

डॉ.ए.पी.जे. अब्दुल कॅलाम विश्वविद्यालय, इन्दौर

Date 04/10/2024

प्रति,

श्रीमान प्राचार्य / डीन

विश्वविद्यालय में अध्ययनरत् समस्त सत्र 2024-25 (OBC/SC/ST) के विद्यार्थियों को सूचित किया जाता है कि सत्र 2024-25 (MPTAAS) के समस्त नवीनीकरण छात्रवृत्ति आवेदनों को पूर्ण करने की प्रक्रिया में महाविद्यालय स्तर पर विगत दो सेमेस्टर की अंकसूचियों में प्राप्तांक के प्रतिशत एवं विद्यार्थी की उपस्थिति को ONLINE MPTAAS PORTAL पर अपडेट करना निम्नलिखित चरणों में अनिवार्य है :-

1. विद्यार्थियों की दोनों सेमेस्टर की अंकसूचि को सत्यापित करना।

सत्र 2024-25 में (SC/ST) विद्यार्थियों की 75 प्रतिशत से अधिक उपस्थिती गत वर्ष से अंकित किया जाना है।

2. सत्यापन के उपरांत विद्यार्थियों की अंकसूचि एवं NO- DUES FORM को (L-BLOCK) छात्रवृत्ति विभाग में स्वयं विद्यार्थियों के द्वारा प्रेषित करना अनिवार्य है।

  
Dr. A.P. J. ABDUL KALAM UNIVERSITY  
INDORE

डॉ. ए.पी.जे. अब्दुल कलाम विश्वविद्यालय, इन्दौर

Date 04/10/2024

सूचना

(अति महत्वपूर्ण)

सत्र 2023-24 के समस्त अनुसूचित जाति/अनुसूचित जनजाति/पिछडावर्ग (SC/ST) के नवीनीकरण विद्यार्थियों को सूचित किया जाता है, कि पोस्ट मेट्रिक छात्रवृत्ति योजनांतर्गत नवीनीकरण (Renewal) के MPTAAS PORTAL पर आवेदन करने के लिये गत वर्ष की अंकसूची के साथ No - Dues की प्रक्रिया पूर्ण कर छात्रवृत्ति विभाग में दिनांक 21/10/2024 तक स्वयं छात्र - छात्राएं को Result Update कराने के लिये जमा कराना अनिवार्य है।

अतः आपको अवगत कराया जाता है कि MPTAAS PORTAL पर नवीनीकरण (SC/ST) ऑन लाईन छात्रवृत्ति आवेदन की प्रोसेस कर छात्रवृत्ति आवेदन की हाडकॉपी संबंधित विभाग में जमा करवाने के लिये अंतिम दिनांक 31/10/2024 है।

नवीनीकरण (Renewal) छात्रवृत्ति आवेदन मे वर्ष अनुसार ऑन लाईन प्रवेश तिथी निम्नानुसार है -

नवीनीकरण विद्यार्थी (ALL Renewal STUDENTS) -	ADMISSION DATE
B.E/B.Pharma/B.sc Agri - VII Semester & BA LLB (VII & IX Semester) Final Year	01/08/2024
B.sc Ag (V Semester) Third Year	05/08/2024
BA/B.sc/B.Com/BBA/BCA (V Semester) Third Year	01/08/2024
BE/B.Pharma/Diploma Engineering /Poly (PT)- (V Semester) Third Year	05/08/2024
B.Ed/LLB/B.A LLB/MA/ M.sc/M.Com/MBA (III rd Semester) Second Year	12/08/2024
B.E/B.pharma/M.E/M.Pharma/MCA(2Year), BALLB, LLB,Diploma Engineering /Poly (PT)- (III rd Semester) Second Year	27/08/2024
Second Year Diploma Pharmacy (Yearly Programme)	01/08/2024

➤ समस्त विद्यार्थियों को छात्रवृत्ति आवेदन की NPCI करवाना अनिवार्य है।

➤ किसी भी प्रकार की असत्य एवं गलत जानकारी देने पर समस्त जिम्मेदारी विद्यार्थी की रहेगी।

Dr. A.P.J. ABDUL KALAM UNIVERSITY

प्रतिलिपी.....

1. माननीय कुलपति महोदय के अवलोकनार्थ
2. कुलसचिव महोदय के अवलोकनार्थ
3. उपकुलसचिव (प्रशासनिक) महोदय को अवलोकनार्थ एवं वि.वि. पोर्टल पर उपलब्ध करने बाबद।
4. समस्त प्राचार्य एवं विभागाध्यक्ष को सूचनार्थ
5. छात्रवृत्ति प्रभारी को सूचनार्थ एवं पालनार्थ
6. समस्त विद्यार्थी को सूचनार्थ एवं पालनार्थ
7. सूचना पटल हेतु

Dr. A.P.J. ABDUL KALAM UNIVERSITY

Dr. A.P.J. Abdul Kalam University

## Scholarship Documents List-2024-2025

### Renewal Students (SC/ST & OBC)

- 01 Student ID - (ABC)
- 02 Student Scholarship Proceeding Form ( Photocopy Center B-Block )
- 03 No Due's Form (III/V/VII Semester No Due's )
- 04 2 Set of self attested duly filled online submitted Scholarship form
- 05 3 Colored Photograph with Name & Date
- 06 Income certificate :-  
OBC: - SDO/SDM/Self (Income Limit Maximum 3, 00,000/-) (तीन लाख रुपये मात्र)
- 07 Caste Certificate:- SDO/SDM (ONLY Digital ), (मूल जाति प्रमाण पत्र)
- 08 Domicile Certificate:- SDO/SDM/Digital (मूल निवासी प्रमाण पत्र)
- 09 Previous Year Mark sheet's (Pass All Semester) Original Copy
- 10 Fees Receipts (both Semester Receipts)
- 11 Registration Form 2024-25 (Promoted Next Year)
- 12 Samgra ID Copy
- 13 Aadhar Card Copy
- 14 Bank Pass Book Copy with Latest Entry (Only Aadhar Linked Account)
- 15 E - KYC Form
- 16 Format 3 (B) for Bank Detail & Aadhar linked fully Computer typed (only for OBC)
- 17 Format (6) for Bank Detail & Aadhar linked fully Computer typed (Only for SC,ST)

नोट :- आवेदन फार्म के साथ संलग्न दस्तावेजों को इसी क्रम में जमा कर स्व प्रमाणित (Self Attested) लिखकर कर हस्ताक्षर (Signature) करें।

- किसी भी प्रकार की असत्य एवं गलत जानकारी देने पर समस्त जिम्मेदारी विद्यार्थी की रहेगी।
- छात्रवृत्ति आवेदन के लिये कियोस्क बैंक खाता मान्य नहीं है।

छात्रवृत्ति प्रसासि

Dr. A.P.J. ABDUL KALAM UNIVERSITY  
INDORE



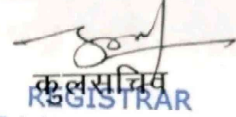
# Dr. A.P.J. Abdul Kalam University, Indore

AKU/2025/557

दिनांक: 17/04/2025

## सूचना

विश्वविद्यालय के समस्त प्राचार्यगण/डीन को सूचित किया जाता है कि विश्वविद्यालय में संचालित विभिन्न पाठ्यक्रमों जिनमें राष्ट्रीय शिक्षा नीति (NEP) 2020 (संलग्न) का क्रियान्वयन आगामी सत्र से होना है को बोर्ड ऑफ स्टडीज (BOS) में सम्मिलित किया जाना सुनिश्चित करें।



REGISTRAR  
Dr. A.P.J. Abdul Kalam University  
INDORE

### प्रतिलिपि:-

- (1) कुलगुरु महोदया
- (2) उप-कुलपति महोदय
- (3) डीन अकादमिक
- (4) परीक्षा नियंत्रक
- (5) समस्त प्राचार्य/डीन

200  
17/4/25

Thursday, April 17, 2025

To

The Registrar

Dr. A.P.J. Abdul Kalam University

Indore, Madhya Pradesh

**Subject: Implementation of NEP 2020 and NCrF-aligned Curriculum across University Programs**

Respected Sir,

In light of the recent educational reforms led by the Ministry of Education (MoE) and the University Grants Commission (UGC), and with a view toward ensuring compliance, accreditation, and global academic relevance, it is both necessary and timely for our University to initiate the full-scale implementation of the National Education Policy (NEP) 2020, including the National Higher Education Qualifications Framework (NHEQF), National Skills Qualifications Framework (NSQF), and the National Credit Framework (NCrF).

These frameworks provide a holistic, learner-centric structure for higher education institutions and are now directly linked to NAAC and NBA accreditation criteria. Institutions that proactively align their programs with NEP and its enabling frameworks stand to gain a significant advantage in the following areas:

- **Accreditation Readiness:** Adopting NEP and its associated frameworks is strongly encouraged by NAAC, and is considered evidence of quality initiatives and best practices.
- **Outcome-Based Education (OBE):** NHEQF facilitates learning outcomes that are mapped to level descriptors, critical for curriculum benchmarking and continuous quality improvement.
- **Flexibility and Multidisciplinarity:** NEP enables credit accumulation, mobility, exit options, and cross-disciplinary education—elements vital to student success and employability.
- **National and International Recognition:** NSQF and NCrF alignment ensure vertical and horizontal mobility across academic and skill-based programs, aligning us with global qualification standards.

I hereby propose the immediate initiation of the NEP 2020 implementation process across all constituent colleges, with special emphasis on:

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- College of Engineering
- College of Professional Studies
- And any other relevant academic departments under the University

To facilitate this transition, I am enclosing a sample NEP-aligned curriculum for B.Sc. (Computer Science), which includes:

- Semester-wise credit distribution with NSQF/NHEQF level alignment
- Multidisciplinary and skill-integrated course options
- Mapping to the NCrF credit system and modular structures
- Compliance visualization slides and a comparison matrix

This model may be used as a reference for curriculum design committees, Deans, and IQAC to adapt and revise all relevant programs across faculties.

You are requested to issue necessary instructions to the Principals and Deans of the respective colleges to initiate this process on a priority basis. The revised draft frameworks, once ready, may be submitted for review by the Academic Council and placed before the Board of Studies for formal adoption.

We are at a pivotal moment in shaping the future of higher education in our University. Let us seize this opportunity to lead from the front and ensure that our academic offerings meet the highest standards of quality, flexibility, and innovation.

Thank you for your cooperation in this transformative effort.

Yours sincerely,



Pro Vice Chancellor  
Dr. A.P.J. Abdul Kalam University  
Indore

**Enclosures:**

1. NEP/NHEQF/NSQF/NCrF-Aligned Sample Curriculum for B.Sc. (Computer Science)
2. Slide Deck: NEP Compliance Summary & Curriculum Reform Highlights
3. Infographic Matrix: NHEQF–NSQF–NCrF Alignment

## **Types of Courses in NEP 2020 Curriculum**

1. Major (Core Discipline) Courses
2. Minor (Complementary Discipline) Courses
3. Multidisciplinary
4. Interdisciplinary Courses
5. Open Electives (OE)
6. Generic Electives (GE)
7. Skills Enhancement Courses (SEC)
8. Vocational Skill Courses (VSC)
9. Ability Enhancement Courses (AEC)
10. Value-Added Courses (VAC)
11. Foundation Courses
12. Blended Learning courses
13. Indian Knowledge System (IKS)
14. Dissertation/ Capstone Project
15. Internship / Field-Based Courses

## Semester 2

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Data Structures & Algorithms	Major, SEC	4	5	5	Arrays, stacks, queues, trees, complexity
Electronic Devices & Circuits	Minor (E&C), Multidisciplinary	4	5	5	Diodes, transistors, amplifiers
Environmental Studies	VAC, Foundation	2	4	4	Ecosystems, biodiversity, sustainability
Critical Thinking & Ethics	AEC, Foundation	2	4	4	Reasoning, argumentation, ethical reasoning
Open Elective I: Intro to UI/UX	OE, VSC	3	4	4	Visual hierarchy, prototyping, design thinking

Total Credits This Semester: 15

## Semester 3

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Object-Oriented Programming	Major, SEC	4	5	5	Classes, objects, inheritance, polymorphism
DBMS (Database Systems)	Major, SEC	4	5	5	SQL, ER model, normalization, indexing
Signals & Systems	Minor (E&C), Interdisciplinary	4	5	5	Time/frequency domain, Laplace/Fourier
Financial Literacy	VAC, Foundation	2	4	4	Budgeting, banking, insurance, investments
Generic Elective I: Data Journalism	GE, Multidisciplinary	3	4	4	Data visualization, storytelling, ethics

Total Credits This Semester: 17

#### Semester 4

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Software Engineering	Major, Blended	4	6	6	SDLC, Agile, documentation, project phases
Computer Networks	Major	4	5	5	TCP/IP, OSI model, routing, IP addressing
Analog Communication Systems	Minor (E&C)	4	5	5	Modulation techniques, noise, SNR
Data Analysis using Python	SEC, Interdisciplinary	3	5	5	Pandas, NumPy, Matplotlib
Open Elective II: Multimedia Tools	OE, VSC	3	4	4	Photoshop, video editing, animation basics

Total Credits This Semester: 18

#### Semester 5

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Artificial Intelligence	Major, Interdisciplinary	4	6	6	Search algorithms, ML basics, AI ethics
Mobile App Development	SEC, VSC	4	5	5	Android/iOS, UI/UX, Firebase
Digital Communication	Minor (E&C)	4	5	5	PCM, digital modulation, data transmission
Internship / Industry Exposure	VSC, VAC	3	5	5	Field project, report, presentation
Community Engagement Project	VAC, Foundation	2	4	4	Social outreach, field study, reflection

Total Credits This Semester: 17

### Semester 6

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Cloud Computing & DevOps	Major, Blended	4	6	6	Cloud models, deployment, CI/CD
Internet of Things (IoT)	Interdisciplinary Minor (E&C)	4	5	5	Sensors, protocols, applications
E-Governance & Policy	GE, OE, Multidisciplinary	3	5	5	IT governance, policy, case studies
Career Readiness & Professional Skills	AEC, VAC	2	4	4	CV, interview, ethics, soft skills
Capstone Project / Dissertation	Capstone Project	6	6	6	Research/problem-solving, report, viva

Total Credits This Semester: 19

Grand Total Credits (All Semesters): 101

Validation and Alignment with UGC/NEP/NCrF Framework

**Degree Duration & Credit Requirement**

Category	3-Year UG Requirement	Your Curriculum	Status
Total Credits	120	120	<input checked="" type="checkbox"/>
Major (Core Discipline)	Minimum 60	60 credits	<input checked="" type="checkbox"/>
Minor Stream (E&C)	Minimum 24	24 credits	<input checked="" type="checkbox"/>
Multidisciplinary	9	9 credits	<input checked="" type="checkbox"/>
Ability Enhancement (AEC)	8	8 credits	<input checked="" type="checkbox"/>
Skill Enhancement (SEC)	9	9 credits	<input checked="" type="checkbox"/>
Value-Added Courses (VAC)	6-8	8 credits	<input checked="" type="checkbox"/>
Summer Internship / VSC	2-4	3 credits (Internship)	<input checked="" type="checkbox"/>
Capstone / Dissertation	Optional for 3-year	Included (6 credits)	<input checked="" type="checkbox"/>

Note: As per NEP/NCrF, Capstone is optional for a 3-year degree, but scheme includes it,

**Course Type Mapping from Your Curriculum (Validated)**

Course Type	Included?	Remarks
Major (Core)	<input checked="" type="checkbox"/>	Aligned to core CS subjects
Minor (E&C)	<input checked="" type="checkbox"/>	Provided 4 E&C courses across semesters
Multidisciplinary	<input checked="" type="checkbox"/>	Courses from Journalism, Policy, Psychology
Interdisciplinary	<input checked="" type="checkbox"/>	Data Analysis, AI, IoT, etc.
Open Electives (OE)	<input checked="" type="checkbox"/>	UI/UX, Multimedia Tools
Generic Electives (GE)	<input checked="" type="checkbox"/>	Data Journalism, E-Governance
Skill Enhancement (SEC)	<input checked="" type="checkbox"/>	Programming, DBMS, Mobile App Dev

Vocational Skill Courses (VSC)	<input checked="" type="checkbox"/>	Multimedia, Internship, App Dev
Ability Enhancement (AEC)	<input checked="" type="checkbox"/>	English, Ethics, Professional Readiness
Value-Added (VAC)	<input checked="" type="checkbox"/>	Financial Literacy, Indian Culture, etc.
Foundation Courses	<input checked="" type="checkbox"/>	Critical Thinking, Environmental Studies
Blended Learning	<input checked="" type="checkbox"/>	Software Engg, Cloud Computing
Indian Knowledge System (IKS)	<input checked="" type="checkbox"/>	Sem 1 course on Indian Culture
Dissertation/Capstone Project	<input checked="" type="checkbox"/>	Semester 6 project (optional for 3-yr, included by choice)

#### NSQF/NHEQF Mapping Justification

NSQF/NHEQF Level	Corresponds to	Your Curriculum
Level 4	Entry Level (12th pass)	Aligned per eligibility
Level 5	Year 1 UG	All Sem 1 & 2 courses set at this level
Level 6	Year 2 UG	Sem 3 & 4 core + interdisciplinary courses
Level 6-7	Year 3 UG	Sem 5 & 6 with advanced & applied learning

**Conclusion: The curriculum is fully compliant with UGC's NEP 2020-aligned framework, including credit structure, exit options, interdisciplinary integration, and learner-centric flexibility.**

**Comparison with UGC Table 2 (Credit Structure for 3-Year UG Degree)**

Category	UGC Requirement	proposed Curriculum	Status
Total Credits	120	120	<input checked="" type="checkbox"/>
Major (Core Discipline)	≥ 60	60	<input checked="" type="checkbox"/>
Minor Stream	≥ 24	24	<input checked="" type="checkbox"/>
Multidisciplinary Courses	≥ 9	9	<input checked="" type="checkbox"/>
Ability Enhancement Courses (AEC)	≥ 8	8	<input checked="" type="checkbox"/>
Skill Enhancement Courses (SEC)	≥ 9	9	<input checked="" type="checkbox"/>
Value-Added Courses (VAC)	6-8	8	<input checked="" type="checkbox"/>
Vocational Skill / Internship	2-4	3	<input checked="" type="checkbox"/>
Capstone Project / Dissertation	Optional	6 (included)	<input checked="" type="checkbox"/>

**Grand Total Summary**

- **Total Credits:** 120
  - **NSQF/NHEQF Mapping:** Level 5 (Year 1), Level 6 (Year 2), Level 6-7 (Year 3)
- Fully Compliant with NEP 2020, UGC CCFUP & NCrf Guidelines.

**NHEQF / NSQF Mapping (Level-Wise)**

Year	Semester	NSQF Level	NHEQF Level	Course Depth
1	I & II	Level 5	Level 5	Introductory theory + skill foundation
2	III & IV	Level 6	Level 6	Core and applied interdisciplinary focus
3	V & VI	Level 6/7	Level 6.5-7	Project, research, advanced applications

### Mapping to NHEQF / NSQF

Year	Semester	Level	Description
1st	I, II	NHEQF 4-5 / NSQF 4-5	Foundation, Communication, Basic CS, Math
2nd	III, IV	NHEQF 5 / NSQF 5	Core Programming, Data Structures, OS, Minor Begins
3rd	V, VI	NHEQF 6 / NSQF 6	Advanced Core, Minor, Research, Internship

### Summary Matrix of Course Types in Curriculum

Course Type	Included	Example Courses
Major (Core Discipline)	<input checked="" type="checkbox"/>	Programming, DBMS, Networks, AI
Minor (Electronics & Comm)	<input checked="" type="checkbox"/>	Digital Logic, Signals, Analogue & Digital Comm
Interdisciplinary Courses	<input checked="" type="checkbox"/>	IoT, Data Analysis, AI, Signals
Multidisciplinary Courses	<input checked="" type="checkbox"/>	Journalism, Design Thinking, Governance
Open Electives (OE)	<input checked="" type="checkbox"/>	UI/UX, Multimedia Tools
Generic Electives (GE)	<input checked="" type="checkbox"/>	Data Journalism, E-Governance
Skill Enhancement (SEC)	<input checked="" type="checkbox"/>	Programming, App Dev, DBMS
Vocational Skill (VSC)	<input checked="" type="checkbox"/>	Internship, Mobile App, Multimedia
Ability Enhancement (AEC)	<input checked="" type="checkbox"/>	English, Ethics, Employability Skills
Value-Added Courses (VAC)	<input checked="" type="checkbox"/>	Indian Culture, Financial Literacy
Foundation Courses	<input checked="" type="checkbox"/>	Communication, Environmental Studies
Blended Learning Courses	<input checked="" type="checkbox"/>	Software Engg, Cloud DevOps
Indian Knowledge System (IKS)	<input checked="" type="checkbox"/>	Indian Heritage & Knowledge
Dissertation/Capstone Project	<input checked="" type="checkbox"/>	Final year independent work

Course Type	NHEQF	NSQF	NCrF
Major (Core Discipline)	Lond 5	Lond 6	Level 6
Minor (Complementary Discipline)	Lond 6	Lond 6	Level 7
Multidisciplinary		Lond 6-7	Level 6
Interdisciplinary		Lond 6-7	Level 6
Open Elective (OE)		Lond 6-7	Level 7
Generic Elective (GE)		Lond 5	Level 6
Skill Enhancement Courses (SEC)	Lond 5		Level 5
Vocational Skill Courses (VSC)	Lond 6		Level 5
Ability Enhancement Courses (AEC)		Lond 6	Level 5
Value-Added Courses (VAC)		Lond 5	Level 5
Foundation Courses		Lond 6	Level 4
Indian Knowledge System (IKS)			Level 5
Dissertation/Con-			

सूचना पत्र क माध्यम स सूचित किया जाता ह कि एक राष्ट्र – एक चुनाव क बहुआयामी सकारात्मक परिणाम के परिपेक्ष में दिनांक 21 मार्च 2025 दिन शुक्रवार को विश्वविद्यालय के “I” ब्लॉक सेमिनार हॉल मे प्रातः 11:00 एक कार्यक्रम आयोजित किया जा रहा है। जिसमें आप सभी की उपस्थिति अनिवार्य है।

नोट:— 1. समस्त स्टॉफ को अपनी कोटी जकेट, बैग एवं पहचान-पत्र धारण करना अनिवार्य है।

2. सभी विद्यार्थी नियोजित यूनिफॉर्म एवं आई.डी. कार्ड के साथ ही उपस्थित हों।

प्रतिलिपि:—

- (1) निज सहायक कुलगुरु महोदया
- (2) उप-कुलपति महोदय
- (3) डीन अकादमिक
- (4) सी.ए.ओं
- (5) परीक्षा नियंत्रक
- (6) सी.एफ.ए.ओ.
- (7) समस्त प्राचार्य / डीन
- (8) सूचना पटल हेतु।

  
कुलसचिव  
**REGISTRAR**  
Dr. A.P.J. Abdul Kalam University  
INDORE

  
कुलसचिव



## सूचना

समस्त डीन/प्राचार्यगण

अध्यक्ष, म.प्र.नि.वि.वि.वि.आयोग, भोपाल दिनांक 527/म.प्र.नि.वि.वि.वि.आयोग /2025 दिनांक 04.03.2025 द्वारा दिनांक 28 मार्च 2025 को राजभवन भोपाल में आयोजित एक दिवसीय “Be a Karma Yogi” विषय पर सेमीनार के पूर्व दिनांक 13 मार्च 2025 तक विश्वविद्यालय स्तर पर “Brainstorming Workshop” का आयोजन किया जाना है। उपरोक्त निर्देशों के अनुक्रम में दिनांक 11.03.2025 (मंगलवार) दोप. 02:00 बजे विश्वविद्यालय के “I” Block सेमीनार हॉल में उक्त विषय पर एक दिवसीय कार्यशाला का आयोजन रखा गया है।

अतः समस्त डीन/प्राचार्य संलग्न सूची अनुसार शैक्षणिक स्टॉफ एवं विद्यार्थियों के साथ उक्त एक दिवसीय कार्यशाला में अपनी उपस्थिति सुनिश्चित करें।

- संलग्न:- 1. शैक्षणिक स्टॉफ सूची।  
2. विद्यार्थियों की सूची।

**प्रतिलिपि:-**

- (1) निज सचिव कुलगुरु महोदय
- (2) उप-कुलपति महोदय
- (3) डीन अकादमिक
- (4) परीक्षा नियंत्रक
- (5) सी.एफ.ए.ओ.
- (6) सी.ए.ओ.
- (7) समस्त प्राचार्य/डीन/अधिकारीगण
- (8) सूचना पटल हेतु।

  
कुलसचिव

**REGISTRAR**

**Dr. A.P.J. Abdul Kalam University  
INDORE**

## Dr. A.P.J. Abdul Kalam University, Indore

### List of Teaching Staff

S.No.	Name	Designation
1	Dr. Santosh pawar	Principal
2	Dr. M.S.Goutam	Principal
3	Dr.Prasant K. Shrivastav	Principal
4	Dr. J C Sharma	Principal
5	Dr. Rakesh Kumar Jatav	Principal
6	Dr. Revathi A gupta	Principal
7	Dr. Amit modi	Principal
8	Dr. Manisha Dughav	Principal
9	Dr. Ritesh Yadav	Principal
10	Dr. Amol kumbhare	HOD
11	Dr.Uttam kumar jha	HOD
12	Dr. Arun kumar yadav	HOD
13	Mrs. Priyanka Tantwar	HOD
14	Mrs. Aparna Tripathi	HOD
15	Mr. Yogesh Kelotra	HOD
16	Dr. Ragini bundela	Professor
17	Dr. Prerna Dighe Jain	Professor
18	Dr. Govind Soni	Professor
19	Dr. Arvind Paikrao	Professor
20	Dr. Saini	Professor
21	Dr. Abhishek agrwal	Associate Prof.
22	Dr. C P Singh	Associate Prof.
23	Dr. Akhil Kumar Dubey	Associate Prof.
24	Dr. Rakesh Gaur	Associate Prof.
25	Dr. Shweta Raghuwanshi	Associate Prof.
26	Dr. Anoop Sharma	Associate Prof.
27	Dr. Priyanka	Associate Prof.
28	Dr. Aparna Dixit	Associate Prof.
29	Mrs. Ranjana prsad	Assist Prof.
30	Mrs. Shivangni Rathore	Assist Prof.
31	Mrs. Nutan Mimrot	Assist Prof.
32	Dr. Anil Malviya	Assist Prof.
33	Mr.Yogendra singh yaduvanshi	Assist Prof.
34	Ms.himanshi solanki	Assist Prof.
35	Mrs. Ranjana Khandare	Assist Prof.
36	Ms. Archana Pachore	Assist Prof.
37	Mrs. Diksha	Assist Prof.

38	Dr. Prajakta Maskawade	Assist Prof.
39	Ms. Sneha Singh	Assist Prof.
40	Dr. Akhilesh gupta	Assist Prof.
41	Ms. Lata kanse	Assist Prof.
42	Ms.Pranjul	Assist Prof.
43	Ms.Anubha Jain	Assist Prof.
44	Mr. Vinay Mahajan	Assist Prof.
45	Ms. Chetna Malviya	Assist Prof.
46	Ms. Parul Singh Rajput	Assist Prof.
47	Ms.Mamta Agrwal	Assist Prof.
48	M. Dharmendra Yadav	Assist Prof.
49	Ms. Maya Bisen	Assist Prof.
50	Ms.Geetanjali Yogi	Assist Prof.
51	Mrs. Seema Shrivatav	Assist Prof.
52	Ms. Shikha Kumari	Assist Prof.
53	Dr. Om Prkash Choudhary	Assist Prof.
54	Dr. Mohan	Assist Prof.
55	DR. Ramchandra Dwivedi	Assist Prof.
56	Dr. Jyoti Prajapati	Assist Prof.



AKU/2025/557

दिनांक: 17/04/2025

सूचना

विश्वविद्यालय के समस्त प्राचार्यगण/डीन को सूचित किया जाता है कि विश्वविद्यालय में संचालित विभिन्न पाठ्यक्रमों जिनमें राष्ट्रीय शिक्षा नीति (NEP) 2020 (संलग्न) का क्रियान्वयन आगामी सत्र से होना है को बोर्ड ऑफ स्टडीज (BOS) में सम्मिलित किया जाना सुनिश्चित करें।

कुलसचिव  
REGISTRAR

Dr. A.P.J. Abdul Kalam University  
INDORE

**प्रतिलिपि:-**

- (1) कुलगुरु महोदय
- (2) उप-कुलपति महोदय
- (3) डीन अकादमिक
- (4) परीक्षा नियंत्रक
- (5) समस्त प्राचार्य/डीन

200  
A/4125

Thursday, April 17, 2025

To  
The Registrar  
Dr. A.P.J. Abdul Kalam University  
Indore, Madhya Pradesh

**Subject: Implementation of NEP 2020 and NCrF-aligned Curriculum across University Programs**

Respected Sir,

In light of the recent educational reforms led by the Ministry of Education (MoE) and the University Grants Commission (UGC), and with a view toward ensuring compliance, accreditation, and global academic relevance, it is both necessary and timely for our University to initiate the full-scale implementation of the National Education Policy (NEP) 2020, including the National Higher Education Qualifications Framework (NHEQF), National Skills Qualifications Framework (NSQF), and the National Credit Framework (NCrF).

These frameworks provide a holistic, learner-centric structure for higher education institutions and are now directly linked to NAAC and NBA accreditation criteria. Institutions that proactively align their programs with NEP and its enabling frameworks stand to gain a significant advantage in the following areas:

- **Accreditation Readiness:** Adopting NEP and its associated frameworks is strongly encouraged by NAAC, and is considered evidence of quality initiatives and best practices.
- **Outcome-Based Education (OBE):** NHEQF facilitates learning outcomes that are mapped to level descriptors, critical for curriculum benchmarking and continuous quality improvement.
- **Flexibility and Multidisciplinarity:** NEP enables credit accumulation, mobility, exit options, and cross-disciplinary education—elements vital to student success and employability.
- **National and International Recognition:** NSQF and NCrF alignment ensure vertical and horizontal mobility across academic and skill-based programs, aligning us with global qualification standards.

I hereby propose the immediate initiation of the NEP 2020 implementation process across all constituent colleges, with special emphasis on:

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- College of Engineering
- College of Professional Studies
- And any other relevant academic departments under the University

To facilitate this transition, I am enclosing a sample NEP-aligned curriculum for B.Sc. (Computer Science), which includes:

- Semester-wise credit distribution with NSQF/NHEQF level alignment
- Multidisciplinary and skill-integrated course options
- Mapping to the NCrF credit system and modular structures
- Compliance visualization slides and a comparison matrix

This model may be used as a reference for curriculum design committees, Deans, and IQAC to adapt and revise all relevant programs across faculties.

You are requested to issue necessary instructions to the Principals and Deans of the respective colleges to initiate this process on a priority basis. The revised draft frameworks, once ready, may be submitted for review by the Academic Council and placed before the Board of Studies for formal adoption.

We are at a pivotal moment in shaping the future of higher education in our University. Let us seize this opportunity to lead from the front and ensure that our academic offerings meet the highest standards of quality, flexibility, and innovation.

Thank you for your cooperation in this transformative effort.

Yours sincerely,



Pro Vice Chancellor  
Dr. A.P.J. Abdul Kalam University  
Indore

**Enclosures:**

1. NEP/NHEQF/NSQF/NCrF-Aligned Sample Curriculum for B.Sc. (Computer Science)
2. Slide Deck: NEP Compliance Summary & Curriculum Reform Highlights
3. Infographic Matrix: NHEQF–NSQF–NCrF Alignment

## **Types of Courses in NEP 2020 Curriculum**

1. Major (Core Discipline) Courses
2. Minor (Complementary Discipline) Courses
3. Multidisciplinary
4. Interdisciplinary Courses
5. Open Electives (OE)
6. Generic Electives (GE)
7. Skills Enhancement Courses (SEC)
8. Vocational Skill Courses (VSC)
9. Ability Enhancement Courses (AEC)
10. Value-Added Courses (VAC)
11. Foundation Courses
12. Blended Learning courses
13. Indian Knowledge System (IKS)
14. Dissertation/ Capstone Project
15. Internship / Field-Based Courses

## Semester 2

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Data Structures & Algorithms	Major, SEC	4	5	5	Arrays, stacks, queues, trees, complexity
Electronic Devices & Circuits	Minor (E&C), Multidisciplinary	4	5	5	Diodes, transistors, amplifiers
Environmental Studies	VAC, Foundation	2	4	4	Ecosystems, biodiversity, sustainability
Critical Thinking & Ethics	AEC, Foundation	2	4	4	Reasoning, argumentation, ethical reasoning
Open Elective I: Intro to UI/UX	OE, VSC	3	4	4	Visual hierarchy, prototyping, design thinking

Total Credits This Semester: 15

## Semester 3

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Object-Oriented Programming	Major, SEC	4	5	5	Classes, objects, inheritance, polymorphism
DBMS (Database Systems)	Major, SEC	4	5	5	SQL, ER model, normalization, indexing
Signals & Systems	Minor (E&C), Interdisciplinary	4	5	5	Time/frequency domain, Laplace/Fourier
Financial Literacy	VAC, Foundation	2	4	4	Budgeting, banking, insurance, investments
Generic Elective I: Data Journalism	GE, Multidisciplinary	3	4	4	Data visualization, storytelling, ethics

Total Credits This Semester: 17

#### Semester 4

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Software Engineering	Major, Blended	4	6	6	SDLC, Agile, documentation, project phases
Computer Networks	Major	4	5	5	TCP/IP, OSI model, routing, IP addressing
Analog Communication Systems	Minor (E&C)	4	5	5	Modulation techniques, noise, SNR
Data Analysis using Python	SEC, Interdisciplinary	3	5	5	Pandas, NumPy, Matplotlib
Open Elective II: Multimedia Tools	OE, VSC	3	4	4	Photoshop, video editing, animation basics

Total Credits This Semester: 18

#### Semester 5

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Artificial Intelligence	Major, Interdisciplinary	4	6	6	Search algorithms, ML basics, AI ethics
Mobile App Development	SEC, VSC	4	5	5	Android/iOS, UI/UX, Firebase
Digital Communication	Minor (E&C)	4	5	5	PCM, digital modulation, data transmission
Internship / Industry Exposure	VSC, VAC	3	5	5	Field project, report, presentation
Community Engagement Project	VAC, Foundation	2	4	4	Social outreach, field study, reflection

Total Credits This Semester: 17

## Semester 6

Course Title	Course Type(s)	Credits	NSQF Level	NHEQF Level	Modular Syllabus
Cloud Computing & DevOps	Major, Blended	4	6	6	Cloud models, deployment, CI/CD
Internet of Things (IoT)	Interdisciplinary Minor (E&C)	4	5	5	Sensors, protocols, applications
E-Governance & Policy	GE, OE, Multidisciplinary	3	5	5	IT governance, policy, case studies
Career Readiness & Professional Skills	AEC, VAC	2	4	4	CV, interview, ethics, soft skills
Capstone Project / Dissertation	Capstone Project	6	6	6	Research/problem-solving, report, viva

Total Credits This Semester: 19

**Grand Total Credits (All Semesters): 101**

Validation and Alignment with UGC/NEP/NCrF Framework

Degree Duration & Credit Requirement

Category	3-Year UG Requirement	Your Curriculum	Status
Total Credits	120	120	<input checked="" type="checkbox"/>
Major (Core Discipline)	Minimum 60	60 credits	<input checked="" type="checkbox"/>
Minor Stream (E&C)	Minimum 24	24 credits	<input checked="" type="checkbox"/>
Multidisciplinary	9	9 credits	<input checked="" type="checkbox"/>
Ability Enhancement (AEC)	8	8 credits	<input checked="" type="checkbox"/>
Skill Enhancement (SEC)	9	9 credits	<input checked="" type="checkbox"/>
Value-Added Courses (VAC)	6-8	8 credits	<input checked="" type="checkbox"/>
Summer Internship / VSC	2-4	3 credits (Internship)	<input checked="" type="checkbox"/>
Capstone / Dissertation	Optional for 3-year	Included (6 credits)	<input checked="" type="checkbox"/>

Note: As per NEP/NCrF, Capstone is optional for a 3-year degree, but scheme includes it,

Course Type Mapping from Your Curriculum (Validated)

Course Type	Included?	Remarks
Major (Core)	<input checked="" type="checkbox"/>	Aligned to core CS subjects
Minor (E&C)	<input checked="" type="checkbox"/>	Provided 4 E&C courses across semesters
Multidisciplinary	<input checked="" type="checkbox"/>	Courses from Journalism, Policy, Psychology
Interdisciplinary	<input checked="" type="checkbox"/>	Data Analysis, AI, IoT, etc.
Open Electives (OE)	<input checked="" type="checkbox"/>	UI/UX, Multimedia Tools
Generic Electives (GE)	<input checked="" type="checkbox"/>	Data Journalism, E-Governance
Skill Enhancement (SEC)	<input checked="" type="checkbox"/>	Programming, DBMS, Mobile App Dev

Vocational Skill Courses (VSC)	<input checked="" type="checkbox"/>	Multimedia, Internship, App Dev
Ability Enhancement (AEC)	<input checked="" type="checkbox"/>	English, Ethics, Professional Readiness
Value-Added (VAC)	<input checked="" type="checkbox"/>	Financial Literacy, Indian Culture, etc.
Foundation Courses	<input checked="" type="checkbox"/>	Critical Thinking, Environmental Studies
Blended Learning	<input checked="" type="checkbox"/>	Software Engg, Cloud Computing
Indian Knowledge System (IKS)	<input checked="" type="checkbox"/>	Sem 1 course on Indian Culture
Dissertation/Capstone Project	<input checked="" type="checkbox"/>	Semester 6 project (optional for 3-yr, included by choice)

#### NSQF/NHEQF Mapping Justification

NSQF/NHEQF Level	Corresponds to	Your Curriculum
Level 4	Entry Level (12th pass)	Aligned per eligibility
Level 5	Year 1 UG	All Sem 1 & 2 courses set at this level
Level 6	Year 2 UG	Sem 3 & 4 core + interdisciplinary courses
Level 6-7	Year 3 UG	Sem 5 & 6 with advanced & applied learning

**Conclusion:** The curriculum is fully compliant with UGC's NEP 2020-aligned framework, including credit structure, exit options, interdisciplinary integration, and learner-centric flexibility.

Comparison with UGC Table 2 (Credit Structure for 3-Year UG Degree)

Category	UGC Requirement	proposed Curriculum	Status
Total Credits	120	120	<input checked="" type="checkbox"/>
Major (Core Discipline)	≥ 60	60	<input checked="" type="checkbox"/>
Minor Stream	≥ 24	24	<input checked="" type="checkbox"/>
Multidisciplinary Courses	≥ 9	9	<input checked="" type="checkbox"/>
Ability Enhancement Courses (AEC)	≥ 8	8	<input checked="" type="checkbox"/>
Skill Enhancement Courses (SEC)	≥ 9	9	<input checked="" type="checkbox"/>
Value-Added Courses (VAC)	6-8	8	<input checked="" type="checkbox"/>
Vocational Skill / Internship	2-4	3	<input checked="" type="checkbox"/>
Capstone Project / Dissertation	Optional	6 (included)	<input checked="" type="checkbox"/>

**Grand Total Summary**

- **Total Credits:** 120
  - **NSQF/NHEQF Mapping:** Level 5 (Year 1), Level 6 (Year 2), Level 6-7 (Year 3)
- Fully Compliant with NEP 2020, UGC CCFUP & NCrF Guidelines.

**NHEQF / NSQF Mapping (Level-Wise)**

Year	Semester	NSQF Level	NHEQF Level	Course Depth
1	I & II	Level 5	Level 5	Introductory theory + skill foundation
2	III & IV	Level 6	Level 6	Core and applied interdisciplinary focus
3	V & VI	Level 6/7	Level 6.5-7	Project, research, advanced applications

### Mapping to NHEQF / NSQF

Year	Semester	Level	Description
1st	I, II	NHEQF 4-5 / NSQF 4-5	Foundation, Communication, Basic CS, Math
2nd	III, IV	NHEQF 5 / NSQF 5	Core Programming, Data Structures, OS, Minor Begins
3rd	V, VI	NHEQF 6 / NSQF 6	Advanced Core, Minor, Research, Internship

### Summary Matrix of Course Types in Curriculum

Course Type	Included	Example Courses
Major (Core Discipline)	<input checked="" type="checkbox"/>	Programming, DBMS, Networks, AI
Minor (Electronics & Comm)	<input checked="" type="checkbox"/>	Digital Logic, Signals, Analogue & Digital Comm
Interdisciplinary Courses	<input checked="" type="checkbox"/>	IoT, Data Analysis, AI, Signals
Multidisciplinary Courses	<input checked="" type="checkbox"/>	Journalism, Design Thinking, Governance
Open Electives (OE)	<input checked="" type="checkbox"/>	UI/UX, Multimedia Tools
Generic Electives (GE)	<input checked="" type="checkbox"/>	Data Journalism, E-Governance
Skill Enhancement (SEC)	<input checked="" type="checkbox"/>	Programming, App Dev, DBMS
Vocational Skill (VSC)	<input checked="" type="checkbox"/>	Internship, Mobile App, Multimedia
Ability Enhancement (AEC)	<input checked="" type="checkbox"/>	English, Ethics, Employability Skills
Value-Added Courses (VAC)	<input checked="" type="checkbox"/>	Indian Culture, Financial Literacy
Foundation Courses	<input checked="" type="checkbox"/>	Communication, Environmental Studies
Blended Learning Courses	<input checked="" type="checkbox"/>	Software Engg, Cloud DevOps
Indian Knowledge System (IKS)	<input checked="" type="checkbox"/>	Indian Heritage & Knowledge
Dissertation/Capstone Project	<input checked="" type="checkbox"/>	Final year independent work

Course Type	NHEQF	NSQF	NCrF
Major (Core Discipline)	Lond 5	Lond 6	Level 6
Minor (Complementary Discipline)	Lond 6	Lond 6	Level 7
Multidisciplinary		Lond 6-7	Level 6
Interdisciplinary		Lond 6-7	Level 6
Open Elective (OE)		Lond 6-7	Level 7
Generic Elective (GE)		Lond 5	Level 6
Skill Enhancement Courses (SEC)	Lond 5		Level 5
Vocational Skill Courses (VSC)	Lond 6		Level 5
Ability Enhancement Courses (AEC)		Lond 6	Level 5
Value-Added Courses (VAC)		Lond 5	Level 5
Foundation Courses		Lond 6	Level 4
Indian Knowledge System (IKS)			Level 5
Dissertation/Con-			