ORDINANCES AND REGULATIONS (In light of NEP 2020)

for

Bachelor of Technology (Applicable for 2022 batch onward)



National Institute of Technology Arunachal Pradesh Arunachal Pradesh– 791113

	B. Tech. RULES AND REGULATIONS				
	(Applicable from 2022 Batch Onwards)				
Ι	All B. Tech. programme offered by the Institute shall be governed by the B. Tech. Rules and Regulations.				
II	The B. Tech. rules and regulations shall be applicable to any new discipline(s) under this programme that may be introduced in the future.				
III	A student becomes eligible for the award of the B. Tech. degree after fulfilling all the academic requirements and extra-academic activities as prescribed by the B. Tech. Rules and Regulations.				
IV	At present, the Institute has the following B. Tec	ch. programmes:			
	Branches	Departments			
	Civil Engineering	Civil Engineering			
	Computer Science and Engineering	Computer Science and Engineering			
	Electronics and Communication Engineering	Electronics and Communication Engineering			
	Electrical Engineering	Electrical Engineering			
	Mechanical Engineering	Mechanical Engineering			
	Chemical Engineering	Chemical Engineering			
	Biotechnology	Biotechnology			
	1. ACADEMIC	C CALENDAR			
1.1	Each academic year is divided into two semester	ers of approximately eighteen weeks each (with at			
		emester): an odd semester (July- December) and an			
	even semester (January-June).	, , , ,			
1.2		ic activities for a session, inclusive of dates for			
		aminations, inter-semester breaks etc., shall be laid			
	down in the Academic Calendar for the session.				
		ISSION			
2.1	The number of seats in each branch of the under	rgraduate programme for which admission is to be			
		ded by the Senate of NIT Arunachal Pradesh. Seats			
	are reserved for candidates as per norms laid dow				
2.2	Admission to all courses will be made in the odd semester of each session, at the first year level, through a Joint Entrance Examination (JEE) conducted by CBSE. Detailed rules of JEE are available in the "Information Brochure" published by the IITs/NITs every year.				
2.3	· · · · ·	* *			
	If, at any time after admission, a candidate is found not fulfilling all the requirements stipulated in the offer of admission, the Dean Academic may revoke the admission of the candidate and report the matter to the Senate.				
2.4		ission of any student and ask him/her to discontinue			
	0	he grounds of unsatisfactory academicperformance			
		he former will be governed by these Rules and			
	Regulations, while the criteria for the latter will be governed by the Rules and Regulations of the Code and Conduct of Students.				
	3. RESI	DENCE			
3.1		ts shall be required to reside in, and be members of			
3.2		reside with his/her Parent/Guardian in the Institute			
		nedical grounds. Such a student shall, however, be			
I	-	eat rent according to rules, and Hostel establishment			
	charges fixed by the Hostel Management Committee. However, this permission may be withdrawn				

	at the discretion of the Institute, at any time considered appropriate by it, without assigning any			
	reason.			
3.3	No married accommodation shall be provided to any student of the undergraduate courses.			
3.4	All students must abide by the rules and regulations of the hostel as may be framed from time to time by the Hostel Management Committee (HMC) and approved by the Senate.			
	4. ATTENDANCE			
4.1	(a) Attendance in all classes (Lectures, Tutorials, Laboratories, Workshops, NCC, NSS and other			
	pre-publicized programme etc. for which they have been registered) is compulsory.			
	(b) A student will be debarred from appearing in an end-semester examination if his/her attendance			
	falls below 75% and will be awarded an Incomplete (I) grade in that course.			
	(i) In case of medical grounds, the Chairman senate will decide on permitting students for appearing end semester examination.			
	(ii) A student who has less than 75% attendance, first has to submit his/her application to			
	Dean (Academic) and on approval, has to complete the respective course of study in			
	any form of assignments/quiz/tutorial and so on and subsequently will be allowed to			
	appear for the end semester examination. A student who fails to follow the above			
	process the "I" grade will be automatically converted to "F" grade.			
5.1	5. LEAVE OF ABSENCE			
5.1	a) If the period of leave is for a short duration (less than two weeks), prior application for leave			
	shall have to be submitted to the Head of the Department concerned stating fully the reasons for			
	the leave requested along with supporting document(s). Students attending startup/internships etc.			
	for which leave of absence shall be counted for attendance. Such leave will be granted by the Head			
	of the Department.			
	b) Absence for a period not exceeding two weeks in a semester due to sickness or any other			
	unavoidable reasons for which prior application could not be made may be condoned by the Head			
	of the Department provided he/she is satisfied with the explanation.			
	c) If the period of absence is likely to exceed two weeks, a prior application for a grant of leave			
	will have to be submitted through the Head of the Department to the Dean Academic with			
	supporting documents in each case; the decision to grant leave shall be taken by the Dean Academic on the recommendation of the Head of the Department.			
	d) The Dean Academic may, on receipt of an application also decide whether the student be asked			
	to withdraw from the course for that particular semester because of long absence.			
	e) The leave of absence as per Clauses 5.1 (a) to 5.1 (c) will not be condoned for attendance.			
5.2	It will be the responsibility of the student to intimate the Warden of the hostel in which he/she is			
	residing, and the concerned instructors regarding his/her absence before availing the leave.			
5.3	In exceptional circumstances, the Dean of Academic Affairs in consultation with the Chairman, Senate may relax any of the above requirements.			
	6. CONDUCT AND DISCIPLINE			
6.1	Students shall conduct themselves within and outside the precincts of the Institute in a manner			
	befitting the students of an institution of national importance. The Institute has a separate ordinance Code and Conduct of Students which is applicable to all students of the Institute.			
	7. CHANGE OF BRANCH			
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7.1	Normally a student admitted to a particular branch of the undergraduate programme will continue studying in that branch till completion.
7.2	However, the Institute may permit a student admitted through JEE to change from one branch of
	studies to another after the first two semesters. Such changes will be permitted, in accordance with
	the provisions laid down hereinafter.
7.3	Only those students will be considered eligible for change of branch/programme after the second
	(even) semester, who have
	(a) Completed all the credits prescribed in the first two semesters of their studies, in their first
	attempt, without having had to pass any course requirement in the summer examination.
	(b) Obtained a CGPA not lower than 8.5, at the end of the Second (Even) Semester.
7.4	Applications for a change of branch/programme must be made by intending eligible students in the
	prescribed form. The Dean (Academic) will call for applications at the end of the second semester
	of each academic year and the completed forms must be submitted by the last date specified in his
	notification.
7.5	Students may enlist their choices of branch/programme, in order of preference, to which they wish
,	to change over. It will not be permissible to alter the choices after the application has been submitted.
7.6	Change of branch/programme shall be made strictly in order of merit of the applicants. For this
7.0	purpose, the CGPA obtained at the end of the second semester shall be considered. In case of a tie,
	the JEE rank of the applicants will be considered.
7.7	The applicants may be allowed a change in branch/programme, strictly in order of inter se merit,
/./	subject to the limitation that the strength of a branch should not fall below the existing strength by
	more than 10% and should not go above the sanctioned strength by more than 10%.
7.8	All changes of branch/programme made in accordance with the above rules will be effective from
7.0	the third semester of the applicant concerned. No change of branch/programme shall be permitted
	hereafter.
7.9	All changes of branch/programme will be final and binding on the applicants. No student will be
1.)	permitted, under any circumstances, to refuse the change of branch/programme offered.
	8. COURSE STRUCTURE
8.1	The subjects are categorized as:
0.1	Science Core (SC), Engineering Science and Arts (ESA), Departmental Specific Core (DSC),
	Departmental Specific Elective (DSE), Open Elective (OE), Ability Enhancement Compulsory
	Course (AECC), Skill Enhancement Compulsory Course (SECC), Value Added Course
	(VAC)/Dissertation, Laboratory (LAB).
	Teaching of the courses shall be reckoned in credits; Credits are assigned to the courses based on
	the following general pattern:
	1 credit for each lecture period
	1 credit for each tutorial period
	0.5 credit per hour for each Laboratory or Practical or Project session. Learning hours/credit will be
	considered as per the requirements of the subject and shall be decided by the subject
	coordinator/Head of the Department. The minimum contact hour required in a semester is 600 hrs
	and hence it is 1200 hrs in a year.
8.2	In order to qualify for a B. Tech. degree of the Institute, a student is required to complete the
0.2	credit requirement as prescribed in the curriculum for a particular programme. The credit
	requirements for an undergraduate degree programme have been fixed 170 credits. However,
	multiple exit is also possible as given below:
	(a) Certificate will be awarded after completion of the first year for which a student has to earn
	44 credits.
	(b) Diploma will be awarded after completion of the second year for which a student has to earn
	86 credits (i.e 44 credit points from the first year and another 42 credit points from the second
	year).
	(c) Advanced Diploma will be awarded after completion of the third year for which a student

	has to earn 133 credits (i.e 44 credit points from first year, 42 credit points from second year		
	and 47 credit points from third year).		
	Generally, it is expected that once a student takes admission to undergraduate programme he/she shall complete the course at once to get the final degree. However, the exit option will be available only for on genuine reasons such as prolonged diseases/death of a family member/earned a job offer		
	that needs temporary exit from the programme. If a student opts for a temporary exit from the programme after first/second/third year, prior, approval has to be taken from Dean (Academic) with the recommendation of the Head of the Department.		
8.3	In addition to the prescribed credit requirement, a student shall have to mandatorily pass valu addition course (NSS/NCC/Yoga), in the first semester. For the audit course, the corresponding grad will be Pass (P) or Fail (F).		
8.4	Every B. Tech. Programme will have a curriculum and syllabi for the courses approved by the Senate. The Board of Studies (BoS) will discuss and recommend the syllabi of all the under graduate courses offered by the department from time to time before sending the same to the Senate for consideration and approval. For all approved courses, the copyright will be with NIT Arunachal Pradesh.		
8.5	The primary medium of instruction is English. However, students may be encouraged to learn other mediums of study based on their interests.		
8.6	The curriculum of every department includes compulsory Ability Enhancement Compulsory Course (AECC) like Internship for every undergraduate student. Internship is to be satisfactorily		
	completed before a student is declared eligible for the Advanced Diploma and Degree. Internship		
	is to be carried out during the summervacation after fourth/sixth semester of studies & the		
	same will be evaluated based onhis/her submission of a certificate from the organization of		
	his/her training followed by a combined viva-voce/presentation and report submission in the subsequent semesters. The minimum duration of every internship should be 4 weeks.		
0.1	9. ELECTIVE COURSES		
9.1	Two types of elective courses are offered.		
	I. Departmental Specific Elective (DSE): DSEs are electives offered by the concerned department		
	for their respective students		
	for their respective students.		
	for their respective students. Moreover, there are two compulsory ONLINE department specific electives for every department. Students must register themselves for these two online courses (with due recommendation of the departmental committee) in the 8 th semester. If required, students can register this/these courses in		
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	payment of Registration fees on the scheduled dates of registration. There shall not be any provision				
	of deputing any representative by him/her for registration purposes.				
10.3	A student must pass all subjects of the first year with a minimum CGPA of 4.00 before registering				
	5 th semester. If a student fails any subjects in the first or second year, he or she must register for a				
	summer course, appear for i	t, and pass the backlog	subjects. The details of the summer cou	irse ma	
	be seen in clause 18.				
10.4 A student who does not register on the day announced in the Academic Calendar for t			purpo		
	may be permitted, in consideration of any compelling reason (inclusive of medical reasons), la				
	registration within the date specified in the academic calendar on payment of a prevalent additional				
	late fee as prescribed by the Institute. However, under special cases like natural calamity or calamity				
	in the family, the registration of a student may be allowed up to a maximum period of 10 workidays from the date of registration with a late fee.				
10.5			ys with a late fine shall not be consider	red. If	
			will be assumed as "voluntarily discontir		
		. DURATION OF TH			
11.1			ee will be of EIGHT semesters.		
			aw after first/second/third years as ment	ioned	
	· 1	1 2	who do not fulfill some of the requirer		
		-	bsequent semesters may be permitted u		
	-	-	complete all the requirements for the	-	
			be permitted to complete the B.Tech. De		
	regular continuing students.	-		0	
			I THE PROGRAMME		
12.1	A student may be terminated				
	-	the Institute on discipl			
	· · · · · · · · · · · · · · · · · · ·	-	lse documents or having made false dec	claratio	
	at the time of seeking admis			onun un	
	C		. 1. 1/ 1	/1 11	
	,	1 0 0	ar studies and/or correspondence courses	(leadin	
	to degree or diploma) in any	other college, universit	ity or educational institution.		
	d) On having been fou	nd to be concurrently	employed and performing duty or carry	ying o	
		o academic schedules	of the Institute and without approval f	from th	
	Institute.				
	13. GRADING SYSTEM				
13.1	-	of a student, each stude	nt is awarded a final letter grade in each	•	
13.1	-	of a student, each stude		•	
13.1	-	of a student, each stude The letter grades and the	ent is awarded a final letter grade in each e corresponding grade points are as follo	•	
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	at the end of the semester. T	of a student, each studeThe letter grades and theLetter GradeAAABBBBCCCCDDDFImula:PA x 9.5%verage (SGPA) will be	ont is awarded a final letter grade in each e corresponding grade points are as follor Grade point per credit 10 9 8 7 6 5 4 0 - computed for each semester rounded up	ws:	

	SGPA = $(C1*G1 + C2*G2 + C3*G3 + + Cn*Gn) / (C1 + C2 + C3 + + Cn)$				
	where, n is the number of courses registered during the semester, Ci is the number of credits a				
		cular course, and			
	1	grade points corresponding to the grade awarded for the course.			
13.4		lative Grade Point Average (CGPA) will be computed at the end of each semester and			
1011		icated to the students along with the SGPA and the grades obtained by them for that			
	semester				
	The CGF	PA gives the cumulative performance of the student from the first semester up to			
		of the semester to which it refers, and will be calculated rounded up to two decimal places			
	as follows:				
	CGPA =	(C1*G1 + C2*G2 + C3*G3 + + Cm*Gm) / (C1 + C2 + C3 + + Cm)			
		is the number of courses registered up to that semester, Ci is the number of credits allotted			
	to a parti	cular course, and			
	Gi is the	grade points corresponding to the grade awarded for the course.			
	Wheneve	er a student repeats a course in any semester, the lower grade(s) obtained by him/her in the			
		to be ignored in the computation of CGPA from that semester onwards.			
13.5	Both SG	PA and CGPA will be rounded off to the second place of decimal and recorded as such. For			
	determin	ing the inter se merit ranking of a group of students, only the rounded off values of the			
	CGPA w	ill be used.			
		14. ASSESSMENT OF PERFORMANCE			
14.1	a) There	will be continuous assessment of a student's performance throughout the semester and			
	-	ill be awarded by the course coordinator or the appropriate committee appointed for this			
		on the following basis:			
		or theory Courses			
		wo quizzes (one before mid-semester and one before end-semester) with weightage of 10%			
	• •	It semester with weightage of 30%			
		ssignments with weightage of 10%			
		nd semester with weightage 50% Total: 100%			
(B) In the case of only practical courses, the assessment will be done by the		• 1			
	• •	preferably follow:			
		'iva-voce: 30%			
	· /	eport Evaluation: 30%			
	(c) A	ssigned experiments/performance: 40%			
	b) The ev	valuation of the project work will be based on sessional work assigned by the supervisor;			
seminar, project report, and project evaluation committees' assessment (als		project report, and project evaluation committees' assessment (also see Clause 14.2 below).			
		a case of other requirements such as seminars, extra academic activities etc., the evaluation			
		1			
		he results or performance of the students in the mid-semester examination shall be			
		ed by the course coordinator. The course coordinator should workout the following points			
	for showing evaluated mid-semester answer scripts to the students:				
	I.	for spot verification by students, the evaluated answer scripts shall be made available			
	1.	during one of the lecture classes/lab classes/tutorials or during a special session, as may			
		be deemed fit by the course coordinator;			
	II.	students shall point out discrepancies in the evaluation by the course coordinator, if any,			
	11.	on the spot and no claim whatsoever shall be entertained afterward;			
	III.	After spot verification of answer scripts, the course coordinator should submit the marks			
	111.	to the Dean (Academic) through the Head of the Department on or before the date			
		announced for the same.			

	f) The final grades for a subject must be submitted coordinator through the Head of the Department t in the academic calendar.	•
 end of the semester in which it is being carried a) The project work is normally in two statistics stage, the student is required to submit a parescribed date to the Project Coordinator Committee (IPEC). The evaluation will be base (to be assessed by IPEC, 20%), and presentation b) The second stage of the project work Department will form a project evaluation boar approval from the Chairman Senate for the purposed of the project work in the project work in the chairman Senate for the purposed of the p		es, each spread over a semester. At the end of the iminary report of his/her work by nd present it to the Internal Project Evaluation on supervisors' assessment (40%), project report & viva-voce (to be assessed by IPEC, 40%). continued to the next semester. The Head of the with at least one external Expert & taking final
	Subcomponent	Weightage
	Supervisor's assessment	40%
	Project Report/Thesis (to be assessed by the board)	20%
	Evaluation Board's assessment	40%
15.1 15.2	The entire process of evaluation shall be made tran to a student why he gets whatever grade he is awa for review of grades to the Dean (Academic) throu Head of the Department on or before the date spec	rded, if and when required. A student may appear gh the concerned course coordinator & concerned cified in the Academic Calendar.
15.2	The fee for such an appeal will be decided by the	
15.5	In case of any change in grade, the same will be in 16 FXAMIN	*
16.1	16. EXAMINATIONS In assessing the student's attainment in subjects (Theory, Laboratory, and Sessional), seminars, project work etc., the system of continuous assessment is adopted by the Institute. In conformity with this practice, there will be one mid semester examination (30%) and end semester examination (70%), and for sessional subjects (Laboratory/Design/Drawing/Workshop etc.), the evaluation will be on the basis of attendance, assessment of the tasks assigned and end semester test/viva (as in 14.1 (a)).	
16.2	The Mid Semester and End Semester Examination will be conducted centrally by the Academic Section of the Institute in every semester. Every theory course must have a Mid Semester and an End-Semester Examination. The durations of the examinations will be 2 hours and 3 hours respectively. Department should form a moderation committee for setting the question paper. The departmental moderation committee should have an external expert from IITs/NITs/CFIs.	
16.3	A student may be debarred from appearing in the end semester examination due to the following reasons:a) If any disciplinary action is taken against him/her.b) On the recommendation of a teacher, if	

	i) His/her attendance in the Lecture/Tutorial/Practical classes in a particular subject has			
	not beensatisfactory during the semester (falls below 75%), and/or,			
	ii) His/her performance in the sessional work done during the semester has been unsatisfactory.			
16.4	The debarred students will have to re-register for that subject in the semester in which it is offered. The debarred students preferably have to attend the classes of that subject along with his/her regular semester classes to fulfill the criteria of 75% attendance.			
	17. MAKE-UP EXAMINATIONS			
17.1	If a student misses the End Semester Examination due to a compelling reason like a serious illness of himself/herself or a calamity in the family, he/she may appeal to the Dean of Academics through the HOD within seven days from the date of the examination missed explaining the valid reasons for their absence with evidence for permitting himself/herself to appear at the make-up examination The schedule of make-up examination will be notified by the Examination cell in accordance with clause no. 4.1.			
17.2	No Make-Up Examination will be conducted for the Mid-Semester Examination centrally by the Academic Section. It is entirely up to the course coordinator to ascertain the proficiency of the student by whatever means considered appropriate to him/her.			
17.3	Students residing in the hostels should produce a medical certificate issued by the InstituteMedica Officer only. Students who are permitted to stay outside the campus or who have been authorized to be away from the Institute should produce a medical certificate from a Medical Officer not below the rank of a Civil Surgeon and endorsed by the Institute Medical Officer. Certificates from private medical practitioners will not be accepted. The Dean of Academics can use his/her discretion in giving permission to a student for make-up examination.			
17.4	Make-up examinations will be held as per the dates notified in the Academic Calendar. Makeup examinations at any other time can be held only with the permission of the Dean of Academics.			
	18. SUMMER COURSE			
18.1	Students who have obtained "F" grades in the semester examinations will be permitted to appear in the Summer course examination. All eligible students need to attend this course.			
18.2	The assessment of performance and marking pattern will be the same as given in item no. 14.1			
18.3	Every student shall be required to pay the prescribed fees per course at the time of registration for the summer course.			
18.4	The highest grade a student can earn in a summer course is "BC".			
	19. WITHHOLDING OF GRADES			
19.1	Grades shall be withheld when the student has not paid his/her dues or when there is a disciplinary action pending against him/her.			
	20. RESULT MODERATION BOARD (RMB)			
20.1	The result prepared by the Tabulators and Examination In-charge shall be presented to the RMB			
	of the institute for moderation. The RMB shall comprise of:			
	(i) Dean Academic Chairman			
	(ii) Associate Dean Member			
	(iii) All HoDs Member			
20.2	The RMB may moderate the result of a student submitted by the Examination In-charge.			
20.3	On the approval of the Director, the moderated result shall be published by the Examination In- charge on a specified date in the Academic Calendar.			
	21. GRADUATION/EXIT PROGRAMME REQUIREMENT			

	a) completed all the credit requirements as mentioned in clause 8.2 as laid down in the prescribed curriculumof the discipline with a minimum CGPA 0f 4.00				
	b) satisfactorily completed all the non-credit requirements for the degree vi mandatorily pass one value addition course (NSS/NCC/Yoga)c) cleared all dues to the Institute, the Hall of Residence, the Library, and the Departments and				
	d) no disciplinary action is pending against him/her.				
21.2	The award of Certificate/Diploma/Advanced Diploma/Degree must be approved by the senate and placed in the Board of Governors of the Institute for information.				
21.3	At least 15 days prior to the start of semester registration, a student must submit an application to the Dean Academic with due recommendation of the departmental committee (clause 10.1) for withdrawal/exit from the programme in accordance with clause 8.2. Also, there should not be any outstanding dues from him/her by the Institute/Hostel/Department/Library/Sports, etc.				
21.4	 Additionally, a student is only permitted to withdraw temporarily after an odd semester once during the course of their entire programme under the following conditions: (a) he/she applies to the Dean Academic with due recommendation of the departmental committee (clause 10.1) at least 15 days prior to the start of semester registration, stating fully the reasons for such withdrawal together with supporting documents and endorsement of his/her parents/guardian; (b) the Institute is satisfied that, counting the period of withdrawal, the student is likely to complete his/her requirements of the B. Tech. Degree within the time limits specified in Clause 11.1 above; there are no outstanding dues from him/her by the Institute/ Hostel/Department/Library/Sports/NCC/NSS. (c) A student who has been granted a temporary withdrawal from the Institute under the provisions mentioned in clause 21.4 (a) and (b) will be required to pay Rs. 1000/- (rupees one thousand only) for the intervening period till such time as his/her name is borne on the Roll List. However, fees once paid will not be refunded. 				
	22. POWER TO MODIFY				
22.1	Notwithstanding all that has been stated above, the Senate has the right to modify any of the above rules and regulations from time to time.				

APPENDIX A

BOARD OF STUDIES (BOS)				
COMPOSITION:				
Ι	Head of the Department	Chairman		
II	All Professors / Associate Professors / Assistant	Members		
	Professors in the regular position of the Department			
III	One senior faculty to be co-opted by the BoS from the	Members		
	Cognate area to be nominated by the Chairman, Senate			
IV	One subject expert (ACADEMICIAN) is to be	Members		
	nominated by the Chairman, Senate from IISc / IITs			
	/IISER/IIM/ NITs / CFTIs.			
V	One subject expert (INDUSTRY) nominated by the	Members		
	Chairman, Senate on the recommendation of the Head			
	of concerned Department from Central / State			

	Orga	nization / PSU (preference shall be given to	
	Alum	ni if available from the Industry and at least of	
	Mana	agerial rank.	
VI	More	persons from academia/industry may be co-	Members
	opted	l with the approval of the Chairman, Senate (as	
	per re	equirement).	
		TENURE	
	The	BoS shall be constituted by the department for a p	period of THREE years.
		FUNCTIONS	
Ι	The r	neetings of the BoS shall be arranged at least TW	ICE IN A YEAR.
II	The I	Board of Studies shall have the powers:	
	i)	To prepare detailed content of different courses	of each department and submit
	-		
	ii)	Revise / update the contents of the syllabi from t	ime to time and submit them to
		the Senate for approval.	