



## **Minutes of the 28<sup>th</sup> Meeting of the Special Senate**

The 28th Meeting of the Special Senate was held on 22.01.2024 from 4:30 PM onwards in the Board Room of the Institute. The members in attendance were as follows:

1. Prof. Mukul S Sutaone, Director IIITA	Chairman
2. Prof. G. C. Nandi	Member
3. Prof. U S Tiwary, Dean (FA)	Member
4. Prof. O P Vyas, Dean (TD) & (IWD)	Member
5. Prof. Shekhar Verma, Dean (SDA)	Member
6. Prof. Anupam, Dean (Alumni Affairs)	Member
7. Prof. Manish Goswami, Dean (A & R)	Member
8. Prof. Madhvendra Misra, Dean (I&NR)	Member
9. Prof. Ranjit Singh, Dean (SA)	Member
10. Dr. K.P. Singh (HOD IT)	Member
<i>(represented in the meeting by Dr. Sonali Agarwal)</i>	
11. Dr. Sanjai Singh, (HOD ECE)	Member
12. Dr. Pramod Kumar (HOD AS)	Member
13. Dr. Pragya Singh, (HOD MS)	Member
14. Prof. Tapobrata Lahiri, Professor	Member
15. Prof. Vijaishri Tewari, Professor	Member
16. Prof. Pavan Chakraborty, Professor	Member
17. Prof. Neetesh Purohit, Professor	Member
18. Prof. Vrijendra Singh, Professor	Member
19. Prof. Pritish Varadwaj, Professor	Member
20. Dr. Ratan Saha (First-year coordinator)	Spl. Invitee
21. Representative Student Gymkhana	Spl. Invitee
22. Dr. Satish Kumar Singh, Registrar (Acting)	Sec. Senate

The Secretary Senate welcomed the members present in the 28<sup>th</sup> special meeting of the Senate. The Chairman Senate, in his tone-setting foreword, expressed the rationale on holding this urgent meeting to discuss, consider and decide on a major agenda of applying the benefitting features of NEP aligned curriculum to the BTech batches admitted in year-2022, as mandated by the BoG in its 23<sup>rd</sup> and 24<sup>th</sup> meeting. He deliberated on the concept of 'Major of 145 credits and a 'Mandatory Multi-disciplinary Minor-(MMDM) of 15 credits' in the NEP Curriculum structure of total 160 credits for BTech programs offered by IIITA and to be applied w.e.f 2023 admitted batch and appealed the members on considering applying the same to 2022, admitted batches also, as recommended by the specially constituted NEP monitoring Committee vide its meeting held on Saturday-13<sup>th</sup> January 2024. He further informed that the Dean-A & R and Heads of the Departments presented the equivalence between 2022 and 2023 Curricula structures, for such application and also the new examination/assessment pattern to the members of the NEP Committee in its meeting held on 13<sup>th</sup> Jan 2024 and could converge on its acceptance for 2022 admitted batch, impeccably. After this preamble, with the permission of the Chair, the formal Agenda was taken up as follows:

ITEM NO. 28.01	To consider and approve the implementation of NEP for 2022 admitted batches of B.Tech (and PhD) in terms of course structure, exam pattern and grading scheme
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The Dean – A & R presented the course structure based on equivalence drawn between the curriculum structures as applicable to 2023 admitted batch and as was applicable to 2022 admitted batch, alongwith the examination and grading patterns etc.

**Point 1 – Course Structure:** The Senate deliberated & noted the details of the course structures of 2022 and 2023 batches along with their equivalence, the old and new exam pattern, etc. as considered and recommended by the special purpose NEP Committee for the application of NEP features for 2022 B.Tech batch. Dean (A&R) informed the salient features of NEP.

**Resolution: S-28/01.01:** The Senate approved the equivalent course structure to be applied for 2022 batch as placed at Annexure –I.

**Point 2 – Exam pattern and grading scheme:** The Dean A & R presented and the members noted the details of new exam pattern (formative and summative) as applicable for 2023 batches, as per new modified NEP ordinance, vis-a-vis the exam pattern in the CCLCAA Ordinance as applicable for 2022 and earlier admitted batches. Further, all the features of NEP curriculum and Ordinance-2023 for BTech programs were presented in light of their applicability to 2022 admitted batch.

**Resolution: S-28/01.02:** The Senate approved the application of “Ordinance-2023 for BTech programs with NEP aligned Curriculum” to the BTech-2022 admitted batch, which was till now governed by CCLCAA Ordinance.

**Point 3 – Concept of Major and Minor / Mandatory Multidisciplinary Minor (MMDM):** As concepts of ‘Major’ and ‘Minor’ have been envisaged in NEP, to facilitate 2022 admitted batch, a “15 credits Mandatory Multidisciplinary Minor (MMDM)” was proposed to be offered to 2022 Batch. Each student would undergo a particular stream of the MMDM (basket) with 05 courses of 3 credits each, in each Semester from 4<sup>th</sup> Semester onwards. (as placed at Annexure-II).

Members opined that offering of a mandatory minor should originate from the concerned Department / Faculty, so that with such ownership, the quality is assured in such initiative since its inception. Chairman Senate suggested that a few relevant Minors –MMDMs can also be offered in a collaborative mode in association with other reputed Universities/Institutes/Organizations such as IIM Lucknow, Allahabad University etc.

**Resolution: S-28/01.03:** The Senate approved following FIVE Minor Baskets for 2022 Batch:

1. MMDM-I: Entrepreneurship & Innovation
2. MMDM-II: Economics & Finance for Engineers
3. MMDM-III: Science of Happiness
4. MMDM-IV: Biological Data Analytics
5. MMDM-V: Medical Diagnostics and Therapeutic Technology




**Point 4 –Implementation of ‘Letter Grades’ for 2022 Batch:** It was discussed that the CGPI earned by the students of 2022 batch, based on their performance in first two semesters shall be carried forward seamlessly when the exam pattern changes to the formative and summative assessments and the grading pattern changes to letter grades. The modalities of the same need to be worked out.

**Resolution: S-28/01.04:** The Senate approved the proposal of application of Examination and Grading pattern to B.Tech 2022 admitted Batch, as per the provisions in the “Ordinance-2023 for BTech programs with NEP aligned Curriculum”.

**Point 5 – Other terms and conditions related to drop / pass, provisions such as Honors, ME-ME, Credit transfer, etc. as provided for 2023 Batch be made applicable for 2022 admitted Batch:** The Senate deliberated on the same and opined that sufficient opportunity for students should be provided to clear the backlogs.

**Resolution: S-28/01.05:** The Senate approved the provisions in the “Ordinance-2023 for BTech programs with NEP aligned Curriculum” to be made applicable to 2022 B.Tech admitted Batch as well. The Senate further approved to provide sufficient opportunities for the students to clear the backlogs and align them smoothly to the new structure.

**Point 6 – Application of ‘NEP based Ordinance for Doctoral Degree (PhD) programs to 2022 admitted batch:** The Senate deliberated on the provisions of NEP based Ordinance for PhD Batch and its application of its provisions to the batch admitted in 2022.

**Resolution: S-28/01.06:** The Senate considered and approved the application of “NEP based Ordinance for Doctoral Degree (PhD) programs” for 2022 PhD admitted Batch.

<b>ITEM NO.</b> <b>28.02</b>	<b>Any other Item</b>
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**Point 7: To consider and approve 12 point system for PhD thesis submission for existing PhD students:**

**Resolution: S-28/02.01:** The Senate considered and approved the application of the 12-point system to be applied for all the existing PhD scholars including those who have proceeded for PhD thesis submission, as per provisions in the “NEP based Ordinance for Doctoral Degree (PhD) programs”.

**Point 8 – To consider and approve the uniform UFM (Unfair Means) Policy for Mid-Sem/ End Sem and Backpaper UFM Examinations.**

It was apprised that Policy for UFM for CCLCAA Ordinance 2018 approved by 26<sup>th</sup> Senate dated 7.8.2023 was in practice for all old existing batches. Consequent upon implementation of NEP 2020 Policy effective from July 2023, the Institute policy on Plagiarism and UFM needed an alignment with the provisions of CCLCAA Ordinance 2018.

Also, course of action for UFM cases in backpaper examination was not clear, as one UFM case of Mr. Priyanshu Raj (IIT2023146), student of B.Tech (IT) program NEP based during back paper examination of ES-EC-FEE on 6.1.2024 was put up for perusal, (as placed at Annexure -III).

A note was moved to the competent authority and Chairman Senate regarding the modified Clause from the CCLCAA Ordinance 2018 to be adopted for the UFM cases was agreed for putting up to Senate, which after also incorporating backpaper UFM clause, reads as below:

The modified clause of the CCLCAA Ordinance 2018 (Page 3/3 of Annexure-III) for "Penal Actions "to be adopted for NEP Ordinance:

Previous Clause	Modified Clause
In case, any student is found indulging in use of any UNFAIR MEANS, during any component of assessment viz. C1, C2 or C3, the entire respective component (C1, C2 or C3) <b>SHALL be zeroed</b> and so uploaded onto the AVIRAL Students, academic lifecycle management system by the respective instructor. <b>In case C3 is zeroed</b> , the student <b>shall be stopped from appearing in the makeup assessment</b> . As a consequence, the result sheet of the respective student shall reflect the respective student to have dropped that particular affected course.	In case, any student is found indulging in use of any UNFAIR MEANS, during any component of assessment viz. Faculty Assessments, Mid Semester <u>OR</u> End Semester <u>OR</u> Back Paper Examinations, the respective component (Faculty Assessments, Mid Semester <u>OR</u> End Semester <u>OR</u> Back Paper Examinations) <b>SHALL be zeroed</b> and so uploaded onto the students' academic lifecycle management system by the respective instructor. <b>In case End Semester is zeroed</b> , the student <b>shall be stopped from appearing in the <u>Backpaper</u> assessment, and will have to re-register in that subject</b> .  <b>In case Backpaper is zeroed, the student will be treated as dropped and will have to re-register for that Subject.</b>

**Resolution: S-28.02/02.02:** The Senate considered and approved the uniform UFM (Unfair Means) Policy for Mid Sem / End Sem and Backpaper UFM Examinations.

### Point 9 – To consider the representation of Students ' Gymkhana

The representatives of Students' Gymkhana presented their issues before the Senate. Their first issue was:

#### 1) Holding of Students' Gymkhana Elections in April

The Student's Gymkhana Elections, as per Academic Calendar for Jan-Jun 2024 were scheduled to be held during 20th January – 21st January, 2024 which could not be held. The representatives of Gymkhana contended that since the COVID pandemic these elections are being held in April every year since then. They further informed that Gymkhana had to organize 4 Festivals – Tech Fest "Aproksha", Sports Event "Asmita", "Institute Foundation Day" and

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Cultural Fest "Effervescence" during the year. They reported the problem that if NEW Intern(s) comes in January as elected representative(s) of Student's Gymkhana, then he / she has to be trained by old President / Secretary / teams about the associated work. Hence, they proposed holding Elections in April as per previous years, post COVID. It was pointed out by Senate that during 8<sup>th</sup> Semester students leave for Internship, hence it is not possible.

## **2) Removal of PhD students' involvement in Students' Gymkhana**

The Senate did not agree to removal of PhD students' involvement in Students' Gymkhana and also directed to include MBA (final year) students in the Election process – whom Gymkhana informed were till yet not eligible for participating in Gymkhana Elections.

**Resolution: S-28.02/02.03:** The Senate did not agree to holding of Gymkhana Elections in April and instead directed the Students' Gymkhana to complete the Election process in January itself. Also, the Gymkhana was directed to modify the Gymkhana ordinance to include MBA (final Year) and any other issues and put up modified Ordinance in the next Senate meeting, for consideration.

The meeting then ended with thanks to the Chair.

  
(Dr. Satish Kumar Singh)  
Registrar (Acting)  
& Secretary Senate

  
(Prof. Mukul S. Sutaone)  
Director  
& Chairman Senate

## Annexure-I

**Indian Institute of Information Technology, Allahabad**  
**Department of Information Technology**  
**B.Tech. IT curriculum**  
(2022 Batch)

**Total Credit : 164**

Semester 1 Total Credit : 20					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Physics		Core	4	2-1-1
2	Linear Algebra		Core	4	3-1-0
3	Introduction to Programming		Core	4	2-1-1
4	Fundamentals of Electrical & Electronics Engg.		Core	4	2-1-1
5	Professional Communication		Core	2	1-0-1
6	Principles of Management		Core	2	1-1-0
					11-10-08
Total				20	29

Semester 2 Total Credit : 22					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Discrete Mathematical Structures		Core	4	3-1-0
2	Univariate and Multivariate Calculus		Core	4	3-1-0
3	Computer Organization and Architecture		Core	4	2-1-1
5	Data Structures		Core	4	2-1-1
6	Principles of Communication Engineering		Core	4	2-1-1
7	Principle of Economics		Core	2	2-0-0
					14-10-06
Total				22	30

Semester 3 Total Credit : 20					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Probability and Statistics		Hard	4	3-1-0
2	Theory of Computation		Hard	4	2-1-1
3	Object Oriented Methodologies		Hard	4	2-1-1
4	Operating System		Hard	4	2-1-1
5	Introduction to Finance		Hard	2	2-0-0
6	Introduction to Marketing		Hard	2	1-0-1
					12-08-08
Total				20	28

**B.Tech. IT 2022 Batch (Proposed Curriculum)**

Semester 4					Total Credit: 21
Sl. No.	Course Name	Code	Type	Credit	Hours L-T-P-S
1	Design and Analysis of Algorithms		PCC	4	3-0-2-0
2	Principles of Programming Language		PCC	3	3-0-0-0
3	Computer Networks		PCC	4	3-0-2-0
4	Software Engineering		PCC	3	2-0-2-0
5	Database Management System		PCC	4	3-0-2-0
6	Multi-Disciplinary Minor-1		MDM	3	3-0-0-0
Total				21	17-00-08-00 25

Semester 5					Total Credit: 25
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Cyber Security	PC-IT-CSE301	PCC	4	3-0-2-0
2	Introduction to Machine Learning	PC-IT-IML302	PCC/VSEC	4	3-0-2-0
3	Image and Video Processing	PC-IT-IVP303	PCC/VSEC	4	3-0-2-0
4	Artificial Intelligence	PC-IT-AIN304	PCC	3	2-0-2-0
5	Project-I (Research Methodology)	PC-IT-PRO351	ELC	2	0-0-4-0
6	Computer Graphics and Visualization	PC-IT-CGV208	PCC	3	2-0-2-0
7	Design Thinking and Innovation	HM-MS-DTI306	HSMC	2	1-0-2-0
8	Multi-Disciplinary Minor-2		MDM	3	3-0-0-0
				<b>Total</b>	<b>25</b>
					<b>17-0-16-0</b>
					<b>33</b>

Semester 6					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Data Analytics	PC-IT-DAN305	PCC	3	2-0-2-0
2	Project-II	PC-IT-PRJ352	ELC	4	0-0-8-0
3	Biology for Engineers	BS-AS-BFE301	BSC	2	2-0-0-0
4	Elective-1	PE-IT-XXX401	PEC	3	3-0-0-0
5	Elective-2	PE-IT-XXX402	PEC	3	3-0-0-0
6	Indian/Foreign language Regional Language, Sanskrit, German, Japanese, French	HM-xx-XXX304	HSMC (AEC)	2	1-0-2-0
7	Multi-Disciplinary Minor-3		MDM	3	3-0-0-0
				<b>Total</b>	<b>20</b>
					<b>14-0-12-0</b>
					<b>26</b>

**Exit:** After successful completion of 6 semesters, a student any get an exit option as per ordinance after completion of the summer semester internship (3 credits) and additional 3 credit courses in summer.

Summer Semester					Total Credit: 3
Sl. No.	Course Name	Code	Type	Credit	
1	Internship	PC-IT-ITP353	ELC	3	Credit will be added in VII Sem.

**Note:** Internship will be evaluated in the beginning of seventh semester. Its credit and grades will be reflected in the 7<sup>th</sup> Semester Grade Sheet.

Semester 7					Total Credit: 21
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Minor Project	PC-IT-PRJ451	ELC	4	0-0-8-0
2	Elective-3	PE-IT-XXX403	PEC	3	3-0-0-0
3	Elective-4	PE-IT-XXX404	PEC	3	3-0-0-0
4	Open Elective-1	OE-ZZ-XXX4SS	OEC	3	3-0-0-0
5	History of Indian Civilizations/Kautilya's Arthashastra/Vedic Mathematics/Vedic Corpus/Wisdom from the Ages/Panini's Grammar	HM-MS-XXX408	HSMC (IKS)	2	2-0-0-0
6	Internship(Summer Semester)	PC-IT-TO353	ELC	3	0-0-0-6
7	Multi-Disciplinary Minor-4		MDM	3	3-0-0-0
				<b>Total</b>	<b>21</b>
					<b>14-0-8-6</b>
					<b>28</b>

Semester 8					Total Credit: 15
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Major Project	PC-IT-PRJ452	ELC	6	0-0-12-0 0-0-0-6
2	Elective-5	PE-IT-XXX402	PEC	3	3-0-0-0 0-0-0-3*
3	Open Elective-2	OE-ZZ-XXX4SS	OEC	3	3-0-0-0 0-0-0-3*
4	Multi-Disciplinary Minor-5		MDM	3	3-0-0-0
<b>Total</b>				<b>15</b>	<b>9-0-12-0</b>
					<b>21</b>

\*8<sup>th</sup> Semester courses may be allowed to join via MOOC/NPTEL etc.

**Indian Institute of Information Technology, Allahabad**  
**Department of Information Technology**  
**B.Tech. IT-BIN curriculum**  
(2022 Batch)

**Total Credit : 164**

<b>Semester 1 Total Credit : 20</b>					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Physics		Core	4	2-1-1
2	Linear Algebra		Core	4	3-1-0
3	Introduction to Programming		Core	4	2-1-1
4	Fundamentals of Electrical & Electronics Engg.		Core	4	2-1-1
5	Professional Communication		Core	2	1-0-1
6	Principles of Management		Core	2	1-1-0
					11-10-08
Total				20	29

<b>Semester 2 Total Credit : 24</b>					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Discrete Mathematical Structures		Core	4	3-1-0
2	Univariate and Multivariate Calculus		Core	4	3-1-0
3	Computer Organization and Architecture		Core	4	2-1-1
4	Business Process Modeling			2	1-1-0
5	Data Structures		Core	4	2-1-1
6	Principles of Communication Engineering		Core	4	2-1-1
7	Principle of Economics		Core	2	2-0-0
					15-11-06
Total				24	32

<b>Semester 3 Total Credit : 22</b>					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Probability and Statistics		Hard	4	3-1-0
2	Theory of Computation		Hard	4	2-1-1
3	Object Oriented Methodologies		Hard	4	2-1-1
4	Operating System		Hard	4	2-1-1
5	Introduction to Finance		Hard	2	2-0-0
6	Introduction to Marketing		Hard	2	1-0-1
7	Foreign Language & Intercultural Studies*			2	1-1-0
*can be floated in Semester 4 as will depending upon students enrolments					13-10-08
Total				22	31

**B.Tech. IT-BIn 2022 Batch (Proposed Curriculum)**

Semester 4				Total Credit: 23	
Sl. No.	Course Name	Code	Type	Credit	
1	Design and Analysis of Algorithms		PCC	4	3-0-2-0
2	Principles of Programming Language		PCC	3	3-0-0-0
3	Computer Networks		PCC	4	3-0-2-0
4	Software Engineering		PCC	3	2-0-2-0
5	Database Management System		PCC	4	3-0-2-0
6	Foundations of FinTech		PCC	2	1-1-0-0
7	Multi-Disciplinary Minor-1		MDM	3	3-0-0-0
Total Credit				23	18-1-8-0
					27

Semester 5					Total Credit: 21
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Cyber Security	PC-IT-CSE301	PCC	4	3-0-2-0
2	Introduction to Machine Learning	PC-IT-IML302	PCC	4	3-0-2-0
3	Digital Marketing	PC-BI-DMK202	PCC	3	2-1-0-0
4	Artificial Intelligence	PC-IT-AIN304	PCC	3	3-0-0-0
5	Project – I (Research Methodology)	PC-IT-PRO351	PCC	2	0-0-4-0
6	Multi-Disciplinary Minor-2	MD-xx-XXX203	MDM	3	3-0-0-0
7	Design Thinking and innovation	HM-MS-DT306	HSMC (AEC)	2	1-0-2-0
					15-1-10-0
Total				21	26

Semester 6					TotalCredit:18
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P
1	Data Analytics	PC-IT-IML302	PCC	3	2-0-2-0
2	Project – II	PC-IT-PRJ352	PCC	4	0-0-8-0
3	Biology for Engineers	BS-AS-BFE301	BSC	2	2-0-0-0
4	Process Mining & Analytics	PC-BI-PM303	PCC	3	2-0-1-0
5	BI-Elective-1	PE-BI-XXX301	PEC	3	3-0-0-0
	BI-Elective-Basket:				
	• Details appended				
6	Multi-Disciplinary Minor-3	MD-xx-XXX204	MDM	3	3-0-0-0
					12-0-11-0
Total				18	23

**Exit:** After successful completion of 6 semesters, a student may get an exit option as per ordinance after completion of the summer semester internship (3 credits) and additional 3 credit courses in summer.

Summer Semester TotalCredit:3					
Sl.No.	Course Name	Code	Type	Credit	
1	Internship	PC-IT-ITP353	ELC	3	Credit will be added in VII Sem.

**Note:** Internship will be evaluated in the beginning of seventh semester. Its credit and grades will be reflected in 7<sup>th</sup> semester Grade sheet.

Semester 7					Total Credit:24
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Minor Project	PCITPRJ451	PCC	4	0-0-8-0
2	Big Data Analytics	PEBIXXX403	PCC	3	2-0-2-0
3	Elective-3 BI-Elective II: IT Project Management + IT Electives	PEITXXX404	PCC	3	3-0-0-0
4	Open Elective-1	OEZZXXX4SS	OEC	3	3-0-0-0
5	a)History of Indian Civilizations, b)Kautiliya's Arthashastra, c)Vedic Mathematics, d) Vedic Corpus, e) Wisdom from the Ages, f) Panini's Grammar	HM-MS-XXX408	HSMC (IKS)	2	2-0-0-0
6	Internship (Summer Semester)	PC-IT-TO353	ELEC	3	0-0-0-6-0
7	Multi-Disciplinary Minor-4	MD-xx-XXX204	MDM	3	3-0-0-0
					13-0-10-06
Total				21	29

Semester 8					Total Credit:15
Sl.No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Major Project	PC-IT-PRJ452	ELC	6	0-0-12-0
2	*Elective-4	PE-IT-XXX402	PEC	3	3-0-0-0
3	*Open Elective-2	OE-ZZ-XXX4SS	OEC	3	3-0-0-0
4	*Multi-Disciplinary Minor-5	MD-xx-XXX204	MDM	3	3-0-0-0
					9-0-12-0
Total				15	21

8th Semester courses may be allowed to join via MOOC/ NPTEL.

**Indian Institute of Information Technology, Allahabad**  
**Department of Information Technology**  
**B.Tech. ECE curriculum**  
(2022 Batch)

**Total Credit : 161**

<b>Semester 1 Total Credit : 20</b>					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Physics		Core	4	2-1-1
2	Linear Algebra		Core	4	3-1-0
3	Introduction to Programming		Core	4	2-1-1
4	Fundamentals of Electrical & Electronics Engg.		Core	4	2-1-1
5	Professional Communication		Core	2	1-0-1
6	Principles of Management		Core	2	1-1-0
					11-10-08
Total				20	29

<b>Semester 2 Total Credit : 22</b>					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Discrete Mathematical Structures		Core	4	3-1-0
2	Univariate and Multivariate Calculus		Core	4	3-1-0
3	Computer Organization and Architecture		Core	4	2-1-1
5	Data Structures		Core	4	2-1-1
6	Principles of Communication Engineering		Core	4	2-1-1
7	Principle of Economics		Core	2	2-0-0
					14-10-06
Total				22	30

<b>Semester 3 Total Credit : 20</b>					
Sl.No.	Course Name	Code	Type	Credit	L-T-P
1	Analog Communication		Hard	4	2-1-1
2	Analog Electronics		Hard	4	2-1-1
3	Electrical Engineering		Hard	4	3-0-1
4	Electronics Measurement and Instrumentation		Hard	3	2-0-1
5	Micro Processor Interface and Programming		Hard	4	2-1-1
6	Probability and Statistics		Hard	4	3-1-0
					13-08-10
Total				22	31

**B.Tech. ECE 2022 Batch (Proposed Curriculum)**

<b>Semester 4</b>					<b>Total Credit: 21</b>
Sl. No.	Course Name	Code	Type	Credit	L-T-P
1	Discrete Time Signals and Systems		PCC	3	3-0-0-0
2	Control Systems		PCC	4	3-0-2-0
3	Digital IC Design		PCC	4	3-0-2-0
4	Integrated Circuit Technology		PCC	3	3-0-0-0
5	Antenna and Wave Propagation		PCC	4	3-0-2-0
6	Multi-Disciplinary Minor-1		MDM	3	3-0-0-0
Total Credit 21					<b>18-0-06-0</b> <b>24</b>

**Exit:** After successful completion of 4 semesters, a student may get an exit option as per ordinance. They need to do *two courses* before exit.

Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Embedded System Design	PC-EC-ESD317	PCC	3	2-0-2-0
2	Mobile and Wireless Communication	PC-EC-MWC318	PCC	3	2-0-2-0

Semester 5					Total Credit: 21
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Embedded System Design	PC-EC-ESD317	PCC	3	2-0-2-0
2	Optical Communication	PC-EC-OPC319	PCC	3	2-0-2-0
3	Microwave Engineering	PC-EC-MWE315	PCC	3	2-0-2-0
4	Digital Communication	PC-EC-DCO316	PCC	3	3-0-0-0
5	Computer Networks		PCC	3	2-0-2-0
6	Multi-Disciplinary Minor-2	MD-xx-XXX303	MDM	3	3-0-0-0
7	Design Thinking and Innovation	HM-MS-DTI306	HSMC (AEC)	2	1-0-2-0
	SMT Workshop		VSEC	1	0-0-2-0
				<b>Total</b>	<b>21</b>
					<b>17-0-12-0</b>
					<b>29</b>

Semester 6					Total Credit: 20
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Digital Signal Processing	PC-EC-DSP313	PCC	4	3-0-2-0
2	Mobile and Wireless Communication	PC-EC-MWC318	PCC	4	3-0-2-0
3	Program Elective-I	PE-EC-xxx301	PEC	3	2-0-2-0
4	Project	PP-EC-PRJ301	VSEC	4	0-0-8-0
5	Multi-Disciplinary Minor-3	MD-xx-XXX304	MDM	3	3-0-0-0
6	Indian/Foreign Language Regional Language, Sanskrit, German, Japanese, French	HM-xx-XXX304	HSMC (AEC)	2	1-0-2-0
				<b>Total</b>	<b>20</b>
					<b>12-0-16-0</b>
					<b>28</b>

**Exit:** After successful completion of 6 semesters, a student any get an exit option as per ordinance. They need to do two courses before exit.

Sl. No.	Course Name	Code	Type	Credit	L-T-P-S
1	Skill based Elective – I		PCC	3	2-0-2-0
2	Skill based Elective - II		PCC	3	2-0-2-0

Summer Semester					Total Credit: 3
Sl. No.	Course Name	Code	Type	Credit	
1	Internship	PC-EC-ITP353	ELC	3	Credit will be added in VII Sem.

**Note:** Internship will be evaluated in the beginning of seventh semester. Its credit and grades will be reflected in the 7<sup>th</sup> Semester Grade Sheet.

Semester 7					Total Credit: 21
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Program Elective-II	PE-EC-xxx403	PEC	3	3-0-0-0
2	Program Elective-III	PE-EC-xxx404	PEC	3	3-0-0-0
3	Open Elective-I	OE-xx-xxx4xx	OEC	3	3-0-0-0
4	Multi-Disciplinary Minor-4	MD-xx-XXX405	MDM	3	3-0-0-0
5	a) History of Indian Civilizations, b) Kautilya's Arthashastra, c) Vedic Mathematics, d) Vedic Corpus, e) Wisdom from the Ages, f) Panini's Grammar	HM-MS-XXX08	HSMC (IKS)	2	2-0-0-0
6	Internship (Summer Semester)	PC-EC-ITP353	ELC	3	0-0-0-6
7	Mini Project		PEC	4	0-0-8-0
<b>Total</b>				<b>21</b>	<b>14-0-8-6</b>
					<b>22+6</b>

Semester 8					Total Credit: 14
Sl. No.	Course Name	Code	Type	Credit	Hours
					L-T-P-S
1	Major Project	PP-EC-PRJ403	ELC	8	0-0-16-0
2	*Program Elective-IV	PE-EC-xxx405	PEC	3	0-0-0-3
3	*Multi-Disciplinary Minor-5	MD-xx-XXX405	MDM	3	3-0-0-0
<b>Total</b>				<b>14</b>	<b>3-0-16-6</b>
					<b>25</b>

\*8<sup>th</sup> Semester courses may be allowed to join via MOOC/NPTEL etc.

### Honors:

- “Honors” is an additional credential, a student will earn if he/she opts for the extra 15 credits needed for this in his/her own discipline. The concerned department specifies the course requirements for earning the Honors.
- B.Tech.-ECE-Honor Course: Minimum 8 CGPI and No backlog.
- After 3<sup>rd</sup> Semester, students may choose extra credits for Honors.
- The 8<sup>th</sup> Semester project must be an academic project. At least one research publication in Tier I/II conferences or in SCI Journals communicated or one patent filed.

## Annexure-II

### Identified MMDMs

	<b>MMDM-I</b>	<b>MMDM-II</b>	<b>MMDM-III</b>
<b>Title</b>	<b>Entrepreneurship &amp; Innovation</b>	<b>Economics &amp; Finance for Engineers</b>	<b>Science of Happiness</b>
<b>Courses</b>	Fundamentals of Entrepreneurship	Indian Economics	Introduction to Science of Happiness
	Social Entrepreneurship	Money and Banking	Understanding Domains of Happiness
	Entrepreneurial Finance	Economics of Business Environment	Happiness Indices
	Innovation Management	Start-up Economics	Assessment of happiness
	Managing Corporate Entrepreneurship	Digital Economics	Independent Study of Science of Happiness
	<b>MMDM-IV</b>	<b>MMDM-V</b>	<b>MMDM-VI</b>
<b>Title</b>	<b>Personality Development &amp; Life Skills</b>	<b>Performing Arts</b>	<b>Visual Arts</b>
<b>Courses</b>	Food Science & Nutrition	Dance	Photography
	Foreign Language	Drama	Pottery
	Horticulture- Gardening	Music	Painting
	Community Services	Singing	Crafting
	Emotional Intelligence	Puppetry	Design

#### Other Possible MMDMs

<b>Mathematics</b>	<b>Applied Statistics &amp; Analytics</b>	<b>Design Thinking</b>	<b>Biological Data Analytics</b>	<b>Medical Diagnostics and Therapeutic Technology</b>	<b>Quantum Computation and Quantum Information</b>	<b>To be added like Philosophy, Psychology</b>	<b>Material Data Science &amp; Informatics</b>
Calculus	Calculus	Creative/ Critical Thinking	Proteomics and Genomics	Basics of Human Anatomy & Physiology	Fundamentals of Quantum Computation		Structural engineering and data informatics
ODE	Estimation Theory	Innovation Process & Regulations	Next Generation Sequencing	Biomedical Instrumentation	Information Theory and Entropy		Nano-engineering and data simulation
Numerical Methods	Statistical Hypothesis Testing	Design Philosophy	Cheminformatics for Engineers	Bio-MEMs and Nanotechnology	Spintronics		Advanced Materials data engineering
Number theory and Cryptography	Regression Analysis	Product & Service Design	Systems Biology and Modeling	Medical Imaging	Quantum Cryptography		Nanoscale Simulations

							and Modeling
Graph Theory	Survival Analysis	IT Innovations & start-up Development	Molecular Structure Prediction	Tissue engineering and Gene therapy	Functional Quantum Materials		Quantum materials informatics

**Indian Institute of Information Technology, Allahabad****Date: 12/01/2024****Note**

Mr. Priyanshu Raj (IIT2023146) student of the B. Tech (IT) program NEP based, was caught wearing Bluetooth headphones during the Back paper examination of "Fundamentals of Electrical and Electronics Engineering" course code ES-EC-FEE on January 6th, 2024 (first meeting), The invigilator mentioned the incident on his answer sheet.

His answer - sheet, along with the question paper and headphones, has been sealed in the AAA section for further decision

The UFM Transitory Policy 2023 Ann-1 and Student Application are attached. These however do not provide the course of action to be taken in cases of students caught under unfair means usage during Back Paper Exam.

Submitted for kind decision pl.

*Don*  
12/1/24

A. Forwarded for framing of suitable policy for UFM usage in Back Paper Exam Cases pl.

Dean (AER) pl.

*for*

~~the back paper exam is actually for~~

- The previous page note is applicable for Back paper also till new policy is framed. The same action will prevail.
- Kindly prepare a note for Back paper too and submit the same for further approval.

*selina*

*12/1/24*

# Indian Institute of Information Technology, Allahabad

Date: December 19, 2023

## Note

It is apprised that Policy for UFM (Unfair Means) for CCLCAA Ordinance 2018, as approved in the 26<sup>th</sup> Senate meeting held on 07.08.2023 vide Agenda Item No. 26.15 is in practice for all old existing Batches (copy enclosed Ann-01).

Consequent upon the implementation of NEP 2020 Policy effective from July 2023, the Institute policy on Plagiarism and UFM needed an alignment with the provision of the CCLCAA Ordinance 2018. In the backdrop of the same and transition thereon from CCLCAA to NEP 2023 effective for all new Batches, the transitory policy is requested to be put in place.

It is suggested that the procedure for penal actions for UFM in CCLCAA be refined & adopted for all such cases under NEP 2023 also.

### **Implemental:**

In NEP 2020 Ordinance, we have following assessment structure:

A. Formative Assessment

(Part 1) Faculty Assessment of 35 marks

(Part 2) Mid Semester of 25 marks

B. Summative Assessment

End Semester of 40 marks

For the sake of implementation of UFM Policy, the Faculty Assessment and Mid Semester will be considered as C1+C2, End Sem will be considered as C3.

Thus, the **modified clause of the CCLCAA Ordinance 2018 (Page 3/3 of Ann-01)** for “Penal Actions” would be:

Previous Clause	Modified Clause
In case, any student is found indulging in use of any UNFAIR MEANS, during any component of assessment viz. C1, C2 or C3, the entire respective component (C1, C2 or C3) <b>SHALL be zeroed</b> and so uploaded onto the AVIRAL Students, academic lifecycle management system by the respective instructor. <b>In case C3 is zeroed, the student shall be stopped from appearing in the makeup assessment.</b> As a consequence, the result sheet of the respective student shall reflect the respective student to have dropped that particular affected course.	In case, any student is found indulging in use of any UNFAIR MEANS, during any component of assessment viz. <b>Faculty Assessments, Mid Semester OR End Semester</b> , the respective component ( <b>Faculty Assessments, Mid Semester OR End Semester</b> ) <b>SHALL be zeroed</b> and so uploaded onto the students' academic lifecycle management system by the respective instructor. <b>In case End Semester is zeroed, the student shall be stopped from appearing in the Backpaper assessment.</b> As a consequence, the result sheet of the respective student shall reflect the respective student to have dropped that particular affected Course.

All the rest Clauses of attached Ann-01 of CCLCAA Ordinance 2018 will follow as it is for NEP 2020 Ordinance.

Submitted pl.

Modified UFM policy be presented to Senate for further consideration

AR (AAA) 19/12/2023

Dean (A&R) Pl. 19/12/2023

for Approval please

Director: 20.12

OK for the time being

20.12

## Indian Institute of Information Technology Allahabad

Office of the Dean (Academics)  
Sl. No. 400  
Date 13/02/2023

Office of the Dean (Academics)  
Sl. No. 493  
Date 15/2/23

for Secretariat  
13/02/23 01:03pm  
228

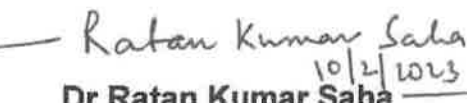
Date: 8/2/2023

**Sub: Putting in place a Unfair Means Usage Policy for students governed by CCLCAA Ordinance 2018**

Consequent upon the implementation of the New Academic Ordinances in IIITA w.e.f. session 2018, the Institute Policy on Plagiarism and UFM needed an alignment with the provisions of the CCLCAA Ordinance 2018. Against the same backdrop, the policy effected at IIITA w.e.f 2017, is now refined to suit the present academic milieu and in view of the forthcoming C3 assessments the proposed transitory policy is requested to be put in place.

Submitted for consideration and approval pl.

  
Prof Pavan Chakraborty  
HOD-IT Deptt

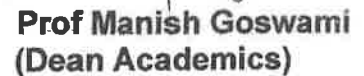
  
Dr Ratan Kumar Saha  
HOD-Applied Sciences Deptt

  
Dr Sanjai Singh  
HOD-ECE Deptt

  
Dr K K Tiwari  
Asstt Registrar(AAA)

  
Dr Asheesh Kumar  
Jt Registrar (AAA)

  
Dr Pragya Singh  
(HOD-MS Deptt)

  
Prof Manish Goswami  
(Dean Academics)

In view of C3 assessment scheduled from 21/March/2023, a meeting was held with HOD's of all deptts to align the UFM policy to CCLCAA ordinance. The policy is attached herewith.

Submitted for approval

Chairman Senate.

To  
Very Inte  
15/2/23  
Jr(AAA)  
AR(AAA) P.

# Indian Institute of Information Technology Allahabad

## UFM Transitory Policy 2023

IIITA EXPECTS its students to uphold the academic standards of honesty and probity, of highest levels and therefore TREATS "Unfair Means" (UFM) as a purposeful attempt to gain the marks / grades by way of deceiving The Assessors / Assessing System and indirectly admitting one's inability to score as a just person would do in normal circumstances.

All matters of UFM shall be treated in line with the above underlying philosophy w.e.f. the date this policy is issued.

Accordingly, while the Institute is in the process of framing detailed guidelines on UFM and related issues, following transitory rules shall be enforceable on all students of Undergraduate, Postgraduate and Doctoral students / candidates of IIITA.

1. All the students are required to be seated in their assessment room at least 10 (Ten) minutes before the commencement of the scheduled assessment in accordance with their seating plan. In no case, a student will be allowed to enter into the assessment room after 10 (ten) minutes of the commencement of the assessment. Students are not allowed to change their allotted seats unless so permitted by the Invigilator.
2. Every Student is required to ensure on their own that their pockets contain only the Institute issued legible Identity Card and they should not carry any copying material / slips in wallet / purse / bag, etc., into the assessment hall. Any type of books, papers, manuscripts, electronic gadgets, bags must be left at the entrance of the assessment room else this will be booked as a case of adopting Unfair Means (UFM).
3. Students are not permitted to carry any mobile phone/electronic gadgets/high-end scientific calculator in the assessment hall. During the assessment, if the invigilator/flying squad finds any such gadget/ instrument / article with any student or around any student, then UFM case will be registered against the student.
4. Plagiarism is also treated as an Unfair Means Usage, for the present purpose.
5. Writing of notes, hints, formulae etc on the dresses worn by students, shall also be treated as usage of UFM.
6. Frisking of students will take place on entering the assessment hall to curb the attempts of bringing mobile phone, electronic gadgets, high-end scientific calculator, electronic wrist watches, books, notes, chits, and other such objectionable items/ articles in the assessment hall.
7. Each student will have to produce his/her original identity card (valid and verifiable) in each assessment on demand by the Invigilator/Observer. If the identity card is expired/lost, then the student will be required to produce a valid authorization as Admit Card issued by AAA Section to allow his/her identity to be verified for the sake of assessment on that date.
8. If use of any unfair means by the students is found, at any time during the assessment, by the Invigilators/Observers/Instructors, then it will be reported, along with all the supporting documents, to the o/o of HOD and later by HOD to Dean Academics for necessary action.
9. Any kind of misbehaving/ threatening/ non-cooperation with the Invigilators/ Observers/ Instructors / Flying Squad members will come under the category of gross misconduct. The case

- will be judged by the Chief Proctor for further disciplinary proceedings. Such cases may include penalties / punishments / fines as for UFM also, alongwith.
10. Students are advised to check their desk that nothing is written on top or elsewhere. Nothing should be written on anywhere except the enrollment number on the question paper. If noticed later on, this will be deemed as use of unfair means by the respective student sitting on that seat and shall be dealt with as per UFM rules.
  11. The candidates must check immediately after receiving the question paper that the Question Paper contains the same number of questions as indicated in the instructions at the top. If any deficiency is noticed in the Question Paper, the Invigilator may be requested to replace the same immediately.
  12. Students should maintain total silence during assessments and they are not permitted to talk/consult / network among each other by way of voice/gestures / electronic media etc., while in the assessment hall or in common areas like washrooms, galleries, etc.
  13. Student may leave the hall for Wash Room or drinking water but not before one hour after the commencement of the assessment and should not carry question paper or any other paper with him/her and while in availment of such facilities, shall maintain the decorum as prescribed above for Assessment Halls.
  14. Upon enquiry, if it is established that a group of students were coercing for use of common UFM, all the involved students, shall be liable for penal actions, both singularly as well as severally.
  15. Providing/receiving help by another fellow student assessee in any form/manner will also be an offence to be dealt with as use of UFM.
  16. It is the responsibility of student to put their signature at all the required places. As and when the Attendance sheet is produced before assessment the student will properly fill up and sign the attendance sheet in the presence of the Invigilator(s) and reply to the questions, if any, put to them by the Invigilator ON DUTY OR Flying Squad members.
  17. No student should leave the assessment hall without handing over the answer scripts to the Invigilator. Once the answer book is handed over to the Invigilator, the same cannot be taken back by the student.
  18. Students should not take with them any answer book or supplement while leaving the assessment hall else their assessment will be cancelled.
  19. Additionally, if the Assessing Instructor, is able to identify that copying or some other kind of mischief has taken place amongst students, indicating usage of UFM, after going through the answerscript(s), which even though not caught during the assessment activity, shall also be dealt with in the same manner as having been caught red-handed. For the purpose, assessment refers to the entire period, from the start of the respective declared assessment till the award of the Degree.
  20. Usual actions taken by UFM committee against a student on valid cases range from imposing a monetary fine, cancellation of concerned paper, award of F grade, withdrawal of scholarship, expulsion from Institute, etc. The parents of the concerned student will also be informed through telephone and/or letter.
  21. The Institute though follows relative grading policy, but in case any student from a class is held under UFM, and the enquiry proceedings are in progress, his alone result shall be affected. The result of rest of the class shall not be withheld for want of such student's marks/grades.

#### **Procedural:**

- a) Invigilator(s) / Flying Squad members shall be duly empowered to catch the erring students on site.

RP 2/3

- b) Immediately upon being caught involved in use of UFM, the student shall be required to hand over the answerscript(s), UFM Object(s) to the invigilator / Flying Squad member(s) and leave the assessment hall immediately, without any further argument. The invigilator / Flying Squad Member shall make a brief and to the point noting of the incident then and there, attach the UFM used alongwith (Any electronic device including the cellphone, etc, shall be taken into possession), seal the answerscript with the assistance of nearest HOD Office staff and submit the same to o/o of HOD. The HOD will later submit the matter to the Dean Academics Office. No fresh answerscript shall be allowed to be given to such student after being caught using UFM.
- c) The noting of Invigilator / Flying Squad shall be final.
- d) Flying Squad shall be formed by the Dean Academics.

### Penal Actions:

In case, any student is found indulging in use of any UNFAIR MEANS, during any component of assessment viz C1, C2 or C3, the entire respective component (C1, C2 or C3) **SHALL be zeroed** and so uploaded onto the AVIRAL Students, academic lifecycle management system by the respective instructor. In case C3 is zeroed, the student shall be stopped from appearing in the makeup assessment. As a consequence, the result sheet of the respective student shall reflect the respective student to have dropped that particular affected Course.

### Remedies available to Student caught in UFM:

- A. The concerned student may opt to prefer an appeal to the Dean Academics, in the matter.
- B. The student shall be allowed to register the same course (in which s/he is caught under UFM) as per the policies applicable for DROPEd Courses under CCLCAA Ordinance 2018, with the EXCEPTION that s/he shall not be allowed to appear for the immediate Make Up Test, if caught in C3 assessment.

### General Notes:

- i. The CCLCAA Ordinance 2018 permits students to DROP a Course / Semester, in case one is not confident or feels that s/he has more to learn, before appearing in the assessment.
- ii. It is also important to bring to the fore that once blemished with the usage of UFM, the concerned student is automatically barred from being considered for a Medal / Merit Certificate etc. decoration by the Institute. Depending upon the gravity of the case, Institute may even withhold issuing a Good Character Certificate.

PS 3/3