



# 4 year BS programme

through Design your own degree (DYOD) mode

April 27, 2024

# Outline

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# Why Design your own degree?

- **Customization**

- Students design their academic journeys based on their interests, aptitudes, and career aspirations
- Break traditional boundaries between subjects
- blend arts, sciences, commerce → well-rounded education, multidisciplinary education.

- **Pedagogy** → Project based collaborative problem solving

- *Active learning* → students work on real-world problems to acquire knowledge and skills.
- Promote → critical thinking, analytical skills, deeper understanding of subjects by placing students in practical situations.
- *Projects* → interdisciplinary learning, collaboration, creativity, communication skills
- Peer learning, understand diverse perspectives, develop team skills.

# Why Design your own degree?

- Increased emphasis on internships, projects, and fieldwork
- Interdisciplinary and transdisciplinary learning
- Skill development → essential for the future workplace → critical thinking, digital literacy, leadership
- Flexible/Innovative evaluation mechanisms
- Integration of Technology → better learning experiences using online resources, digital collaboration tools, simulation software
- Flexibility in duration and exit options → educational journey is tuned to individual student needs.
- Many similarities between NEP2020 and DYOD

## Academic Scheme

# Academic Scheme

- The BS program through DYOD is a four year UG program to be coordinated by Design Innovation Centre (DIC@IUST).
- **Nomenclature:** → **BS<sup>1</sup> in a Major discipline** → **through DYOD mode.**
- **Duration:** 4 years (8 semesters) for BS (Hons / Research) in Regular mode.
- Students would *Major* in a specific domain (seven subject areas have been identified as of now)
- **More than 50% of total credits need to be earned in the Major discipline to qualify for BS in the Major discipline.**
- **Semester break-up**

Semester	Courses	Department
1,2,3	All domains	DIC
4	Bridge Semester	Majoring department
5,6,7,8	Major	Majoring department

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<sup>1</sup>The nomenclature is proposed on the recommendations of the Expert Committee to Review the Notification on the Specification of Degrees and Suggest New Degree Nomenclature(s) formed by UGC

# Academic Scheme - Course Baskets

## Five baskets identified in Major disciplines:

S.no	Theme	Acronym	Course Basket	Basket code
1.	Physical, Biological Sciences	PBS	Basket 1	S
2.	Mathematical skills	MS		
3.	Humanities, Social Sciences	HSS	Basket 2	H
4.	Business management	BM		
5.	Artificial Intelligence, Data Science	AID	Basket 3	C
6.	Digital Literacy	DL		
7.	Environment, Sustainable Development	ES	Basket 4	D
8.	Creativity, Innovation, Design	CID		
9.	Personal Development	PD	Basket 5	W
10.	Health, Wellness, Nutrition	HWN		

# Academic Scheme - Year 1 and 2

## Semester details

- **Semesters 1** → Foundational semester → All students enrol in one course from each basket → No choice given
- **Semester 2** → Multiple courses floated in each basket, students opt for one course from each basket → Choice given
- **Semester 3** → Flexibility to choose all the subjects from any one of the baskets → first step towards declaring Major.
- **Declare Major after Semester 3**
- **Semester 4** → Bridge semester → Cover-up deficiencies identified by Majoring department



## Academic Scheme - Additional points

- Semester long project to be done in all semesters - in coordination with mentoring faculty associated with DYOD.
- Semester-long project in the last four semesters would be aligned to the Major subject area.
- Primary Pedagogy → collaborative project based problem solving.

## Academic Scheme - Courses

S.no	Course name	Theme	Course Basket
1.	Physics as Fun: Unveiling the Magic	PBS	Basket 1
2.	Molecules of Life	PBS	
3.	Basic chemistry and Chemistry in Everyday Life	PBS	
4.	<b>The Joy of Maths: From zero to infinity</b>	MS	
5.	Maths and Art	MS	
6.	<b>Inclusive Learning With Liberal Arts</b>	HSS	Basket 2
7.	Lessons from History	HSS	
8.	Poetry, Prose and Drama - An Introductory journey	HSS	
9.	Manager's everyday toolbox	BM	
10.	Entrepreneurship and Innovation	BM	

## Academic Scheme - Courses

S.no	Course name	Theme	Course Basket
11.	<b>Artificial Intelligence for All</b>	AID	Basket 3
12.	AI Unveiled: Python powered intelligence	AID	
13.	Data-The modern day currency	DL	
14.	Social Media and Education	DL	
15.	Computation for solving real world problems	DL	
16.	Introduction to Environmental Sustainability	ES	Basket 4
17.	Introduction to Climate Change and Resilience	OES	
18.	<b>Design Thinking</b>	CID	
19.	Art and Aesthetics	CID	
20.	Theory of Change	CID	

## Academic Scheme - Courses

S.no	Course name	Theme	Course Basket
21.	The Art of Effective Communication	PD	Basket 5
22.	Fun To Know Food	HWN	
23.	Life Support Heroes	HWN	
24.	Eat Smart, Live Well: Your Path to Wellness	HWN	
25.	Disaster proofing your world	HWN	

# Academic Scheme-Semester-I

Course code	Course	L-T-P-S	Credits
DIC101S	Joy of Mathematics: From zero to infinity	2-0-1-0	3
DIC101H	Inclusive Learning With Liberal Arts	2-0-0-1	3
DIC101C	AI for all	1-0-1-1	3
DIC101D	Design Thinking	1-0-0-2	3
DIC101W	Art of effective communication	1-1-0-1	3
DIC101E	Project I		4
DIC102E	Study Tour		2
			21

## Academic Scheme-Semester-II

Course code	Course	Credits
DIC10*S	Course from basket-1	3
DIC10*H	Course from basket-2	3
DIC10*C	Course from basket-3	3
DIC10*D	Course from basket-4	3
DIC10*W	Course from basket-5	3
DIC103E	Project II	4
DIC104E	Seminar	2
		21

### Course codes

- Department Code: DIC, First year Code: 1\*\*
- Subject Code: 1,2,...,n, Basket Code: S,H,C,D,W,E

## Majors

# Majors

## Integration with existing FYUGP BS (Hons/Research) courses:

- English → Department of English Language and Literature
- Islamic Studies → Department of Islamic Studies
- Mathematical Sciences → Department of Mathematical Sciences

## New courses, BS (Hons/Research) in:

- Media Studies → Department of Journalism and Media Studies
- Data Science → Department of Mathematical Sciences
- Artificial Intelligence → Centre of Artificial Intelligence
- Economics → Department of Economics

The list of new programmes will be expanded if similar new programmes are introduced at IUST.



## Evaluation Scheme

# Evaluation Scheme

## **Flexibility and Novelty** in evaluation

- Continuous Internal Assessment (CIA) based on assignments throughout the semester, e.g., Literature review, group discussions and presentations → 50% marks.
- End semester evaluation in the form of open book exams, 24/48-hour long problem solving, group projects or syllabus oriented Q&A based exam → 50% marks.

Early exit

# Early exit and future admissions

## Early exit

- 3 years (6 semesters) BS
- 2 years (4 semesters) Diploma
- 1 year (2 semesters) Certificate Course

**Nomenclature and credits for early exit** Early exit option prescribed under NEP-2020 will be implemented.