OFFICE OF THE REGISTRAR

Ref No: AU/REG/NOT/2023/07/012-A

Date: 31.07.2023

Notification

Sub: Implementation of NEP Guidelines::2020

The undersigned is directed to notify that, implementation of NEP 2020 compliant Adamas University Curriculum and Credit Framework for Undergraduate Programs.

Registrar

To,

- **All Employees of Adamas University**
- **All Students of Adamas University**

Copy to,

1. Hon'ble Chancellor
2. Hon'ble Vice Chancellor
3. President, Chancellor's Office
4. Pro-Vice Chancellor(s)
5. Office of the Chancellor
6. All Deans
7. Vice President, Chancellor's Office
8. All Directors
9. Controller of Examinations
10. CFO
11. All HODs
12. Law Officer
13. Deputy Librarian
14. Chief Technology Officer
15. Head, Student Facilitation Center
16. Assistant Registrar (Academics)
17. Chief Hostel Warden
18. Hostel warden (Girls & Boys)
19. Accounts Officer
20. Assistant Registrar-HR
21. Office File
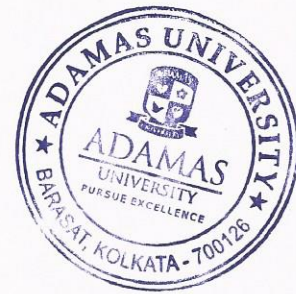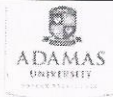
Guidelines for Implementation of NEP 2020 Compliant Programmes

Adamas University Curriculum and Credit Framework for Undergraduate Programme 2023
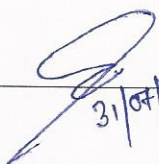
1. Introduction

The Government of India announced the National Education Policy-2020 (NEP 2020) in July 2020. NEP 2020 states that quality higher education "must enable an individual to study one or more specialized areas of interest at a deep level, and also develop character, ethical and Constitutional values, intellectual curiosity, scientific temper, creativity, spirit of service, and twenty-first century capabilities across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational subjects." It also states that "a quality higher education must enable personal accomplishment and enlightenment, constructive public engagement, and productive contribution to the society" and must "prepare students for more meaningful and satisfying lives and work roles and enable economic independence."

The proposed new 4 year UG program structure **"Adamas University Curriculum and Credit Framework for Undergraduate Programmes 2023"** is based on UGC Curriculum and Credit Framework for Undergraduate Programmes published by the UGC in December 2022. This guideline published by the UGC follows the philosophy embedded in the New Education Policy (NEP). It further accommodates The National Higher Education Qualifications Framework (NHEQF), National Skill Qualification Framework (NSQF) as well as the ideas described in National Credit Framework (NCrF).

The general structure presented here which has accommodated all the categories defined in the UGC framework mentioned earlier. The structure proposed has major (core) courses as well as minor courses. Any student majoring in a subject has to take minor from related disciplines as well as from other disciplines. This is described in a nutshell in the details which follow. Along with this a student has to take Ability Enhancement Courses (AEC), Skill Enhancement Courses (SEC), Value Added Courses (VAC), internship as well as Multidisciplinary Courses (MDC). The idea is to allow students attain theoretical as well as experiential learning.

The proposed structure is more or less consistent with those offered by other universities in this state. However, although exit options are mentioned in the UGC and NEP documents for each completed year of UG education, it is proposed that the exit option will be given only at the end of the third year. The student will get Undergraduate degree in the relevant discipline without honours. After the fourth year of study, the student can get a bachelor degree with honours but with two options – B.A. or B.Sc (Honours) or B.A. or B.Sc (Honours with research). Along with that if the student takes at least 50 percent of the minor courses (4 in this case) offered in a related discipline to the major discipline, he or she will get a bachelor degree in the major with minor in the related discipline. Thus a student with B.Sc (honours with or without research) in Economics can pass out with a minor in Mathematics or Statistics.

As is clear from the *UGC guideline, this new 4 year UG course framework is aimed at Humanities, Social Sciences and Science courses* not covered by any other national body. The courses designed by other national bodies like AICTE, BCI, NCTE, PCI, MCI etc. are not covered by this UGC guideline. This is followed in the proposed 4 year UG curriculum designed for ADAMAS University too.
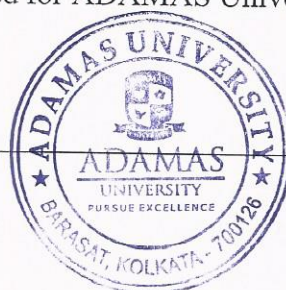
2. Curriculum and Credit Framework

2.1 Salient Features

i   Flexibility to move from one discipline of study to another

ii   Opportunity for learners to choose the courses of their interest in all disciplines;

iii   Flexibility for learners to move from one institution to another to enable them to have multi and/or interdisciplinary learning;

iv   Flexibility to switch to alternative modes of learning (offline, ODL, and Online learning, and hybrid modes of learning).

2.2 Definitions and duration of the programme

- A **semester** comprises 90 working days and an academic year is divided into two semesters.
- A **summer term** is for eight weeks during summer vacation. Internship/apprenticeship/work-based vocational education and training can be carried out during the summer term.

2.3 Major and Minor Disciplines

- **Major discipline** is the discipline or subject of main focus and the degree will be awarded in that discipline. Students should secure the prescribed number of credits (about 50% of total credits) through core courses in the major discipline.

- **Minor discipline** helps a student to gain a broader understanding beyond the major discipline.

2.4 Awarding Undergraduate Degrees

3-year UG Degree: Students who wish to undergo a 3-year UG programme will be awarded UG Degree in the Major discipline after successful completion of three years, securing 127 credits and satisfying the minimum credit requirement as given in structure of the UG programmes
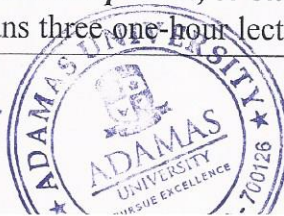
4-year UG Degree (Honours): A four-year UG Honours degree in the major discipline will be awarded to those who complete a four-year degree programme with 167 credits and have satisfied the credit requirements as given in structure of the UG programmes.

4-year UG Degree (Honours with Research): Students *who secure 75% marks and above in the first six semesters* and wish to undertake research at the undergraduate level can choose a research stream in the fourth year. They should do a research project or dissertation under the guidance of a faculty member of the University/College. The research project/dissertation will be in the major discipline. *The students who secure 167 credits, including 12 credits from a research project/dissertation, are awarded UG Degree (Honours with Research).*

2.5 Credit hours for different types of courses

Each course may have only a lecture component or a lecture and tutorial component or a lecture and practicum component or a lecture, tutorial, and practicum component, or only practicum component. For example, a three-credit lecture course in a semester means three one-hour lectures per week with each one-

hour lecture counted as one credit. In a semester of 15 weeks' duration, a three-credit lecture course is equivalent to 45 hours of teaching.

One credit for tutorial work means one hour of engagement per week. In a semester of 15 weeks' duration, a one-credit tutorial in a course is equivalent to 15 hours of engagement.

A one-credit course in practicum or lab work, community engagement and services, and fieldwork in a semester mean two-hour engagement per week. In a semester of 15 weeks' duration, a one-credit practicum in a course is equivalent to 30 hours of engagement.

2.6 Number of credits by type of course

a. Major and Minor Courses:

All *discipline-specific courses (major or minor)* may be **4 credits** or as appropriate including tutorials or practical.

b. Other Courses:

All courses under *the Multi-disciplinary(MDC) and Ability Enhancement (language)(AEC),)* categories may be of **3-credits** or as appropriate;

c. Skill Enhancement Courses:

All courses under *Skill Enhancement (SEC)* categories may be of **2-credits** or as appropriate;

d. Common Value-Added Courses (VAC):

Courses under *Value Added,* Community outreach activities, etc., for all majors, may be of **2-credits** or as appropriate;

e. *Summer Internship*/ **Apprenticeship** may be of 4 credits

d. Final year Research project / *Dissertation* etc., may be of **12 credits**.

3. Structure of Undergraduate Programme

3.1 Levels of Courses

i	0-99:	*Pre-requisite courses*
ii	100-199:	*Foundation or introductory courses*
iii	200-299:	*Intermediate-level courses*
iv	300-399:	*Higher-level courses*
v	400-499:	*Advanced courses*

3.2 Change of Major

Change of Major: Students can opt for a *change of major within the broad discipline* (Natural and Physical Sciences, Mathematical, Statistics, and Computational Sciences, Library, Information and Media Sciences, Commerce and Management, and Humanities and Social Sciences) *at the end of the first year*.

3.3 Structure of the UG Programme

- *Minor stream courses can be from the 3rd 300 or above level and 50% of the total credits from minors must be secured in the relevant subject/discipline* and another 50% of the total credits from a minor can be earned from any discipline as per students' choice.
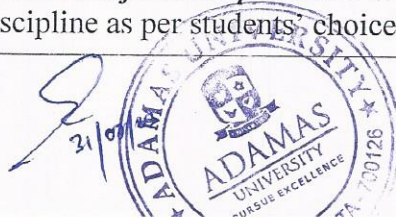
- Students will not be allowed to take the same courses studied in the 12th class under the interdisciplinary category.
- Honours students not undertaking research will do 3 courses for 12 credits in lieu of a research project / Dissertation.
- 40% of the credits in any category may be earned through online courses approved by the Department and University as per the existing UGC regulations.
- VIII-Semester core major may be seminar-based with students' presentations and discussions.
- Students may take audit courses without any credits.

Sl. No.	Category of Course	Credit Requirement		
		3-year UG	4-year UG (Hons.)	4-year UG (Hons. With Research)
01	Major Core	60	88	80
02	Minor Course	24	36	32
03	Ability Enhancement Course (AEC)	8	8	8
04	Multidisciplinary Course (MDC)	9	9	9
05	Skill Enhancement Course (SEC)	10	10	10
06	Value Added Course common for all UG	8	8	8
07	Summer Internship	4	4	4
08	Academic Project	4	4	4
09	Research Project/Dissertation	0	0	12
	Total	**127**	**167**	**167**

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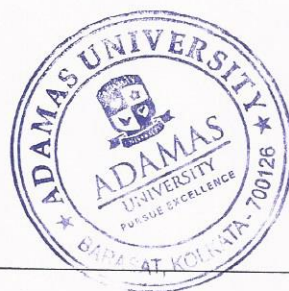
The Semester-wise and Broad Course Category-wise Distribution of credits of the Undergraduate Programme:

SCHOOL OF...................

UNDERGRADUATE COURSE STRUCTURE
B.A. (Honours)/B.Sc (Honours) in ....
BATCH 2023-2027

SEMESTER I

S.No	Type of Course	Code	Title of the Course	Contact Hours Per Week				Remarks
				L	T	P	C	
1	CC	100-199	Major core course				4	CC-1
2	CC	100-199	Major core course				4	CC-2
3	MDC		To be chosen from pool of multidisciplinary courses				3	
4	AEC	AEC101	To be chosen from pool of AEC				3	
5	Minor	100-199	To be chosen from pool of minors				4	
6	VAC	100-199	To be chosen from pool of VAC				2	
Semester Credits							**20**	

SEMESTER II

S.No	Type of Course	Code	Title of the Course	Contact Hours Per Week				Remarks
7	CC	100-199	Major core course				4	CC-3
8	CC	100-199	Major core course				4	CC-4
9	MDC		To be chosen from pool of multidisciplinary courses				3	
10	SEC		To be chosen from pool of skill courses				2	
11	VAC		To be chosen from pool of VAC				2	
12	AEC		To be chosen from pool of AEC				3	
13	Minor	100-199	To be chosen from pool of minors				4	
Semester Credits							**22**	

SEMESTER III

S.No	Type of Course	Code	Title of the Course	Contact Hours Per Week				Remarks
14	CC	200-299	Major core course				4	CC-5
15	CC	200-299	Major core course				4	CC-6
16	MDC		To be chosen from pool of multidisciplinary courses				3	
17	Minor	200-299	To be chosen from pool of minors				4	
18	AEC		To be chosen from pool of AEC				2	
19	SEC		To be chosen from pool of skill courses				2	
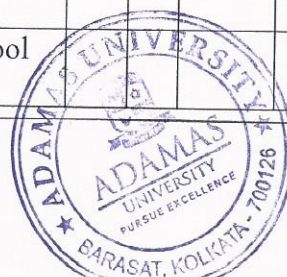
20	VAC		To be chosen from pool of VAC courses					2	
Semester Credits								**21**	
SEMESTER IV									
21	CC	200-299	Major core course					4	CC-7
22	CC	200-299	Major core course					4	CC-8
23	CC	200-299	Major core courses					4	CC-9
24	SEC		To be chosen from pool of skill courses					2	
25	Minor	200-299	To be chosen from pool of minor courses					4	
26	VAC		To be chosen from pool of VAC					2	
Semester Credits								**20**	
SEMESTER V									
27	CC	300-399	Major core course					4	CC-10
28	CC	300-399	Major core course					4	CC-11
29	CC	300-399	Major core course					4	CC-12
30	Minor	300-399	To be chosen from pool of minor courses					4	
31	SEC		To be chosen from pool of skill courses					2	
31	INT		Internship					4	
Semester Credits								**22**	
SEMESTER VI									
32	CC	300-399	Major core course					4	CC-13
33	CC	300-399	Major core course					4	CC-14
34	CC	300-399	Major core course					4	CC-15
35	Minor	300-399	To be chosen from pool of minor courses					4	
36	SEC		To be chosen from pool of skill courses					2	
37	Project		Academic Project					4	
Semester Credits								**22**	
Total Credits of the Program after 3rd Year								**127**	
SEMESTER VII									
38	CC	400-499	Major core course					4	CC-16
39	CC	400-499	Major core course					4	CC-17
40	CC	400-499	Major core course					4	CC-18
41	CC (For With research)	400-499	Research Methodology (should start working on dissertation topic)					4	CC-19 (Research)
42	CC (For Without research)	400-499	Major core course					4	CC-19(without Research)
43	Minor	300-399	To be chosen from pool of minor courses					4	
Total Semester Credit								**20**	

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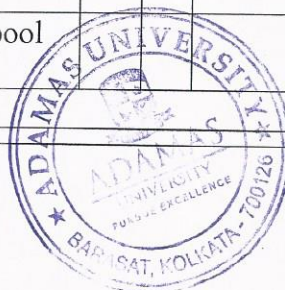
			Semester VIII					
44	CC	400-499	Major core course				4	CC-20
45	CC (For Without research)	400-499	Major core course				4	CC-21 (without Research)
46	CC (For Without Research)	400-499	Major core course				4	CC-22(without Research)
47	Minor	300-399	To be chosen from pool of minor courses				4	
48	Minor (For without research)	300-399					4	
49	Dissertation	400-499	Project/Dissertation	12	0	0	12	
			Total Semester Credit				**20**	
			Total Credits of the Program after 4th Year				**167**	

Ability Enhancement Course

Serial No.	Course Code	Courses	L	T	P	C	Department
1	AEC101	Communicative English-I	2	1	0	3	PAN University (Sem -I)
2	AEC102	Communicative English-II	2	1	0	3	PAN University (Sem-II)
3	AEC103	Introduction to Bengali Language and Literature	2	0	0	2	PAN University
4	AEC104	Hindi	2	0	0	2	PAN University
5	AEC105	Sanskrit	2	0	0	2	PAN University

Value Added Course

Serial No.	Course Code	Courses	L	T	P	C	Department
1	VAC101	Environmental Education-I	2	0	0	2	PAN University
2	VAC102	Human Values and Ethics	2	0	0	2	PAN University
3	VAC103	Constitutions and Human Rights	2	0	0	2	PAN University
4	VAC104	Yoga and Wellness	2	0	0	2	PAN University
5	VAC105	Community Engagement and Social	1	0	1	2	PAN University

		Responsibility					
6	VAC201	Environmental Education-II	1	0	1	2	PAN University

Skill Enhancement Course

Serial No.	Course Code	Courses	L	T	P	C
1	SEC101	Forensic Photography	1	0	1	2
2	SEC102	Wildlife Forensics	1	0	1	2
3	SEC103	Introduction to Biometry	1	0	1	2
4	SEC104	Handwriting Identification and recognition	1	0	1	2
5	SEC105	Accidental Investigation	1	0	1	2
6	SEC106	Green Methods in Chemistry	2	0	0	2
7	SEC107	Fuel Chemistry	2	0	0	2
8	SEC108	Pharmaceutical Chemistry	1	0	1	2
9	SEC109	Mathematics for chemistry	1	1	0	2
10	SEC110	Computation in Chemistry	1	0	1	2
11	SEC111	Environmental Economics	1	1	0	2
12	SEC112	Conservation Biology and Wildlife Management	2	0	0	2
13	SEC113	Green Marketing and Consumer Behaviour	2	0	0	2
14	SEC114	Environmental Sampling and Field Techniques	1	0	1	2
15	SEC115	Environmental and Social Governance	2	0	0	2
16	SEC116	Environmental Analytical Chemistry	1	0	1	2
17	SEC117	Application of AI-ML in Environmental Management	1	0	1	2
18	SEC118	Environmental Entrepreneurship and Innovation	1	1	0	2
19	SEC119	Circular Economy and Resource Management	2	0	0	2
20	SEC120	Climate Change Science	2	0	0	2
21	SEC121	Ecological Restoration	2	0	0	2
22	SEC122	Introduction to Scientific Analysis and Documentation Skills	0	0	2	2
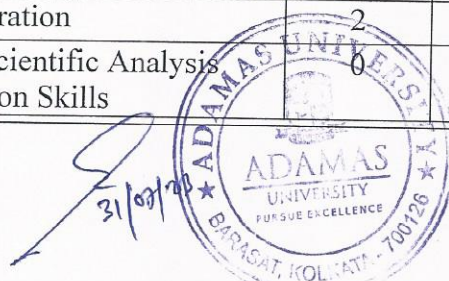
23	SEC123	Introduction to C/C++ Programming	0	0	2	2
24	SEC124	Instrumentation Skills	0	0	2	2
25	SEC125	Radiation Safety Techniques	1	0	1	2
26	SEC126	Introduction to Python Programming	0	0	2	2
27	SEC127	R Programming	0	0	2	2
28	SEC128	Introduction to MATLAB	0	0	2	2
29	SEC129	Q GIS	0	0	2	2
30	SEC130	Statistical Techniques and Computer Application	1	0	1	2
31	SEC131	Geoinformatics for Environmental Management	1	0	1	2
32	SEC132	Life Skills Education	1	1	0	2
33	SEC133	Skills for Democratic Citizenship	1	1	0	2
34	SEC134	Enzymology	1	0	1	2
35	SEC135	Basics of Forensic Biology	1	0	1	2
36	SEC136	Applied Biophysics	1	0	1	2
37	SEC137	Molecular Diagnostics	1	0	1	2
38	SEC138	Biostatistics	1	0	1	2
39	SEC139	Applied Biophysics1	1	0	1	2
40	SEC140	Applied Biophysics2	1	0	1	2
41	SEC141	Microbial and Molecular diagnostics	1	0	1	2
42	SEC142	IPR and Biosafety	1	1	0	2
43	SEC143	Quality control and quality assurance	1	0	1	2
44	SEC144	Clinical Biochemistry	1	0	1	2
45	SEC145	Forensic Science	1	0	1	2
46	SEC146	Molecular diagnostics	1	0	1	2
47	SEC147	AI in Biology	1	0	1	2
48	SEC148	Writing and Editing Skill	1	1	0	2
49	SEC149	Computer Application in Bengali	1	0	1	2
50	SEC150	Bengali Advertising	1	1	0	2
51	SEC151	Introduction Business Analytics	1	0	1	2
52	SEC152	Negotiation skills in Business and Management	1	1	0	2
53	SEC153	Introduction to accounting	1	1	0	2
54	SEC154	People management and Leadership	2	0	0	2
55	SEC155	Introduction to sales management	1	1	0	2
56	SEC156	Conflict management skills	1	1	0	2
57	SEC157	Finance for non-finance professionals	1	1	0	2
58	SEC158	Academic writing skills in management and business	1	1	0	2
59	SEC159	Professional etiquette and behaviour at workplace	1	1	0	2
60	SEC160	AI Algorithm's in Media	1	0	1	2
61	SEC161	MoJo	1	0	1	2
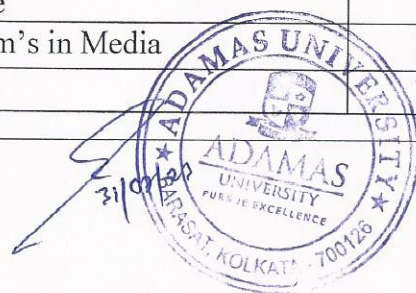
62	SEC162	Anchoring Skills	1	0	1	2
63	SEC163	Podcasting	1	0	1	2
64	SEC164	Basics of Stock Market	1	1	0	2
65	SEC165	Introduction to GST	1	1	0	2
66	SEC166	Computer Applications	1	1	0	2

Registrar