noted the Bos resolution.				

Resolution of the BoS	Resolution of the Senate				
B) Department of Mechanical Engineering	The Senate noted the Bos resolution.				
1. The BOS resolved to consider Dr. Ramana Murthy, Scientist, Aeronautical Development Agency as an External additional Guide for the Ph.D students (under External Registrant category), Mr. Sankaraiah Mada and Mr. B. Gopi Krishna of the Department of Mechanical Engineering. BOS Annexure – XV Page No. 117 – 123 and Page No. 132 - 138					



Resolution of the BoS	Resolution of the Senate		
2. The BOS resolved not to consider Dr. Vijeesh V. Associate Professor, NMAMIT, Nitte as an External Additional Guide for Rajath N. Rao of the Department of Mechanical Engineering. BOS Annexure – XV Page No. 124 - 131	The Senate noted the BoS resolution.		
Resolution of the BoS	Resolution of the Senate		
3. The BOS resolved not to consider Dr. Pulla Kondaiah, Assistant Professor, Mahindra University Hyderabad as an External Additional Guide for Silambarasan M. of the Department of Mechanical Engineering. BOS Annexure – XV Page No. 139 - 144	The Senate noted the resolution of the BoS.		
Resolution of the BoS	Resolution of the Senate		
4. The BOS resolved not to consider Dr. L Ravikumar, Professor, BMS College of Engineering, Bengaluru as an External Additional Guide for Tripti Pachori of the Department of Mechanical Engineering. BOS Annexure – XV Page No. 145 - 156	The Senate noted the resolution of the BoS.		

ITEM No: 36-BOS-15: Inclusion of new Elective course at PG level – Proposal of Department of Physics

Resolution of the BoS	Resolution of the Senate	
Inclusion of new Elective Course at PG level	The Senate resolved to approve the BoS recommendation.	
The BOS resolved to recommend		



the proposal of the Department of Physics to introduce the new Elective at PG Level.

Course Name: Quantum Field

Theory

Course Code: PH873

Credits: 3-0-0

BOS Annexure - XVI Page No. 1 - 3

Item No. 58.3.2: To consider the Modification in B.Tech Regulations for Change of Branch - Reg.

Preamble: The B.Tech Curriculum was revised in 2018. The revised curriculum includes program specific core courses at the first year level. Further, a few of the courses like Elements of Electrical Engineering, Elements of Electronics and Communication Engineering, Elements of Mechanical Engineering are not common to all the branches. In the proposed curriculum for 2021, the Computer Programming courses are also not common. In view of this, the modification in Regulations on the merit list criteria for Change of Branch as recommended by BOS was discussed.

Item	Existing	Proposed Modifications	Senate Resolutions
Change of	Clause 6.2 of B.Tech	B.Tech Regulations-	The senate resolved to
Branch	Regulations-2020.	2021	approve the proposed
Modification	Normally, only those	Normally, only those	Modification in B.Tech
in B.Tech	students will be eligible	students will be eligible	Regulations for Change
Regulations	for consideration of a	for consideration of a	of Branch.
	change of branch after	The state of the s	
	the second semester,	the second semester,	
	who have -	who have –	
	a) completed all the	a) completed all the	
	common credits	credits required in the	
	required in the first two	first two semesters of	
	semesters of their	their studies, in their	
	studies, in their first	first attempt;	
	attempt;	b) obtained a SGPA of	3
	b)obtained a SGPA of	not less than 8.00 (7.00	
	not less than 8.00 (7.00	for SC/ST) in both the	
1134.	for SC/ST) in both the	FIRST as well as the	
	FIRST as well as the	second semester.	
	second semester	B.Tech Regulations-	
	Clause 6.4 B.Tech	2021	
	Regulations-2020. Change of branch shall	Change of branch shall	
143 F 3	be strictly in order of	be strictly in order of	
a j		merit of the applicants.	
	merit of the applicants.	For this purpose the	
	For this purpose the	GPA of all the	
	CGPA obtained at the	common courses	
	end of the second	obtained at the end of	
	semester shall be	the second semester	
	considered.	shall be considered.	
		B.Tech Regulations-	
	Clause 6.5 B.Tech Regulations-2020.	2021	
	A common CGPA list	A common list of GPA	
	shall be prepared at the	of all the common	

end of the second semester ,category wise to consider students for branch change.

Clause 6.6. B.Tech Regulations-2020.

The applicants may be allowed a change in branch, strictly in order of inter se merit, subject to the limitations as given below:

(a) The actual number of students in the third semester in particular any branch to which the transfer is to be made, should not exceed the sanctioned strength and the actual number of students in any branch from which the transfer is being sought does not fall below 75% of the total

courses obtained at the end of the second semester shall be prepared at the end of the second semester, category wise to consider students for branch change.

B.Tech Regulations-2021

The applicants may be allowed a change in branch, strictly in order of inter se merit, subject to the limitations as given below:

- The actual (a) number of students in the third semester in any particular branch which the transfer is to be made, should not exceed the sanctioned strength and the actual number of students in any branch from which the transfer is being sought does not fall below 75% of the total sanctioned intake.
- (b) If a student S! is not permitted to change from branch A to B due



sanctioned to the clause 6.6 9a) intake. above, any other student S2 from any branch with (b) If a student S1 is of common not permitted to courses less than S1 change from will also not be branch A to B permitted to change to due to the clause branch B. 6.6 9a) above, any other student S2 from any branch with CGPA less than S1 will also not be permitted to change to branch B.

Item No. 58.3.3: To consider the Extension of the time limits for the submission of Research proposal, progress reports and thesis of Ph.D and M Tech (Research) – Reg.

Preamble: The Ph.D Research scholars and M.Tech (Res) students were out of the campus due to COVID-19 restrictions and this has hampered their Research work. There were two phases of lock down due to which the students had to stay away from the campus compulsorily: (i) During March 2020 to November 2020, and (ii) during April 2021 to September 2021, totally counting to 13 months. The research work of many students has been delayed due to the above reasons and many of them have not been able to meet the time lines of

Resolution of the Senate

The Senate resolved to approve the proposed extension of the time limits for the submission of Research proposal, progress report and thesis of Ph.D and M.Tech (Research).



proposal submission, progress seminars or thesis submission.

In the E-Senate meeting held in the month of May, 2020 it was resolved to extend the maximum period for the completion of Ph.D and M.Tech (Res) work by an amount equal to the lockdown period at the Institute.

In continuation to the above resolution, it is proposed

- (a) To extend the time limit for submission of proposal by the
- (i) Ph.D scholars admitted in 2018, 2019 and 2020 by a period of lockdown.
- (ii) M.Tech (Res) students admitted in 2019 and 2020 by a period of lockdown
- (b) To extend the time limit for submission of thesis by the
- (i) Ph.D scholars admitted in 2020 or earlier, by a period of lockdown.
- (ii) M.Tech (Research) students admitted in 2020 or earlier, by a period of lockdown.

Item No. 58.3.4: To consider the Conversion of students from Full time

Non-scholarship Category to External Registrant

Category - Reg.

Proposal Resolution of the Senate There are frequent requests from Research The Senate resolved to consider the Conversion of students from scholars who have been admitted under full time Non-scholarship Full time Non-scholarship category and Category to External Registrant who are at different stages of their Ph.D Category with the following condition: Research work for conversion from full To allow conversion of students time to Part time status. Some of them come from Non-scholarship with a job offer in hand and a few without External registrant Category on the basis of recommendation of

Nemes

any. They cite family financial crisis as the Their reason. requests are being recommended by guides and the Department. These cases are likely to increase in near future as we are admitting students under the Full-time nonscholarship category.

The probable options are

(i) To discontinue admissions under non-Scholarship Student category

Or

(ii) To allow conversion of students from Non-scholarship to External registrant Category on the basis of recommendation of Supervisor and DRPC, if the student gets an employment in any organization and produce NOC from them to pursue Ph.D. However, the conversion may be allowed only after submitting one progress report and at least acceptance of one peer reviewed journal publication.

the Supervisor and DRPC, if the student gets an employment in any organization and produce NOC from them to pursue Ph.D. However, the conversion may be allowed only after submitting one progress report and at least one peer reviewed conference/journal publication.

Item No. 58.3.5: To consider the Degree certificate for Minors and Honors Students – Reg.

Proposal	Resolution of the Senate
The first batch of students who have	The Senate resolved to approve
registered for Minor or Honors Programmes	the proposed Title of the Degree
of the Institute will be graduating in 2022.	for those who complete the
The following Title of the Degree is proposed	Minor or Honors Programme
for those who complete the Minor or Honors	requirements.
Programme requirements.	

Vener

For Minors

B.Tech in X with Minor in Y - Where X is the Student's Parent Discipline and Y is the Minor Discipline

For Honors

B.Tech (Honors) in X - Where X is the Student's Discipline

For example,

 If a student of Civil Engineering does Minor in Information Technology then the Degree to be awarded may be

B.Tech in Civil Engineering with Minor in Information Technology

 If a student in Civil Engineering does Honors Programme, then the Degree to be awarded may be

B.Tech (Honors) in Civil Engineering

Item No. 58.3.6: To consider and approve the academic activities of Frist year B.Tech of Academic Year 2021-22 in online mode and to consider the Academic Calendar – Reg.

students is likely to get completed by13th December 2021. The mode of conduct of classes and the Academic calendar has been approved by Chairman, Senate. As approved by the Chairman, the First Semester B.Tech classes would commence from 27th December 2021 in online mode and the Orientation programme would be

conducted during 15th -24th December

Agenda Item

The admission of First year B.Tech

Please refer Annexure II

2021

Resolution of the Senate

The Senate noted considered the approval of Chairman, Senate on the conduct of academic activities of First Semester B.Tech for AY-2021-22 in online mode and the Academic Calendar.

Velumes Page

Item No. 58.3.7: To consider and approve the mode of conduct of academic activities of III year/IV year B.Tech, II and higher years of PG and Ph.D of Academic Year 2021-22 and to consider the Academic calendar-Reg.

Agenda Item Resolution of the Senate The academic session for Even semester of The Senate noted and considered the approval of III year /IV year B.Tech, II and higher years Chairman ,Senate on the mode of PG and Ph.D of Academic Year 2021-22 conduct of of academic would commence from 27th December 2021. activities of even semester of III year/IV year B.Tech, II and The Academic calendar has been approved higher years of PG and Ph.D of by Chairman, Senate. As approved by the Academic Year 2021-22 in Chairman, the classes would be held in Physical mode and the Academic calendar. Further, the Physical mode. Senate resolved to authorize the However, it is proposed that Chairman. Chairman. Senate to approve Senate may be authorized to approve any any changes in the mode of conduct of the classes based on changes in the mode of conduct of the the prevailing circumstances, at classes based on the prevailing a later date based on the circumstances, at a later date before the prevailing conditions at the commencement of their classes based on time of academic sessions. the prevailing conditions at the time of academic sessions. Please refer Annexure III

Item No. 58.3.8:

To consider and approve the Academic calendars for

- (a) II Year B.Tech (Even Semester, Jan-May 2022)
 - (b) I year (Even semester,Feb-June,2022) M.Tech./M.Sc/MBA/Ph.D and IV semester MCA.
- (c) I Year (II Sem) MCA (Even Semester, Feb-July 2022))
- (d) I Year (II Sem B.Tech -2021 admitted) for AY 2021-22 (Even semester)
- (e) Academic Year 2022-23 (Odd semester; July -Dec, 2022) for all except II Year B.Tech (III Sem 2021 admitted)
- (g) Summer Session of AY 2021-22 for IV Year B Tech,-Reg.

	Agenda Item	Resolution of the Senate
•	The Academic session for II Year B.Tech (Odd	The Senate resolved to consider
e	Semester) would end on 14 th January 2022. It is	Academic Calendars
	proposed to start the academic session for II	Further, the Senate resolved that the mode of conduct of



Year B.Tech (Even Semester) from 17th January 2022 and to consider the Academic Calendar presented in Annexure IV(1)

- The Academic session for Ist year (Odd semester) M.Tech./M.Sc/MBA/Ph.D and III semester MCA would end on 4th February 2022. It is proposed to start the academic session for Ist year (Even semester-II Sem) M.Tech./M.Sc/MBA/Ph.D and IV semester MCA from 7th February 2022and to consider the Academic Calendar presented in Annexure IV(2)
- The Academic session for I Semester MCA for the AY 2021-22 would end on 25th February 2021. It is proposed to start the II semester MCA classes (Even Semester of AY 2021-22) from 28th February 2022 and to consider the Academic Calendar presented in Annexure IV(3)
- It is proposed to Start the academic session for II Semester B.Tech (2021 admitted) for Academic Year 2021-22 (Even semester) from 16th May 2022 and to consider the Academic Calendar presented in Annexure IV(4)
- The academic calendar (July Dec, 2022) for Academic Year 2022-23 (Odd semester) for all the years of B.Tech, PG, Ph.D except II Year B.Tech (2021 admitted) and to consider the Academic Calendar presented in Annexure IV(5)
- To consider the Summer Session Calendar for IV
 Year B.Tech for AY-2021-22 presented in

classes for various programmes and years may be decided at a later date based on the prevailing conditions at the time of academic sessions.



Annexure IV (6) Further, it is proposed to decide on the mode of conduct of classes for various programmes and years at a later date before the commencement of their classes based on the prevailing conditions at the time of academic sessions.

Item No. 58.3.9: To consider the Honoris Causa Degree Certificate awarded to Sri Suhas Lalinakere Yathiraj

Agenda Item	Resolution of the Senate
The format, content and assignment of	The Senate resolved to consider
Registration Number of the Degree	the approval of Chairman,
certificate for Doctor of Science (Honoris	Senate for the format, content
	and assignment of Registration
Causa) awarded to Sri Suhas Lalinakere	Number of the Honoris Causa
Yathiraj has been approved by the	Degree Certificate awarded to
Chairman, Senate. The approval and a copy	Sri Suhas Lalinakere Yathiraj.
of the certificate is annexed as $\mbox{\bf Annexure}~\mbox{\bf V}$	

Item No. 58.3.10 To consider and approve the Degree of Ms. Ananya R. Shetty, Roll No. 14IT107 B.Tech Program (2016 batch).

Agenda	Resolution of the Senate
Kum. Ananya R. Shetty had got a	The Senate resolved to consider
provisional admission at NITK Surathkal during 2014-15 under OBC quota for B.Tech in IT. Her OBC certificate was sent to the concerned authorities (Dy. Commissioner, Udupi District) for verification and it was brought to the notice of the Institute that she does not belong to OBC Category but belongs to General Category. Hence the provisional admission letter issued to her was cancelled. Ms.Ananya R. Shetty filed a writ petition	and approve the Degree of Ms. Ananya R. Shetty. However, the Senate resolved that a legal opinion may be sought regarding the consideration of the convocation in which the Degree may be awarded.

against the cancellation of provisional admission.

As per the judgement of the Hon'le High Court of Karnataka, Bangalore vide Writ Petition No. 14514 dated 11-11-2021, the mater pertaining to cancellation of provisional admission order issued to Kum. Annaya R. Shetty has been disposed off after being given a finding that the petitioner belongs to "Nadava Caste". The court further ordered that "Institute is directed to issue the Grade Cards and Degree Certificate to the petitioner". In view of the court order, the admission of the petitioner for the B.Tech program during the academic year 2014-15 has been confirmed and hence OM has been issued for revocation of cancelled admission order. A Provisional Degree Certificate and 8th Semester Grade card has also been issued. She was eligible for the award of degree during the 16th Annual Convocation. However, her degree was not approved by Senate and BOG then. The matter was placed before the Senate to consider and approve the Degree of Ms. Ananya R. Shetty.

Item No. 58.3.11 To consider and approve the modification in Ph.D Degree certificate - Department of MACS.

Proposal					Resolution of the Senate	
The Department of MACS has proposed the					The Senate resolved to consider	
inclusion of only the thesis title in the Ph.D				and approve the proposal of the		
					Department of MACS and	
certificates	and	not	to	mention	the	approved that the Ph.D Degree

Velenas

Department / Faculty with which the certificate of NITK may include only the thesis title without mentioning the Department/ Faculty.

Item No. 58.3.12: To consider the request to condone the delay in Submission of Research Proposal – Reg.

Proposal	Resolution of the Senate		
Ms. Ramya K., Ph.D Research Scholar of Civil Engineering Department has requested to condone the delay in the submission of proposal report due to pandemic situation and personal issues. Reg. No: 187512187CV504 Name: RAMYA K. D.O.J: 11-Jul-2018 Status: Proposal on 09-11-2021	and approve the request to condone the delay in		

Item No. 58.3.13: To consider the list of Panel of Experts for Faculty Recruitment - Reg.

Proposal	Resolution of the Senate
As per the Ministry letter F.No.33-9/2011-	The Senate resolved to consider
TS.III dated 30th November, 2017, the	and approve the list of Panel of
Institute has to create a Panel of Experts by	Experts for Faculty
taking inputs from Department. The list,	Recruitment. Further, the
along with the postal and electronic	Senate authorized the
addresses, designations, specialization and	Chairman, Senate for inclusion
other relevant particulars of proposed	of additional names in the event
experts are placed before the Senate for the	of non-availability of experts in
approval.	the list.

Meeting ended with vote of thanks to the Chair.

(K. Ravindranath) Registrar and Secretary – Senate, NITK

(K. Umamaheshwar Rao) Director and Chairman – Senate, NITK