
DSCDM July - 2026

ASSIGNMENT BOOKLET

**Diploma in Smart City Development and Management
(DSCDM)**

Last date for submission:

30th April 2027

**School of Engineering and Technology
Indira Gandhi National Open University
Maidan Garhi, New Delhi - 110068**

Dear Student,

We advise you to go through your course material carefully and read all the units pertaining to assignments. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation which would **consist of one tutor-marked assignment** for each of MIO – 001, MIO – 002, MIO – 003, MIO – 004 and MIO – 005 of these courses. You need to score a minimum of 40 marks out of 100 marks in each of the assignments. **Submit the handwritten assignments at your Study Centre or your Regional Centre or Programme Coordinator, DSCDM, Room No.104, Block-C, SOET, IGNOU Campus, Maidan Garhi, New Delhi-68.**

Instructions for Formatting Your Assignments

Before attempting the assignment, please read the following instructions carefully.

1) On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

ENROLMENT NO:

NAME:

ADDRESS:
.....

COURSE CODE:

COURSE TITLE:

ASSIGNMENT NO.:

STUDY CENTRE:

DATE:

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only full-size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) Only handwritten assignments acceptable. No typed assignments
- 6) While solving problems, clearly indicate the question number along with the part being solved. Be precise. Recheck your work before submitting it.

Answer sheets received after the due date shall not be accepted.

We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.

We wish you good luck.

Assignment -4
(To be done after studying the course material)

Course Code: MIO – 004
Course Title: Smart Cities: Health, Education, Governance and Cyber Security
Assignment Code: MIO – 004/TMA/2026 July
Maximum Marks: 100

1. Attempt all questions. All questions carry equal marks.

Q.1	(a) Discuss the importance of Urban Planning. Explain different ways of Smart Cities Development.	5
	(b) Differentiate between traditional and smart buildings. How do you justify smart buildings are suitable for comfort life.	5
Q. 2	(a) What are the components in a security Camera? Also explain the uses of Security Camera.	5
	(b) Write any five advantages and disadvantages of smart building.	5
Q. 3	(a) What is the need of emerging technologies in smart health care systems? Explain.	5
	(b) How do you integrate command and control centers in Smart Cities?	5
Q. 4	(a) How do you classify Smart Health care system? Explain with Block diagram.	5
	(b) Differentiate between functional and nonfunctional requirements in a smart health care system.	5
Q. 5	(a) What is natural language processing (NLP)? List out the uses of NLP in Health care.	5
	(b) What is Smart Home? What are the advantages and disadvantages of Smart Home?	5
Q. 6	(a) What is electronic records management? How is it differing from traditional records management? Explain	5
	(b) What are smart health platforms and smart home services?	5
Q. 7	(a) What is Nanomedicine? How does Nanomedicine work?	5
	(b) What are the various initiatives of Government of India in Smart health care?	5

Q. 8	(a) What is smart education system? Explain the different medium used in smart education.	5
	(b) Discuss the various opportunities and challenges in online education.	5
Q. 9	(a) Define cyber space. Explain the common cybercrime techniques briefly.	5
	(b) What do you understand about Governance? Explain the difference between e-Governance and e-Government?	5
Q. 10	Write short notes on the following: (a) Cryptocurrency (b) Smart Factory (c) Artificial Intelligence (d) Machine Learning	10