Syllabi Submission as approved by the Faculty meeting dated 02.04.2025, Board of Studies meeting dated 08.04.2025 and Academic Council meeting dated 08.05.2025

The syllabi of the following programmes as per the NEP structure is attached:

1) M.A./ M.Sc. in Population Studies (M.A./M.Sc.)
2) M.Sc. in Biostatistics and Demography (M.B.D.)
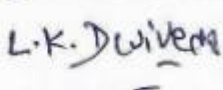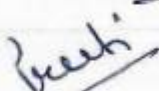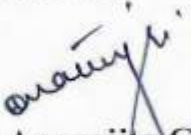3) M.Sc. in Survey Research and Data Analytics (M.S.D.)
4) M.A. in Population Studies (Distance Education)

In the Research Fieldwork, Review Paper and Project Work, respective faculty members need to summarize the weightage % marks and submit the grade sheets to the Academic Section.

S. No.	Postgraduate programmes	Coordinator	Signature
1.	Master of Arts/ Science (M.A./ M.Sc.) in Population Studies	Dr. Dipti Govil	
		Dr. Kunal Keshri	
2.	Master of Science (M.Sc.) in Bio-statistics and Demography	Prof. Nandita Saikia	
		Dr. Guru Vashishtha	
3.	Master of Science (M.Sc.) in Survey Research and Data Analytics	Prof. Laxmi Kant Dwivedi	L.K.Dwivedi
		Dr. Preeti Dhillon	
4.	Master of Arts (M.A.) in Population Studies (Distance Education)	Prof. Nandita Saikia	

The syllabus of the 4 Master programmes as approved by the Academic Council dated 08.05.2025 and the detailed revisions are attached herewith for your consideration please.

Prof. Aparajita Chattopadhayay
Chairperson, NEP PG Course Committee

Master of Arts/ Science in Population Studies (2025-2026)

Proposed Revisions to the M.A./M.Sc. Syllabus as per NEP for AC Approval (May 2025)

The following minor changes are made in the previous AC (December, 2024) approved structure and syllabi for approval in the BOS and AC, April, 2025:

- To accommodate the research component

  i. Papers from next semesters have been shifted to previous semesters.

  ii. The elective papers were **re-shuffled to align** with other courses.

  iii. Two elective papers were merged to reduce the overlapping: Gender, Health and Development/Gender Theories in Demography and Development

  iv. **Syllabi of C502 Research methodology – 1, C506 Research methodology – 2, C503 Gender Equity** and **Reproductive Health** and **E531 Gender, Health and Development** have been **revised**.

  v. The credit of Research Methdology-2 has been **reduced** to 2 as software and field work component has been shifted to R501 in (Semester 4).

  vi. Paper MSP C407 "Migration, Spatial Distribution and Urbanization" has been renamed as "Spatial Distribution, Migration and Urbanization"

  vii. Paper MSP C501 "Statistical Methods and Computer Application" **renamed** as "Introduction to Demographic and Statistical Software"

  viii. **Syllabus of C506 Research methodology - 2** and **C503 Gender Equity and Reproductive Health** has been **revised**.

  ix. **Research Papers: 22 credits** have been allocated to **research** in fourth semester and it includes Research field work, Review Paper, Project in Data Presentation and Dissertation.

x. **R501: Research Field Work:** Detailed guidelines have been prepared. It include qualitative and quantitative data collection, analysis, report writing and presentation.

xi. Implementation of qualitative software like NVivo and Atlas-Ti will be taught in R501 and orientation will be given in **C506 Research methodology -2**

xii. **R511: Review Paper:** Systematic Review, application of Meta-Analysis, Scoping review will be covered here. Guidelines have been prepared.

xiii. **R521: Project on data presentation:** This includes group research work on projects on presentation of data in effective manner. Data presentation tools will be taught here. Guidelines have been prepared.

Master of Science in Bio-Statistics and Demography (2025-2026)

Proposed Revision made in MBD syllabus as per NEP for AC (May 2025) Approval
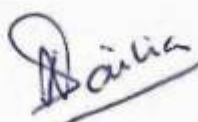
Proposed Revisions to the MBD Syllabus as per NEP for AC Approval (May 2025)

Following the approval of the MBD syllabus in the Academic Council (AC) meeting held in December 2024, the curriculum underwent further discussions in multiple faculty meetings and was formally presented in the Board of Studies (BOS) meeting in April 2025.

A key recommendation from the faculty meeting was to limit the total program credit to a maximum of **84–86 credits**. During the BOS meeting, it was proposed to merge the elective course MBD E512: Large-Scale Sample Survey (now recoded as MBD E501) with two other electives: Spatial Analytics (MBD E502) and Programming for Data Analysis with Python (MBD E503). The merged elective course would carry **2 credits** (1 lecture and 1 tutorial) and comprise **30 hours**.

Below is a summary of the changes approved in the previous AC meeting (December 2024) and the revisions presented and approved in the BOS meeting (April 2025).

Approved by previous AC (December, 2024) Course name with code	Proposed revision for AC approval (Presented and approved by BOS 2025)
MBD-C401: Introduction to Demography and History of Population Credit reduced from 3 to 2	Credit has been resumed to 3 as this is the core and foundation course on demography need more elaboration. One unit on population age-sex structure has been added (brought from Advance demographic methods) Course name has been renamed as "Introduction to Demography and Data Source" (Recommendation by concerned faculty also)
MBD-C406: Programming for Data Analysis with Python (The course has changed to core from elective with 2 credit and moved from 1st semester to 2nd semester)	Has been converted to elective course- E503 and merged with the elective group (E501-E503) in 2nd semester There are many software /programming packages are introduced in MBD therefore it was suggested to keep it as a elective for limiting the total credit up-to max 86 (one of the suggestion form previous BOS) Minor change in the syllabus.
MBD-C404: Sample Survey Design	Minor modifications in syllabus

MBD E501: Large-scale Sample Surveys	This elective has been shifted and merged with the group of elective (E501- E503).
MBD-C405: Basic Concepts and Application of Epidemiology **Credit reduced from 3 to 2**	Minor revision in syllabus by concerned faculty
MBD-C508: Advanced Demographic Methods **Credit reduced from 3 to 2**	Minor modification in syllabus 1st unit has been removed and shifted to the course MBD-C401: Introduction to Demography and Data source
MBD-C505: Advanced Sample Survey Design	Minor modifications in syllabus
MBD-C511: Demographic Models and Indirect Methods of Estimation **Credit reduced from 3 to 2**	**No change** in syllabus
MSD E502: Spatial Analytics **Credit reduced from 3 to 2**	**No change** in syllabus Keeping credit 2 with one practical comprises to 45 hours.
MBD-C507: Research Methodology MBD C11 - Research Methods in Epidemiology and Biostatistics has been renamed Research Methodology, and its **credits have been reduced from 4 to 2**	No change in the syllabus made
MBD-E535:Occupational Health Added and merged with Elective E531-535 in the 3rd Semester	Syllabus has been added
MBD-C510: *Data Management and Analysis in SAS* **Credit reduced from 3 to 2**	**No change** in syllabus Credit reduced from 3 to 2, Total hours will remain same 45 hours (included one practical).
MBD-C502:Methods in Biostatistics II	Minor modifications in syllabus
MBD-C509: Advanced Methods in Biostatistics	Minor modifications in syllabus

Master of Science in Survey Research and Data Analytics (2025-2026)

Proposed Revision made in MSD syllabus as per NEP for AC (May 2025) Approval

The **MSc in Survey Research and Data Analytics** programme has been restructured to align with the **National Credit Framework (NCrF)** for postgraduate education, as outlined in the **National Education Policy (NEP) 2020**. These changes were approved in the last academic council meeting (held on 20.12.2024) and are summarised in the following points-

- A minimum of **20 credits per semester, 40 credits per academic year**, and **80 credits over the two-year duration** (1200 hours) is mandated.
- Credit allocation is distributed across **Lectures (L), Tutorials (T),** and **Practical (P)** to ensure balanced academic engagement and skill development.
- The programme includes provisions for **multiple entry and exit** options: **Diploma** awarded after successful completion of the first year. **Master's Degree** conferred upon completion of the full two-year programme with Coursework and Research
- **Elective courses** are offered in different semesters, enabling academic customization and alignment with student interests and career objectives.
- Inclusion of **Indian Knowledge System** (IKS) in each year (upto 5% of total credit)

The committee made revisions with consultation of concern teachers. The revised syllabus was presented in faculty meetings and in Board of Studies (BOS) (on 8th April 2025). **All proposed revisions were approved by BoS (on 8th April 2025)** with one more recommendation to reduce credit of course MSD C403: from 3 to 2. After incorporating this, total credits of MSD programme is 85.

Highlighted revisions made in MSc Survey Research and Data Analytics syllabus

Course name with code as per syllabus 2024-25 (approved by Academic council 2023)	Approved by previous Academic Council meeting (December, 2024)	Proposed Revision (for approval in AC, scheduled on 8th May 2025)
MSD-C1: Mathematics and Computations	MSD-C401: Mathematics for Data Analytics Credit reduced from 3 to 2	**Removed** "Introduction to Computer Programming and software R" and shifted to the course MSD-C405 PROGRAMMING WITH R
MSD C2: Statistical Approaches and Avenues	MSD-C402: Statistical Methods and Approaches	Content on unit related to Inference is **reduced**. Logistic regression is added
MSD-C4: Sampling Methods-Basics	MSD C404: Sample Survey Design	Some advanced portion on sample size calculation and ratio and regression method based estimation **shifted** to course offered in the next semester

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MSD-E1.1: Programming With R	MSD-C405: Programming With R Changed from elective to Core Course (compulsory)	Introductory unit on R is **brought** from the MSD-C1 Credit reduced from 3 to 2 Total hours will remain same as 45 hours
MSD-E1.2: Analysis in STATA	MSD-C406: Analysis In STATA Core Course compulsory Changed from elective to Core Course (compulsory) Credit reduced from 3 to 2	**No change** in syllabus Credit reduced from 3 to 2, Total hours will remain same 45 hours.
MSD-C5: Ways and Means of Data Collection	MSD-C501: Priciples And Methods Of Data Collections	**Brought** 3 units related to Research from C11-Research, Publication and Ethics **Removed** software units (ANTHROPAC, Atlast Ti, CSPro), and group field work
MSD-C7: Sampling Methods-Advance	MSD C502: Advanced Sample Survey Design	Stata/R syllabus on sampling **shifted** to course offered in third semester "Analysis Of Complex Survey And Estimation"
MSD E2.2 Methods of Decomposition	Dropped and MSD-E504 Spatial Analytics is shifted at this place	**No change** in syllabus Keeping credit 3 with no septate credit for practical, Total hours will remain same 45 hours.
MSD E3.1: Health System, and Policies	MSD E511: Health System, and Policies **Credit reduced from 3 to 2**	**No change** in syllabus Keeping credit 3 with 45 hours.
MSD E3.2: Urbanization, Space and Planning	MSD E512: Urbanization, Space and Planning **Credit reduced from 3 to 2**	**Minor revision in syllabus** Keeping credit 3 with 45 hours.
MSD C9: Programming for Data Analytics In Python	MSD-C504: Programming for Data Analytics In Python Credit reduced from 3 to 2	**Minor changes** in syllabus Credit reduced from 3 to 2, Total hours will remain same 45 hours.

MSD C10: Predicted Analytics: Theory and Practice	MSD-C505: Predicted Analytics: Theory and Practice	**Revised** by adding **details** of each unit. **Credit reduced from 3 to 2 (30 hours)** One Unit on R is **removed** from this, as the course on R is core (compulsory course) course
MSD C11: Research, Ethics and Publication	MSD-C506: Ethics in Research and Publication hours reduced from 45 to 30	**Removed**: Introductory part of research and types of research and process and shifted to second semester in course: MSD-C501: Principles and Methods of Data Collections **Added** one unit Ethical consideration in data Collection
MSD C12: Artificial Intelligence And Machine Learning Applications	MSD-C507: Artificial Intelligence and Machine Learning Applications Credit reduced from 3 to 2	**No change** in syllabus Credit increased from 2 to 3, Total hours will remain same 45 hours.
MSD-C14: Analysis Of Complex Survey And Estimation	MSD-C510: Analysis of Complex Survey And Estimation	**Minor changes** in the syllabus
MSD-C16 Applied Multivariate Analysis	**Dropped**	MSD-C508: Applied Multivariate Analysis **Proposing to consider it back with 2 credit**
MSD E6.2: Bayesian And Small Area Estimation Methods	MSD-E522: Bayesian And Small Area Estimation Methods	**Minor changes** in the syllabus
MSD C Projection and Forecasting	MSD-521: Projection and Forecasting	Made the course **as core as** suggestion came in the **faculty meeting** (held on 2.04.2025) to increase Demographic Methods.
MSD E4.3 Demographic Models And Indirect Estimations	MSD-E532: Demographic Models And Indirect Estimations	Model life table is **added** in the unit on Demographic Models
MSD E5.1 Ageing and generational analysis	MSD E541: Ageing and generational analysis	**Dropped** as suggested in the **faculty meeting** (held on 2.04.2025).
MSD E5.3 Gender Analytics and Reproductive Health	MSD E543: Gender Analytics and Reproductive Health	**Dropped** as suggested in the **faculty meeting** (held on 2.04.2025).

MSD E5.2 Population, Environment and Sustainable Development	MSD E542 Population, Environment and Sustainable Development	Suggested to drop in **faculty meeting** (held on 2.04.2025). However, the committee decided to retain but shifted with other set of electives to reduce the total credits.
	Introduced Research components In fourth semester	Suggestion in faculty meeting to renamed **Dissertation** as Project on Data Analytics. Not considered this change