NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI

(An Autonomous Institution - Affiliated to Anna University Chennai)



THE MINUTES OF THE 9th ACADEMIC COUNCIL

MINUTES OF THE NINETH ACADEMIC COUNCIL MEETING HELD ON 19.05.2018 AT 10.30 A.M. IN THE CONFERENCE HALL OF ADMINISTRATIVE BLOCK, NATIONAL ENGINEERING COLLEGE, KOVILPATTI UNDER THE CHAIRMANSHIP OF Dr.S.SHANMUGAVEL, PRINCIPAL

The following members were present:

Chennai nnai nnai
nnai
nai
r Private
nai
nnai
Tirunelvel
g College

Internal Members	
Dr.K.Manisekar	Dean (Academic), National Engineering College
Dr.K.Kalidasa Murugavel	Prof. & Head / Mechanical, National Engineering College
Dr.D.Ravindran	Prof. / Mechanical, National Engineering College
Dr.A.Shenbagavalli	Prof. & Head / ECE, National Engineering College
Dr.S.Tamilselvi	Prof. & Head / ECE (PG), National Engineering College
Dr.V.Gomathi	Prof. & Head / CSE, National Engineering College
Dr.K.G.Srinivasagan	Prof. / CSE, National Engineering College
Dr.M.Willjuice Iruthayarajan	Prof. & Head / EEE, National Engineering College
Dr.B.Sankaragomathi	Prof. / EIE, National Engineering College
Dr.D.Manimegalai	Prof. & Head / IT, National Engineering College
Dr.C.Puthiyasekar	Prof. & Head / Civil, National Engineering College
Dr.M.A.Neelakandan	Prof. & Head / S & H, National Engineering College
Dr. S.Rammurthy	Prof. / Mathematics, National Engineering College
Dr.L.Kalaivani	Asso. Prof. / EEE, National Engineering College
Dr.S.Sankar Ganesh	Asso. Prof. / IT, National Engineering College
Student Members	
Mr. M.Selva Ganesh	Final year Mechanical
Ms. S.Minu Shruthi	Final year ECE
Ms. M.Bhava Tharani	Final year CSE
Ms. D.R.Divya	Final year EEE
Mr. V.Ramji Kolappan	Final year EIE
Mr. B.Manickam	Final year Civil
Ms. R.Priyadharshini	Final year IT

The Academic Expert member **Dr. T.V.Geetha**, Director/ Academic Courses, Anna University, Chennai, University Nominee members **Dr.V.Abhai Kumar**, Principal, Thiagarajar College of Engineering, Madurai, **Dr.N.G.Ramesh Babu**, Prof. & Head / Bio-Technology, Adhiyamaan College of Engineering, Hosur and Industrial Expert Member **Dr.S.Ganesan**, Additional Director, Combat Vehicles Research and Development

Establishment (CVRDE), Avadi, Chennai could not attend the meeting due to their prior commitments and unavoidable circumstances.

The meeting began with the Principal's (Academic Council Chairman, National Engineering College) welcome address. He outlined briefly the various agenda items to be presented at the meeting. He also described the various committees and Academic meetings held to formulate the structure of the curriculum for the UG degree Programmes offered under Regulation 2019. After the formal welcome, he requested the Director to deliver the Special Address.

The Director while addressing the Council highlighted that the designing of curriculum under Regulation 2019 would be discussed in the Academic Council.

Following the address by the Director, the Dean (Academic) moved the following agenda items on behalf of the Principal.

The following agenda items are considered and approved by the 09th Academic Council

DA 09.01 TO CONFIRM THE MINUTES OF EIGHTH ACADEMIC COUNCIL MEETING HELD ON 02nd DECEMBER 2017

The minutes of the Eighth Academic Council meeting held on 02/12/2017 were communicated to the members vide Email dated 11/12/2017. The comments received have been incorporated and placed for confirmation. The same was approved by the council.

- Minutes of 08th Academic Council
- Action taken report for minutes of 08th Academic Council

DA 09.02 TO CONSIDER AND APPROVE THE AMENDMENTS TO CLAUSE 4.6, 6.2, 7.5 and 15.1 OF REGULATIONS 2015 FOR UG DEGREE PROGRAMMES OF NATIONAL ENGINEERING COLLEGE RESOLVED TO APPROVE the amendments to CLAUSE 4.6, 6.2, 7.5 and 15.1 of Regulations 2015 for UG degree programmes of National Engineering College.

> AMENDMENTS - UG REGULATIONS 2015

DA 09.03 TO CONSIDER AND APPROVE TO HOLD SPECIAL EXAMINATIONS
FOR STUDENTS THOSE WHO MISSED THEIR PAPERS DURING END
SEMESTER EXAMINATIONS OWING TO THEIR PARTICIPATION IN
SPORTS, NCC & NSS EVENTS FROM THE ACADEMIC YEAR 2018-2019
ONWARDS

RESOLVED TO APPROVE to hold special examinations for those students who missed their end semester examinations owing to their participation in national and international level Sports, NCC & NSS events from the academic year 2018-2019 onwards and also to implement after due consideration by standing committee of Academic Council

DA 09.04 TO CONSIDER AND APPROVE THE STRUCTURE OF THE PROGRAMME UNDER REGULATION 2019 AS PER AICTE CURRICULUM MODEL

RESOLVED TO APPROVE the structure of the programme under Regulation 2019 as per AICTE curriculum model

Curriculum structure under R-2019

DA 09.05 TO CONSIDER AND APPROVE TO SWAP THE FOLLOWING COURSES IN THE ODD SEMESTER TO EVEN SEMESTER AND VICE VERSA FOR THE BRANCHES ECE, CSE AND EEE FOR ADMINISTRATIVE REASONS UNDER R-2015

Course Code / Course Title	Purpose										
15SH16C / Engineering Graphics	Swap from 1 ⁸¹ semester to 2 nd										
15SH18C / Engineering Practice Laboratory 15EC25C / 15CS25C / 15EE25C	semester										
C Programming for Engineers 15EC28C / 15CS28C / 15EE28C	Swap from 2 rd semester to 1 st semester										
C Programming Laboratory	70300033989										

RESOLVED TO APPROVE to swap the courses in the odd semester to even semester and vice versa for the branches ECE, CSE and EEE for administrative reasons under R-2015

BUSINESS BROUGHT FORWARD BY THE BOARD OF STUDIES

AGENDA FROM DEPARTMENT OF MECHANICAL ENGINEERING

Dr. K.Kalidasa Murugavel, Chairman, Mechanical Engineering moved the following items based on the decision of the Board of Studies in Mechanical Engineering.

ME 09.01 TO CONSIDER AND APPROVE THE CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the curriculum for UG degree programmes to be offered under R-2019

> B.E. MECHANICAL ENGG. - Curriculum

ME 09.02 TO CONSIDER AND APPROVE THE END SEMESTER EXAMINATION

EVALUATION SCHEME OF THE ELECTIVE COURSE 15ME38E
ADVANCED MODELING TECHNIQUES FOR THE UG DEGREE

PROGRAMMES TO BE OFFERED UNDER R-2015

RESOLVED TO APPROVE the end semester examination evaluation scheme of the elective course 15ME38E – Advanced Modeling Techniques for the UG degree programmes to be offered under R-2015

> 15ME38E - ADVANCED MODELING TECHNIQUES - Scheme

AGENDA FROM DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Dr. A.Shenbagavalli, Chairman, Electronics and Communication Engineering moved the following items based on the decision of the Board of Studies in Electronics and Communication Engineering.

EC 09.01 TO CONSIDER AND APPROVE THE CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the curriculum for UG degree programmes to be offered under R-2019

➤ B.E. ECE - Curriculum

EC 09.02 TO CONSIDER AND APPROVE THE INTRODUCTION OF ADDITIONAL ELECTIVE COURSES IN CURRICULUM FOR PG DEGREE PROGRAMME TO BE OFFERED UNDER R-2015

> RESOLVED TO APPROVE the introduction of additional elective courses in curriculum for PG degree programme to be offered under R-2015

> > M.E. EST – Introduction of Elective courses

AGENDA FROM DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Dr. V.Gomathi, Chairman, Computer Science and Engineering moved the following items based on the decision of the Board of Studies in Computer Science and Engineering.

CS 09.01 TO CONSIDER AND APPROVE THE CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the curriculum for UG degree programmes to be offered under R-2019

> B.E. CSE - Curriculum

AGENDA FROM DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Dr. M.Willjuice Iruthayarajan, Chairman, Electrical and Electronics Engineering moved the following items based on the decision of the Board of Studies in Electrical and Electronics Engineering.

EE 09.01 TO CONSIDER AND APPROVE THE CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the curriculum for UG degree programmes to be offered under R-2019

B.E. EEE – Curriculum

AGENDA FROM DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Dr. B.Sankaragomathi, Chairman, Electronics and Instrumentation Engineering moved the following items based on the decision of the Board of Studies in Electronics and Instrumentation Engineering.

EI 09.01 TO CONSIDER AND APPROVE THE CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the curriculum for UG degree programmes to be offered under R-2019

> B.E. EIE - Curriculum

AGENDA FROM DEPARTMENT OF CIVIL ENGINEERING

Dr. C.Puthiyasekar, Chairman, Civil Engineering moved the following items based on the decision of the Board of Studies in Civil Engineering.

CE 09.01 TO CONSIDER AND APPROVE THE CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the curriculum for UG degree programmes to be offered under R-2019

> B.E. CIVIL - Curriculum

AGENDA FROM DEPARTMENT OF INFORMATION TECHNOLOGY

Dr.D.Manimegalai, Chairman, Information Technology moved the following items based on the decision of the Board of Studies in Information Technology.

17 09.01 TO CONSIDER AND APPROVE THE CURRICULUM FOR UG DEGREE PROGRAMME TO BE OFFERED UNDER R-2019

RESOLVED TO APPROVE the curriculum for UG degree programmes to be offered under R-2019

> B.Tech. IT - Curriculum

ANY OTHER ITEMS, WITH THE PERMISSION OF THE CHAIRMAN OF THE ACADEMIC COUNCIL

The Principal informed the members of the academic council regarding the achievement of the institution and efforts taken to enhance the EDC activities as listed below:

- Entrepreneurship Development Cell was established in the year 2013
- NEC established a Nonprofit Section (8) company " K R Innovation Centre" to Promote Business Incubator activities and Entrepreneurship Cell activities
- NEC is a Host Institute for MSME, New Delhi approved Business Incubator.
 Through this new Innovative Eco system was developed and five Alumnea (incubates) have been funded for 29.39 Lakhs during the year 2016-2017 for the development of five Products
- Institution is approved as New Generation Innovation and Entrepreneur
 Development Centre supported by NSTEDB and DST, New Delhi. Through this, the institution can Support 85 Projects to the worth of 2.5 lakh/project over a period of 5 years (2017 2022) with the total funding of Rs 2.87 Crores
- Two Students Startups 1.Goldenwelkin and 2.Suvadi have been established in the Campus (NEC-Business Incubator)
- Two of our students (Mr. Veera Shanthi Ram.M Final Year EIE Coconut Grading Machine and Mr. Muthu Mariappan.K CSE/ Alumni-Castalk) participated in the Falling Walls Lab India 2018 on 7th April 2018 organized by Jadavpur University Kolkata and the DAAD German Academic Exchange Service and DWIH German House for Research and Innovation New Delhi.
- The Falling Walls Lab India took place at Jadavpur University, Kolkata on 7th April 2018. Sixteen finalists from across the country selected through a rigorous process presented their top notch research and entrepreneurial ideas on themes as varied as but not limited to water problems, climate change, energy conservation, disabilities and impairments, cancer and other diseases, effective processing and production etc.

Veera Shanthi Ram M was adjudged the winner of the Lab. He will represent India to complete with Falling Walls Lab winners from across the world at the global Lab finale that takes place in Berlin on 8th November 2018, and also gets a ticket to the prestigious Falling Walls conference on 9th November where leaders from science, industry and policy-making meet. The trip to Berlin financed by DWIH – German House for Research and Innovation New Delhi.



 NEC Business Incubator Cell has partnered with EDII Ahmedabad for organizing the National Level Startup Summit programme "Empresario Startup Summit 2018" on 10th & 11th March 2018 in EDII, Ahmedabad. In that, the following students of our institution participated in various events conducted by them.

S. No.	Student Members	Purpose
217	H. Muthu Mariappan	Business Plan
2.	K.R. Praveen Krishna	Campus Ambassador, Prototype Funding
3.	S. Robhin Ponarasu	Business Plan
4.	D. Venkatesh	Business Plan
5.	R. Ramesh kumar	Prototype Funding
6	S. Manivannan	Prototype Funding
7.	S. Shunmuga Sundaram	Big Pitch 2.0
8.	S. Mariya Austin	Big Pitch 2.0
6. 7.	S. Manivannan S. Shunmuga Sundaram	Prototype Funding Big Pitch 2.0

 Our student Mr. K.R.Praveen Krishna of second year Mechanical was selected as one of the best Campus Ambassadors of the programme

Points suggested by the Academic Council

 To maintain the ratio of practical and theoretical courses as 30% and 70% in the curriculum respectively.

Appreciated the efforts of Chairmans of various Board of studies for the inclusion of the following courses in the curriculum.

- Agile technology
- Automation
- Deep learning
- Internet of things
- Cloud computing and
- Computer engineering and business system.
- 4. For Electronic Measurement Laboratory course, one theory hour may be given.
- IT workshop can be shifted to 2nd semester in CSE dept.
- For core courses, there is no need to change the standard course name.
- 7. For internship, a minimum of 4 weeks to be allotted.
- 8. Total number of credit may be fixed as 165 for all the programmes.
- Common curriculum and credit should be followed in first semester. Common courses for all the programmes may be named as same.
- Comprehension lab may be shifted to 6th semester in all the programmes.
- For CSE department, discrete structures course may be renamed as discrete mathematics.
- Appreciated the Management, Director, Principal and faculties for taking efforts taken to improve the entrepreneurship and product development activities in the campus.

Members Present

Dr.S.Shanmugavel Academic Council Chairman National Engineering College	Dyngme
Academic Experts	
Dr.L.Karunamoorthy Chairman / Faculty of Mechanical Engineering Anna University, Chennai - 25	Chareta
Dr.M.A.Bhagyaveni Professor / Dept. of Electronics and Communication Engineering Anna University, Chennai - 25	M. d. Blen 1915/18
Dr.R. Senthil Professor / Dept. of Civil Engineering Anna University, Chennai - 25	Brethe 1915/18
Industrial Experts	
Mr.A.K.Pattabiraman Head, Accreditation Process for South India, Tata Consultancy Services Limited Chennai - 98	& Dore
Dr.V.Veerappan Cofounder & President, Tessolve Services Private Limited, Bangalore	0
Mr.R.Dhamodaran Sr. Vice President HCL Services Limited, Chennai - 34	Reamon
Ms.A.Bhanurekha Senior Program Manager WIPRO Limited, Chennai – 32	Dogle
University Nominees	
Dr. Indra Getzy David Principal, Government College of Engineering Tirunelveli - 07	की । विशिष्ट १६
Special Invitees	
Dr.Kn.K.S.K.Chockalingam Director	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Dr.V.Seenivasagam Controller of Examinations	Heria. 5-18
Internal Members	
Dr.K.Manisekar Prof. & Dean (Academic)	h.n-sr Jeele
Dr.K.Kalidasa Murugavel Prof. & Head / Mechanical	Jee Le
Dr.D.Ravindran Prof. / Mechanical	Expert

Dr.A.Shenbagavalli	0.00
Prof. & Head / ECE	6) on
Dr.S.Tamilselvi	J.7-182-1915/18.
Prof. & Head / ECE(PG)	0 -1 915210.
Dr.V.Gomathi	V. CA GISTIE
Prof. & Head / CSE	A- C- 1812
Dr.D.Manimegalai	D. M. TISTOTTIS
Prof. & Head / IT	D, 1 (19)05/18
Dr.K.G.Srinivasagan	400
Prof. / CSE	
Dr.M.Willjuice Iruthayarajan (of identification
Prof. & Head / EEE	12.20) [3] 131.
Dr.B.Sankaragomathi	Almon To
Prof. / EIE	90 1915/18
Dr.C.Puthiyasekar	1-1-50
Prof. & Head / Civil	ate Lighting
Dr.M.A.Neelakandan	1 1
Prof. & Head / S & H	hm O
Dr. S.Rammurthy	At
Prof. / Mathematics	10/11/2
Dr.L.Kalaivani	101 0
Prof. / EEE	Kwit
Dr.S.Sankar Ganesh	0 49
Asso. Prof. / IT	4
Student Members	
Mr. M.Selva Ganesh, Final year Mechanical	1.1.1.1
ivii. W.Selva Garlesii, I irlai year Wechanicai	M. John bragest
Ms. S.Minu Shruthi, Final year ECE	SIGSL
Ms. M.Bhava Tharani, Final year CSE	M. Bhavatharani
Ms. D.R.Divya, Final year EEE	0.86
Mr. V.Ramji Kolappan, Final year EIE	V. Raning Golypons.
Mr. B.Manickam, Final year Civil	Bn L
Ms. R.Priyadharshini, Final year IT	0.0
The second of th	R. Pringadhars L.

CHAIRMAN ACADEMIC COUNCIL

NATIONAL ENGINEERING COLLEGE, K.R.NAGAR, KOVILPATTI (An Autonomous Institution – Affiliated to Anna University Chennai)

Actions Taken Report on Minutes of 8th Academic Council Meeting

S. No.	Action Initiated	Action Taken								
1.	Amendments to clause 5.1, 11.1.1., 11.3.1, Implemented except clause 11.11 and 17.0 of R-2015 for UG degree (Supplementary Examination) programmes									
2.	The introduction of LIVE-IN-LAB in structure of the curriculum for UG degree programmes	Implemented. For Swachh Bharat Abhiyan activities two villages Nalattinputhur and Thonukal were selected by the NSS. Through this, students will participate in the overall cleanliness and in setting up systems for sustainable development of the village. This programme will be conducted during May 1st – July 31st 2018. This will be considered as summer internship for those who have participated.								
3.	The introduction of NON-CGPA course on critical and creative thinking for UG degree programme	Made it compulsory in R-2019								
4.	The refinement of course outcomes for the UG degree programmes to be offered under R-2015 of Mechanical Engg	Implemented								
5.	The additional elective course 15ME44E – NEW PRODUCT DEVELOPMENT for the UG degree programmes to be offered under R-2015	Implemented								
6.	The additional elective course 15EN27E – DESIGN OF EXPERIMENTS for the M.E. – ENERGY ENGINEERING programme to be offered under R-2015	Implemented								
7.	The incorporation and modification of one credit courses for the UG degree programmes to be offered under R-2015 of B.E. – ECE	Constantination								
8.	The incorporation and modification of one credit courses for the UG degree programmes to be offered under R-2015 of B.E. – CSE									
9.	The incorporation and modification of one credit courses for the UG degree programmes to be offered under R-2015 of B.E. – EEE	0.0000000000000000000000000000000000000								

5. No.	Action Initiated	Action Taken
10.	The incorporation and modification of one credit courses for the UG degree programmes to be offered under R-2015 of B.EEIE	Implemented
11.	The incorporation and modification of one credit courses for the UG degree programmes to be offered under R-2015 of B.E. – Civil Engg.	Implemented
12.	The incorporation and modification of one credit courses for the UG degree programmes to be offered under R-2015 of B.Tech. – IT	Implemented

Minutes of 8th AC Meeting – Suggestions given by Expert Members

S. No.	Suggestions given by Expert members	Action Taken
1:	To include value engineering in the syllabus of the course "New product development" and to try to get the support from industry for conducting such course.	Proposed to include in the forthcoming academic year onwards. It is also decided to handle part of the course by our faculty and the important portion by industrial experts through lecture or video conferencing.
2.	To make the course "Research Methodology" as a compulsory one for all the PG students.	It is made compulsory for all the research scholars. Research paper and patent review seminar is compulsory for all the PG students
3.	For PCB design course, a separate "FAB" lab may be established and the course must be offered for all circuit branch (EEE, EIE and ECE) students.	Efforts have been taken through NewGer IEDC / Department of ECE
4.	To conduct the courses Gamification and Enterprise IOT as practical courses.	Enterprise IOT modified as practical course for CSE department
5.	To setup IOT Laboratory for conducting courses and for product development.	A separate IOT laboratory is to be established at KR Innovation Centre
6.	To give due importance for topics like Automation, Artificial Intelligence, Deep Learning and Machine Learning courses while designing the curriculum in the forthcoming regulations.	Efforts have been taken to include in the forthcoming regulations
7.	To take care while designing the curriculum for CSE and IT in order to differentiate the field of specialization for both programmes in the forthcoming regulation.	Action is being taken to differentiate the specialization for CSE & IT programmes This will be discussed during the presentation of IT curriculum

AMENDMENTS IN REGULATIONS 2015 (9th Academic Council Meeting on 19.05.2018)

UNDER GRADUATE DEGREE PROGRAMMES

Existing UG Regulations - 2015

4.0 STRUCTURE OF THE PROGRAMME

4.6 Online Courses/Self Study Courses

Students may be permitted to earn credit through online courses (which are provided with certificate) with the approval of Head of the Department and Dean academic subject to a maximum of three credits. The Student needs to obtain certification to become eligible for writing end semester examination to be conducted by the Institution under autonomous status. In case of credits earned through on line mode from a university with approval of Head of the Department and Dean Academic, the credit may be transferred with the due approval procedures from the Performance Analysis Committee

Amended UG Regulations - 2015

4.0 STRUCTURE OF THE PROGRAMME

4.6 Online Courses/Self Study Courses

Students may be permitted to earn credit through online courses (which are provided with certificate) with the approval of Head of the Department and Dean academic subject to a maximum of three credits. The credit may be transferred with the due approval procedures as per clause 15 (ii) for either core or elective course. However, the course for which he/she is requesting credit transfer should not be handled by the department concerned in that particular semester.

6.0 REGISTRATION

6.2 Every student shall enroll for the courses of the succeeding semester during the last week of the current semester. However, the student shall confirm the enrollment by registering for the courses within first five working days after the commencement of the concerned semester.

6.0 REGISTRATION

6.2 Every student shall enroll for the courses of the succeeding semester during the last week of the current semester. However, the student shall confirm the enrollment by registering for the courses within first five working days after the commencement of the concerned semester. Further, the student has to register for the end semester examination by paying the prescribed fee for that particular course. If he/she has not registered for the end semester

Existing UG Regulations – 2015	Amended UG Regulations – 2015
	examination in the semester concerned, then he/she has to re- register for the courses in the subsequent semesters and satisfy the requirements as per clauses 7.0 & 6.10.2
7.0 REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE	7.0 REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE
7.5 NIL	7.5 Students who have not satisfied the attendance requirements as per Clauses 7.1 & 7.2 and registration requirements as per the clause 6.2 in all the courses in a particular semester have to re-do the courses in the corresponding semester in
243	the subsequent academic years subject to clause 20.1. Also, such students are not eligible to register for the subsequent semester. This will come into effect from the academic year 2018 - 2019 onwards.
15.0 AWARD OF LETTER GRADES	15.0 AWARD OF LETTER GRADES 15.1
15.1 iv. NIL	iv. For converting the marks obtained in the online courses into letter grade and grade points, the procedure detailed in clauses 15(ii) & (iii) & Table-13 shall be followed. For this purpose, the maximum and minimum marks awarded for passing requirement shall be obtained from the agency which conducts the online courses.

CREDIT DISTRIBUTION OF UNDERGRADUATE ENGINEERING PROGRAM

S.				/			BREAK	UP OF CE	REDITS	(R-2019)				ay .	
N	Category	Me	ch	EC	E	CS	E	EEE		EIE		IT		CIV	A CONTRACTOR OF THE PARTY OF TH
0	ACCURATION OF	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC
I.	Humanities and Social Sciences including Management courses	12	13	12	10	12	10	12	10	12	10	12	12	12	-11
2.	Basic Science courses	25	25	25	25	25	26	26	25	25	27	24	24	26	26
3,	Engineering Science courses including Workshop, Drawing, Basics of Electrical / Mechanical / Computer Engg., etc	24	26	24	22	24	25	20	22	24	22	29	28	29	31
4.	Professional Core courses	48	51	48	55	48	55	53	63	48	53	49	48.5	47	56
5.	Professional Elective courses relevant to chosen specialization / branch	18	18	18	21	18	16	18	15	18	18	18	22.5	23	21
6.	Open Subjects - Elective from other technical and / or emerging	18	18	18	15	18	16	18	15	18	15	12	10	11	6
7.	Project work, seminar and internship in industry or elsewhere	15	14	15	14	15	15	11	14	15	15	15	15	12	12
8.	Mandatory courses (Environmental sciences, Induction training, Indian constitution, Essence of Indian Traditional Knowledge)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
9.	Comprehension								10						2
10.	One Credit Courses														
Ħ.	Online Courses														
12.	Live-in Lab								1.3						
	TOTAL	160	165	160	162	160	163	158	164	160	160	159	160	160	165

									В	REAK	UP OF	CRED	ITS (R	-2019)						2								
SI.	Category			Mech ECE						CSE		EEE				EIE			CIVIL		į							
N 0			Category		AICTE	N	EC	AICTE	NI	EC	AICTE	NI	EC	AICTE	N	EC	AICTE	N	EC	AICTE	NE	c	AICTE	N	EC			
		English		7.			5			,5			5	1		5			5			5						
I.	Humanities and Social Sciences including	Human ities	12	5	13	12	3	10	12	2 3	3 10	10 12	2 3	10	12	3	10	12	5	12	12	3	11					
	Management courses	Social Science		1			2			2								2'			2			2			3	
2.	Basic Science courses		25	1	25	25	2	25		26		26	25	25	12	7	24	24		26	3	26						
3.	Engineering Science courses Workshop, Drawing, Basics Electrical / Mechanical / Cor Engg., etc	of	24		26	24	2	22		25		20	22		24	22		29	28		29	-	31					
4.	Professional Core courses		48		51	48	55		55		55		48	5	5	53		53	48	5	3	49	48	.5	47	3	56	
5.	Professional Elective courses to chosen specialization / bra	15,000,000,000	18		18	18	21		21		18	1	6	18	-	15	18	1	8	18	22	.5	23		21			
6.	Open Subjects - Elective from technical and / or emerging	m other	18	15	18	18	1	15		15 1		18 16		18 15		18	15		15 12		12	10		11 (6		
		Product Develo pment		2			2			2			2			2			2			0						
	Project work, seminar and	Mini Project	15	3			4			4			3	10	15	15 6			4			4						
7.	internship in industry or elsewhere	Project Work	13	6	14	15	6	14	15	6	15	11	6				15	15	6	15	12	6	12					
	Samuel Samuel (Marketon)	Semina r		1			-			1	1		1						1			-						
		Interns hip		2			2			2	4		2			2			2			2						

22	Category		Mech		ECE			CSE		EEE		EIE		ır		CIVIL					
S. N o			AICTE	NEC	AICTE	NEO	c	AICTE	NE	c	AICTE	N	EC	AICTE	N	EC	AICTE	N	EC	AICTE	NEC
8.	Mandatory courses (1.Environmental sciences, 2. Induction training, 3. Indian constitution, 4. Essence of Indian Traditional Knowledge)	EVS	7	1	~	1		4	1		1	1		1	1		4	1		1	
		IT	1	1	1	1		~	1	Š	1	1		~	1		1	1		1	1
		IC	1	1	1	1		4	~		1	4		1	1		1	4		1	~
		EITK	1		V	1		~	1	8	1	1		1	1		~	1		1	1
9.	Comprehension		1(PCC)			1(PC	C)		Ю	EC)		1(1	PCC)		1(1	PCC)		1 (0	DEC)		2
10.	One Credit Courses									9						-11.0					
11.	Online Courses																				
12.	Live-in Lab															1					
	TOTAL			9 37						11					ne i	The second			M		

CREDIT DISTRIBUTION OF BASIC SCIENCE COURSES

0.14	MECH	ECE	CSE	EEE	EIE	IT	CIVIL	
Subject	Credit	Credit	Credit	Credit	Credit	Credit		
Mathematics	12	14	12	12	16	11	10	
Engineering Physics	6	2	4	4	4	4	3	
Engineering Chemistry	6	4	4	4	4	4	3	
Physics and Chemistry Lab	2	3	3	3	3	3	1	
Biology	3 (OEC)	2	3	2	2 (ESC)	2	3	
Related to the Program							6	

SEMESTER-WISE CREDIT BREAKUP

	MECH		ECE		CSE		EEE		EIE		IT		CIVIL	
Semester	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC	AICTE	NEC
Ē	17.5	18	17.5	17.5	17.5	23	17.5	18	17.5	17.5	17.5	23.5	17.5	21
11	20.5	19	20.5	22.5	20.5	20.5	20.5	17.5	20,5	18	20.5	18.5	20.5	23
m	23	23	20	22	23	23	20	24	20	22	23	23	22	23
IV	19	21	20	18.5	22	23.5	22	21.5	20	23	22	20	23	22
V	20.5	22	20	22.5	21	23	21	22.5	20	22.5	21	21.5	23	20
VI	21.5	22	20	24	22	22	22	28	20	23	22	21	23	21
VII	18.5	25	21	23	18	19	18	24.5	21	23	18	23.5	15	24
VIII	18	15	21	12	15	9	17	8	21	11	15	9	16	11
Total	158.5	165	160	162	159	163	158	164	160	160	159	160	160	165