CURRICULUM FRAMEWORK AND CREDIT SYSTEM FOR THE FOUR-YEAR UNDERGRADUATE PROGRAMME (FYUGP)

**As per Provisions of NEP-2020
to be implemented from Academic Year 2022-23**

For the State Universities of Jharkhand

**R S More College, Govindpur, BBMKU
02/08/2022**

Dhananjay K. Singh
NEP Coordinator, BBMKU

National Education Policy 2020

Ministry of Human Resource Development

Government of India

This policy envisions a **complete overhaul** and re-energising of the higher education system to includes the following key changes to the current system:

Multidisciplinary

Four Year Undergraduate Programme

Multiple Entry and Multiple Exit (ME-ME) System

Academic Bank of Credit (ABC)

Holistic Education

No Separation Between Arts/Science/Commerce

Emphasis on Skill-Based Vocational Studies

Emphasis on Research

Draft National Higher Education Qualifications Framework (NHEQF)

Curricular Framework and Credit System for the Four-Year Undergraduate Programme

1.0.   Introduction

The National Education Policy (NEP) 2020 (hereafter referred to as NEP or Policy) recognises that higher education plays an extremely important role in promoting human as well as societal well- being and in developing India as envisioned in its Constitution - a democratic, just, socially conscious, cultured, and humane nation upholding liberty, equality, fraternity, and justice for all. It notes that "given the 21st century requirements, quality higher education must aim to develop good, thoughtful, well-rounded, and creative individuals" and enable an individual to study one or more specialised areas of interest at a deep level, and also develop capabilities across a range of disciplines including sciences, social sciences, arts, humanities, languages, as well as professional, technical, and vocational subjects.

The NEP 2020 envisages the revision of the Choice Based Credit System (CBCS) for instilling innovation and flexibility. It also envisages setting up of facilitative norms for issues, such as credit transfer, equivalence, etc., and moving towards a criterion-based grading system that assesses student achievement based on the learning goals for each programme, and moving away from high-stakes examinations towards more continuous and comprehensive evaluation. The policy supports the establishment of an Academic Bank of Credit (ABC) which would digitally store the academic credits earned from various recognized HEIs so that the degrees from an HEI can be awarded taking into account the credits earned.

2.0.   Anchors to the National Education Policy 2020

2.1.   NEP principles that have a bearing on the curricular thrusts at different stages of higher education

The NEP highlights certain fundamental principles that would guide both the education system at large, as well as the individual educational institutions. The principles that have a direct bearing on the curricula for different levels of higher education include:

- Recognizing, identifying, and fostering the unique capabilities of each student to promote her/his holistic development;
- Flexibility, so that learners have the ability to choose their learning trajectories and programmes, and thereby choose their own paths in life according to their talents and interests;
- No hard separations between 'arts' and 'sciences', between 'curricular' and 'extra- curricular' activities, between 'vocational' and 'academic streams', etc.
- Multidisciplinarity and a holistic education across the sciences, social sciences, arts, humanities, and sports for a multidisciplinary world;
- Emphasis on conceptual understanding rather than rote learning and learning-for- exams; creativity and critical thinking to encourage logical decision-making and innovation; ethics and human & constitutional values, and life skills such as communication, cooperation, teamwork, and resilience;

Members of the State Level NEP Implementation Cell for Preparing the Regulation for FYUGP

Name	Designation
Sri K. K. Khandelwal, Chairman	Additional Chief Secretary, **Dept. of Higher and Technical Education**, Jharkhand
Sri Suraj Kumar	Director, **Dept. of Higher and Technical Education**, Jharkhand
Dr. Vibha Pandey	Deputy Director, **Dept. of Higher and Technical Education**, Jharkhand
Dr. Anamol Kumar Lal	Deputy Director, **Dept. of Higher and Technical Education**, Jharkhand
Dr. Rajkumar Sharma	Dean Students' Welfare', **Ranchi University**, Ranchi, Jharkhand
Dr. Hira Nandan Prasad	University Professor & Dean (Humanities), **NPU**, Medininagar
Dr. Indrajit Kumar	Associate Professor, University Dept. of Chemistry, **VBU**, Hazaribag
Dr. Sarvottam Kumar	Associate Professor, University Dept. of Geography, **DSPMU**, Ranchi
Dr. T.P. Singh	Associate Professor, University Dept. of Economics, **SKMU**, Dumka
Dr. Ranjeet Kumar Karn	Assistant Professor, University Dept. of Physics, **Kolhan University**, Chaibasa,
Dr. Neeraj	Assistant Professor, University Dept. of Chemistry, **Ranchi University**, Ranchi
Dr. Raj Kumar Singh	Assistant Professor, University Dept. of Physics, **Ranchi University**, Ranchi
Dr. Dhananjay Kumar Singh	Assistant Professor, Dept. of Physics, P.K.R.M. College, **BBMKU**, Dhanbad

FOUR-YEAR UNDERGRADUATE PROGRAMME (FYUGP)

TRANSFORMATIVE INITIATIVES:

- Undergraduate degree programmes of either **3 or 4-year duration**, with **multiple entries and exit points**

    - a **Certificate** after completing 1 year (2 semesters) of study in the chosen fields of study,

    - a **Diploma** after 2 years (4 semesters) of study,

    - a **Bachelor Degree** after a 3-year (6 semesters) programme of study,

    - a **Bachelor Degree (with Hons. / Research)** after a 4-year (8 semesters) programme of study

- **Holistic and multidisciplinary** education across the humanities, natural sciences, social sciences and commerce;

- Adoption of **flexible curricular structures** to enable creative combinations of disciplinary areas

- Credit-based courses and projects in the areas of **community engagement and service, value based education**

- Focus on **Vocational Education**

- Emphasis on **Language and Communication Skills**

- Rigorous **Research-based Specialization** .

CREDIT FRAMEWORK: FYUGP

	Common Courses (29)									Introductory Courses (15)		Internship/ Project (4)	Major* (54) + Adv. Major (24)	Minor** (32)		Research Courses (18)				Total Credit
Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)	Introductory Courses [Natural Sc./ Humanities/ Social Sc./Commerce] (9)	Introductory Course [Vocational Studies] (6)	Internship/ Project (4)	Major* (54) + Adv. Major (24)	Natural Sc./ Humanities/ Social Sc./ Commerce (18)	Vocational Studies (14)	Research Methodology Courses (6)	Research Proposal, Review of literature (4)	Research Internship/ Field Work (4)	Preparation of the research project Report (4)	**176**
1	2	3	4	5	6	7	8			9	10	11	14	15	16	17	18	19	20	21
I	6			2	2					3	3		6							**22**
II		6					2	2		3	3		6							**22**
Exit Point: Undergraduate Certificate																				
III			3			3			3	3		4	6							**22**
IV													6+6	6	4					**22**
Exit Point: Undergraduate Diploma																				
V													6+6	6	4					**22**
VI													6+6	6	4					**22**
Exit Point: Bachelor's Degree																				
VII													6+6 (Adv. Topics)			6	4			**22**
VIII													6+6 (Adv. Topics)		2			4	4	**22**
Exit Point: Bachelor's Degree with Hons. /Research																				

CREDIT FRAMEWORK: FYUGP

Semester	Common Courses (29 Credits)									Introductory Courses (15)		Internship/ Project (4)	Major* (54) + Adv. Major (24)	Minor** (32)		Research Courses (18)				Total Credit
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I	6			2	2					3	3		6							**22**
II		6					2	2		3	3		6							**22**
Exit Point: Undergraduate Certificate																				
III			3			3			3	3		4	6							**22**
IV													6+6	6	4					**22**
Exit Point: Undergraduate Diploma																				
V													6+6	6	4					**22**
VI													6+6	6	4					**22**
Exit Point: Bachelor's Degree																				
VII													6+6 (Adv. Topics)			6	4			**22**
VIII													6+6 (Adv. Topics)		2			4	4	**22**
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FYUGP: Common Courses

Semester	Common Courses (29 Credits)								
	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
1	2	3	4	5	6	7	8		
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

- **Key Curricular Component of FYUGP under NEP**

The course work during the first three semesters of the FYUGP will consist of a set of courses that are **common for all students**:

- Language Education (two languages: MIL/TRL and English language),
- Understanding India,
- Environmental Science,
- Digital & Technological Solutions,
- Mathematical and Computational Thinking and Analysis,
- Heath & wellness, Yoga education, and sports and fitness,

Syllabus Guideline: Language & Communication Skills

Common Courses (29 Credits)

Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
	1	2	3	4	5	6	7	8	
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Language and Communication Skills

Subject		Symbol	Full Marks	Credits
MIL: Hindi Communication		MIL	100	6
Non-Hindi +	Or	NH	50	3
TRL/ other language communication		TRL/ Other Language	50	3
English Communication		Eng. Comm.	100	6

Sem. I
Sem. II

- Special emphasis on language and **communication** skills.
- To enable the students to acquire and demonstrate the core linguistic skills, including **critical reading** and **expository and academic writing skills**
- To develop the ability to participate/conduct **discussion and debate**.
- To acquaint with the cultural and intellectual heritage of the chosen MIL and English language

Syllabus Guideline: Understanding India

Common Courses (29 Credits)

Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
	1	2	3	4	5	6	7	8	
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Environmental Studies [Semester-III, Credit-03]

- To study the effects of environmental degradation, climate change and pollution

- Effective waste management

- Conservation of biological diversity

- Management of biological resources

- Forest and wildlife conservation

- Sustainable development and living

- Understanding of India's environment in its totality

- A unit in the context of Jharkhand

Syllabus Guideline: Understanding India

Common Courses (29 Credits)

Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
	1	2	3	4	5	6	7	8	
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Understanding India [Semester-I, Credit-02]

To enable the students to acquire and demonstrate the:
- knowledge and understanding of contemporary India with its historical perspective
- basic framework of the goals and policies of national development
- constitutional obligations with special emphasis on constitutional values and fundamental rights and duties.
- Indian knowledge systems, Indian education System
- Understanding of India's freedom struggle and of the values and ideals that it represented.
- roles and responsibilities as effective citizens of a democratic society.
- A unit in the context of Jharkhand

Theory Paper, 100 Marks

Syllabus Guideline: Understanding India

Common Courses (29 Credits)

Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
1	2	3	4	5	6	7	8		
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Health & Wellness, Yoga Education, Sports & Fitness

[Semester-I, Credit-02]

- To **promote** an optimal state of physical, emotional, intellectual, social spiritual and environmental wellbeing of a person.

- To **organise** sports and fitness activities outside the regular institutional working hours.

- **Yoga education**

- Focus on **skills related fitness** like strength, speed, coordination, endurance and flexibility;

- Improvement of **tactical abilities**; and improvement of **mental abilities.**

Syllabus Guideline: Understanding India

Common Courses (29 Credits)									
Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
1	2	3	4	5	6	7	8		
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Digital Education [Semester-III, Credit-03]

- An overview of Computer System

- Basic Hardware & Software

- Operating System

- Word Processing, Spread Sheets and Presentation

- Internet

- e-Governance Services

- Digital Financial Tools & Applications

- Cyber Security

Syllabus Guideline: Mathematical Thinking & Computational Analysis

Common Courses (29 Credits)

Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
1	2	3	4	5	6	7	8		
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Mathematical Thinking & Computational Analysis
[Semester-II, Credit-02]

- To focus primarily on **the mathematical and statistical tools** used to support the study of natural and social sciences.

- To focus on the **methodology used to analyse quantitative information** to make decisions
  -

- To enable students for defining a problem by means of **numerical or geometrical representations**.

- Deducing **inferences**, formulating **alternatives**, and predicting **cause and effect relationships**.
  - Organizing a data sets to reveal patterns that suggest relationships.

Syllabus Guideline: Mathematical Thinking & Computational Analysis

Common Courses (29 Credits)

Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
1	2	3	4	5	6	7	8		
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Global Citizenship Education & Education for Sustainable Development [Semester-II, Credit-02]

- Aware of and Understanding of global, economical, environmental and sustainable issues

- Active promoters of more peaceful, tolerant, inclusive, secure, and sustainable societies.

- Universal human values and responsible global citizenship values.

- To instil integrity and values to follow ethical practices at work.

Syllabus Guideline: Mathematical Thinking & Computational Analysis

Semester	Common Courses (29 Credits)								
	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)
1	2	3	4	5	6	7	8		
I	6			2	2				
II		6					2	2	
Exit Point: Undergraduate Certificate									
III			3			3			3

Community Engagement & Service (NSS/ NCC/ Adult Education) [Semester-III, Credit-03]

- Courses requiring students to participate in field-based learning/project

- Activities that would expose students to the socio-economic issues so that the theoretical learnings can be supplemented by actual life experiences

- To instil the desire and ability to participate in activities/services that are undertaken in collaboration with community members for promoting the wellbeing of the society,

- Participation in National Services Scheme (NSS), National Cadet Corps (NCC), adult literacy/education programmes, mentoring school students etc.

INTRODUCTORY COURSES

Semester	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)	Introductory Courses [Natural Sc./ Humanities/ Social Sc./Commerce] (9)	Introductory Course [Vocational Studies] (6)	Internship/ Project (4)	Major* (54) + Adv. Major (24)	Natural Sc./ Humanities/ Social Sc./ Commerce (18)	Vocational Studies (14)	Research Methodology Courses (6)	Research Proposal, Review of literature (4)	Research Internship/ Field Work (4)	Preparation of the research project Report (4)	Total Credit 176
	2	3	4	5	6	7	8			9	10	11	14	15	16	17	18	19	20	21
I	6			2	2					3	3		6							22
II		6					2	2		3	3		6							22
Exit Point: Undergraduate Certificate																				
III			3			3			3	3		4	6							22
IV													6+6	6	4					22
Exit Point: Undergraduate Diploma																				
V													6+6	6	4					22
VI													6+6	6	4					22
Exit Point: Bachelor's Degree																				
VII													6+6 (Adv. Topics)			6	4			22
VIII													6+6 (Adv. Topics)		2			4	4	22
Exit Point: Bachelor's Degree with Hons. /Research																				

Common Courses (29) — Introductory Courses (15) — Minor** (32) — Research Courses (18)

CREDIT FRAMEWORK: FYUGP

Semester	Introductory Courses (15)	
	Introductory Courses [Natural Sc./ Humanities/ Social Sc./Commerce] (9)	Introductory Course [Vocational Studies] (6)
1	9	10
I	3	3
II	3	3
Exit Point: Undergraduate Certificate		
III	3	

- The introductory course will be of 15 credits to be covered during the first three semesters,
  - 09 credits will be for introductory regular courses and
  - 06 credits for introductory vocational studies.

Introductory Regular Courses

At the time of admission, a student has to select a Major subject and three other subjects for 'Introductory Regular Courses' from a pool of subjects offered by the institution, associated with the selected Major. One of the three subjects will be continued as 'Minor' from semester IV onwards, based on the academic interest and performance of the student.

Introductory Vocational Studies- Students will have to select one vocational course of 6 credits from the provided set of courses. The 6 credits will be covered during the first two semesters.

Choice of Subjects (IRC/MINOR)

Major	Botany	Chemistry	Mathematics	Physics	Geology	Statistics	Zoology	Anthropology	Economics	Geography	History	Home Science	Political Science	Psychology	Sociology	Commerce	Philosophy	Bengali	English	Hindi	Khortha	Kurmali	Sanskrit	Santhali	Urdu	Total
Natural Science																										
Botany		✓			✓		✓	✓	✓																	10
Chemistry	✓		✓	✓	✓		✓		✓	✓			✓													13
Mathematics		✓		✓	✓	✓			✓							✓										11
Physics		✓	✓		✓	✓			✓	✓							✓									12
Geology	✓	✓	✓	✓			✓	✓	✓	✓																13
Statistics			✓						✓	✓	✓		✓			✓										11
Zoology	✓	✓			✓			✓	✓					✓												11
Social Science																										
Anthropology					✓		✓		✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	22
Economics			✓		✓			✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	24
Geography			✓			✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	23
History			✓			✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	22
Home Science		✓					✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	23
Political Science								✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	21
Psychology							✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	22
Sociology								✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	21
C Commerce			✓		✓			✓	✓	✓	✓	✓	✓	✓	✓		✓									16
Humanities																										
Philosophy								✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	22
Bengali				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									16
English				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓						17
Hindi				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓					17
Khortha				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									16
Kurmali				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									16
Sanskrit				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									16
Santhali				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									16
Urdu				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									16

CREDIT FRAMEWORK: FYUGP

Semester	Introductory Courses (15)	
	Introductory Courses [Natural Sc./ Humanities/ Social Sc./Commerce] (9)	Introductory Course [Vocational Studies] (6)
1	9	10
I	3	3
II	3	3
Exit Point: Undergraduate Certificate		
III	3	

Introductory Vocational Courses

- **The course would involve Workshop-based activities** requiring engagement of students in hands-on activities related to work/vocation or professional practice.

- Every student is engaged in performing a **skill-based activity related to specific learning outcome(s**).

- **30 hours of workshop-based activities per credit** in a semester along with **15 hours of out-of-class activities** such as preparation for the workshop activity, completing assignments, and independent reading and study.

- The total learner engaged time for a **one credit-hour** workshop activity would be **45 hours**.

Proposed Vocational Courses at BBMKU

1. Nursing
2. Tailoring
3. Electrician
4. Carpenter
5. A.C. Fitting
6. Plumbing
7. Pottery
8. Beautician
9. Computer Hardware/Software
10. Typing
11. Translation
12. Interior Designing
13. Yoga Therapy & Naturopathy
14. Organic Farming
15. Insurance sector
16. Fashion Designing/ Boutique
17. Embroidery
18. Handicraft
19. Foreign Language
20. Tally
21. Mobile Phone Repairing
22. Computer Network Management
23. House Wiring & electrical repairing
24. Web Designing
25. Tourism
26. Event Management
27. Catering management
28. Nutrition and Dietetics
29. Office Management
30. Advertising design

The list may include other courses also proposed by Colleges.

Offering Vocational Studies at Colleges

Offering Vocational Studies at Colleges

https://www.nielit.gov.in/content/nsqf

राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान
National Institute of Electronics & Information Technology

Ministry of Electronics & Information Technology
Government of India

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Students Zone

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NSQF Courses

NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels. The National Skills Qualifications Framework (NSQF) organizes qualifications according to a series of levels of knowledge, skills and aptitude. These levels, graded from one to ten, are defined in terms of learning outcomes which the learner must possess regardless of whether they were acquired through formal, non-formal or informal learning. It is, therefore, a nationally integrated education and competency-based skill and quality assurance framework that will provide for multiple pathways, horizontal as well as vertical, including vocational education, vocational training, general education and technical education, thus linking one level of learning to another higher level. This will enable a person to acquire desired competency levels, transit to the job market and at an opportune time, return for acquiring additional skills to further upgrade their competencies. NSQF in India was notified on 27th December 2013.

NSQF aligned courses# :   As of now, 34 Courses of NIELIT have been NSQF aligned.

Students Zone

Courses

Digital Literacy Courses

Non-Formal Courses

Formal Courses

Short Term Courses

Short Term Courses in Software

Short Term Courses in Hardware & Networking

Offering Vocational Studies at Colleges

NSQF aligned courses# : As of now, 34 Courses of NIELIT have been NSQF aligned.

Electronics	11	**Click here for Details**
IT	23	**Click here for Details**
Total Approved Courses	34	

Offering Vocational Studies at Colleges

Courses Aligned with National Skills Qualifications Framework (NSQF) - IT

Sl.No	Course Name	Aligned at Level	Notional Hours	Planned Review on	View Details
1.	Course on Computer Concepts (CCC)	3	80	21-Sep-2023	View Here
2.	Advance Diploma in Computer Application Accounting and Publishing	4	200	21-Sep-2022	View Here
3.	Certification Course in Data Entry and Office Automation	4	135	21-Sep-2022	View Here
4.	Certificate in Computer Applications, Business Accounting & Multi Lingual DTP	4	900	26-Feb-2023	View Here
5.	O level (IT)	5	480	21-Sep-2023	View Here
6.	Certificate course in CAD using CREO	5	100	20-Nov-2022	View Here
7.	A Level	6	1550	21-Sep-2023	View Here
8.	Certificate Course in System Administration using Unix	6	80	19-Nov-2022	View Here
9.	Certificate Course in System Administration using Linux	6	80	19-Nov-2022	View Here
10.	Certified Web Developer	3	210	31-Mar-2027	View Here
11.	Certified System and Networking Specialist	4	360	31-Mar-2027	View Here
12.	Certified Data Analyst	5	240	31-Mar-2026	View Here
13.	Post Graduate Program in Data Engineering	6	840	31-Mar-2027	View Here
14.	Certificate Course in ITES BPO, Soft Skills & Communicative English	3	250	13-Nov-2024	View Here
15.	Computer Aided Tool Designer	4	1600	30-Dec-2024	View Here
16.	Certified Cloud Computing Engineer	5	840	30-Dec-2026	View Here
17.	Certified Multimedia Developer	3	200	24-Feb-2026	View Here
18.	Foundation course in Information Security	4	90	24-Feb-2027	View Here
19.	Foundation course in Machine Learning using Python	4	90	24-Feb-2027	View Here
20.	Foundation course in Artificial Intelligence Applications	4	90	24-Feb-2027	View Here
21.	Foundation course in Block chain Development	4	90	24-Feb-2027	View Here
22.	Certified Artificial Intelligence (AI) Associate "Upskilling"	4	240	28-Apr-2027	View Here
23.	Certified Cloud Computing and Virtualization Expert	4	210	31-Mar-2027	View Here

Offering Vocational Studies at Colleges

Certification Course in Data Entry and Office Automation

Formal structure of the qualification

	Title of NOS/units or other components	EstimatedSize (Learning hours)	Level
I.	Introduction to Computer	5	3
II.	Introduction to GUI Based Operating System	5	3
III.	Elements of Word Processing	15	4
IV.	Spreadsheets	15	3
V.	Introduction to Internet, WWW and web browsers	15	4
VI.	Communication and Collaboration	5	3
VII.	Application of presentations	15	3
VIII.	Application of Digital Financial Services	5	3
IX.	Soft Skills	10	4
	Data Entry / Typing Test (in English) (A)	45	4
	Total Theory/Lecture (In Hours) (B)	40	
	Total Practical (In Hours) (C)	50	
	Total Duration (Hours)(A+B+C)	135	

Major & Minor

Semester	Common Courses (29)									Introductory Courses (15)		Internship/ Project (4)	Major* (54) + Adv. Major (24)	Minor** (32)		Research Courses (18)				Total Credit
	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)	Introductory Courses [Natural Sc./ Humanities/ Social Sc./Commerce] (9)	Introductory Course [Vocational Studies] (6)			Natural Sc./ Humanities/ Social Sc./ Commerce (18)	Vocational Studies (14)	Research Methodology Courses (6)	Research Proposal, Review of literature (4)	Research Internship/ Field Work (4)	Preparation of the research project Report (4)	176
	2	3	4	5	6	7	8			9	10	11	14	15	16	17	18	19	20	21
I	6			2	2					3	3		6							**22**
II		6					2	2		3	3		6							**22**
Exit Point: Undergraduate Certificate																				
III			3			3			3	3		4	6							**22**
IV													6+6	6	4					**22**
Exit Point: Undergraduate Diploma																				
V													6+6	6	4					**22**
VI													6+6	6	4					**22**
Exit Point: Bachelor's Degree																				
VII													6+6 (Adv. Topics)			6	4			**22**
VIII													6+6 (Adv. Topics)		2			4	4	**22**
Exit Point: Bachelor's Degree with Hons. /Research																				

4th Year (Sem. VII & VIII) dedicated to Research

Semester	Common Courses (29)									Introductory Courses (15)		Internship/ Project (4)	Major* (54) + Adv. Major (24)	Minor** (32)		Research Courses (18)				Total Credit
	Language and Communication Skills (Modern Indian language including TRL) (6)	Language and Communication Skills (English) (6)	Environmental Studies (3)	Understanding India (2)	Health & Wellness, Yoga Education, Sports & Fitness (2)	Digital Education (3)	Mathematical & Computational Thinking and Analysis (2)	Value-Based Course/ Global Citizenship Education (2)	Community Engagement/ NCC/ NSS/ (3)	Introductory Courses [Natural Sc./ Humanities/ Social Sc./Commerce] (9)	Introductory Course [Vocational Studies] (6)			Natural Sc./ Humanities/ Social Sc./ Commerce (18)	Vocational Studies (14)	Research Methodology Courses (6)	Research Proposal, Review of literature (4)	Research Internship/ Field Work (4)	Preparation of the research project Report (4)	176
1	2	3	4	5	6	7	8			9	10	11	14	15	16	17	18	19	20	21
I	6			2	2					3	3		6							**22**
II		6					2	2		3	3		6							**22**
Exit Point: Undergraduate Certificate																				
III			3			3			3	3		4	6							**22**
IV													6+6	6	4					**22**
Exit Point: Undergraduate Diploma																				
V													6+6	6	4					**22**
VI													6+6	6	4					**22**
Exit Point: Bachelor's Degree — CGPA: 7.5 or Above is required to enter Semester VII																				
VII													6+6 (Adv. Topics)			6	4			**22**
VIII													6+6 (Adv. Topics)		2			4	4	**22**
Exit Point: Bachelor's Degree with Hons. /Research																				

Syllabus Guideline: Major Courses

Semester	Major/ Adv. Major
1	MJ-1
2	MJ-2
3	MJ-3
4	MJ-4
	MJ-5
5	MJ-6
	MJ-7
	MJ-8
6	MJ-9
7	AMJ-1
	AMJ-2
8	AMJ-3
	AMJ-4

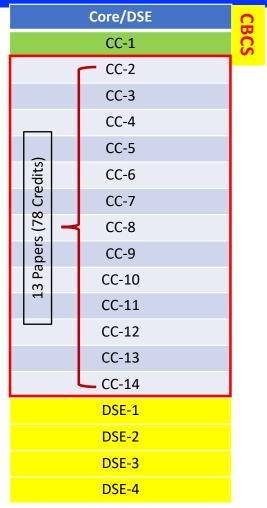MJ-2 to MJ-9: 8 Papers (48 Credits)

CC-1 is to be adopted as MJ-1

**For MJ-2 to MJ-9
Paper Titles first**

The Core papers MJ-1 to MJ-9 are to be prepared from selecting the contents equivalent to 48 Credits from the Contents of CC-2 to CC-14.
At this stage only Paper Titles are required to be submitted to State Level NEP Implementation Cell. It will finalize the titles after consultation and then University will prepare its syllabus as per this.

In CBCS curriculum of each subject a pool of papers is given for the selection of 4 DSE papers. This pool of papers will be used four the selection of four Advance Major (AMJ) papers in new framework.

For Non-practical subjects, each Major paper is of 6 Credits (90 hours course). For Practical subjects, each Major paper is of 4 Credit Theory (60 hours) + 2 Credit lab (60 hours).
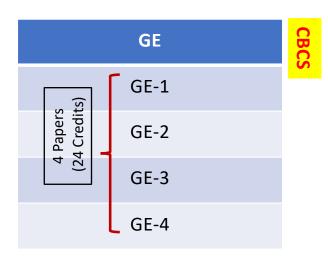
Core/DSE
CC-1
CC-2
CC-3
CC-4
CC-5
CC-6
CC-7
CC-8
CC-9
CC-10
CC-11
CC-12
CC-13
CC-14
DSE-1
DSE-2
DSE-3
DSE-4

CC-2 to CC-14: 13 Papers (78 Credits)

Syllabus Guideline: Minor Courses

FYUGP

Semester	Major/ Adv. Major	
4	MN-1	3 Papers (18 Credits)
5	MN-2	
6	MN-3	

For MN-1 to MN-3 Paper Titles first

CBCS

GE
GE-1
GE-2
GE-3
GE-4

4 Papers (24 Credits)

The Minor papers MJ-1 to MJ-9 are to be prepared from selecting the contents equivalent to 18 Credits from the Contents of GE-1 to GE-4.
At this stage only Paper Titles are required to be submitted to State Level NEP Implementation Cell. It will finalize the titles after consultation and then University will prepare its syllabus as per this.

For Non-practical subjects, each Minor Paper is of 6 Credits (90 hours course).
For Practical subjects, each Minor paper is of 4 Credit Theory (60 hours) + 2 Credit lab (60 hours).

Syllabus Guideline: Tasks in Hand

For ALL Departments:

- **To prepare syllabus of ONE Introductory Paper of each Subject.**

  The syllabus of introductory paper of a subject should aims to develop a coherent view of essential concepts, structures, and intellectual methods that characterise the subject. The learning outcome of this paper would be to instill broad understanding and an appreciation of the subject. (There will be no practical in the Introductory paper)

- **To Decide Paper Titles for MJ-2 to MJ-9 and MN-1 to MN-3**

For Hindi Department:
- To prepare a MIL Hindi paper (6 Credit, 100 Marks)
- To prepare a MIL (NH) paper (3 Credit, 50 Marks)

For other languages/TRL Departments:
- To prepare a MIL paper (3 Credit, 50 Marks)

Collective Tasks (Social Science/Humanities)
- Understanding India
- Global Citizenship Education
- Health & Wellness, Yoga Education

Collective Tasks (Science)
- Environmental Studies
- Digital Education
- Mathematical & Computational Thinking and Analysis

- Syllabus/framework for Community Engagement/ NCC/ NSS
- **Syllabus/framework for Vocational Studies??**