



AMITY UNIVERSITY

MADHYA PRADESH

Established vide Government of Madhya Pradesh Act No. 27 of 2010

AMITY UNIVERSITY MADHYA PRADESH, GWALIOR

AMITY SCHOOL OF ARCHITECTURE AND PLANNING

PROGRAM – BACHELOR OF ARCHITECTURE

PROGRAMME OUTCOMES AND PROGRAMME SPECIFIC OUTCOMES

BACHELOR OF ARCHITECTURE, Academic Year – 2023-24

Programme Outcomes:

[PO.1]. Planning knowledge: Apply the knowledge of Design principles in the domain of Architecture, spatial planning, Site context, social infrastructure, physical infrastructure, Circulation, User friendly and Function of the space, to provide solutions to modern day activities and functions.

[PO.2]. Problem analysis: Identify, formulate, research literature, mapping and analyse complex design problems reaching substantiated conclusions using principles of Sustainability, Energy efficiency, and latest technologies and Materials.

[PO.3]. Design/development of solutions: Planning and design solutions for Architectural problems with appropriate processes that meet the specified needs with appropriate consideration for the public health and safety, and the economical, legal, cultural, societal, and environmental considerations.

[PO.4]. Conduct investigations of complex problems: Use research-based knowledge and research methods including Site Study, Literature Case Studies, Live Case studies, analysis and interpretation of data, and synthesis of the information to provide valid conclusions, inferences, recommendations, and Design solutions.

[PO.5]. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern planning and IT tools including AutoCAD, 2d & 3d presentations, Photoshop and 3d modeling & Rendering tools like 3Ds MAX, to complex urban and regional scenarios with an understanding of the limitations.

[PO.6]. The Architects and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues, and the consequent responsibilities relevant to the professional practice.

[PO.7]. Environment and Sustainability: Understand the impact of the Architectural planning and development solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

[PO.8]. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Development Authorities, Bye Laws etc.


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[PO.9]. Individual and teamwork: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

[PO.10]. Communication: Communicate effectively on complex designing & planning activities with the Structural consultants, Civil engineers, MEP Consultants, Material suppliers, Contractors, engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

[PO.11]. Project management and finance: Demonstrate knowledge and understanding of the Architectural and Design principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

[PO.12]. Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of latest Architectural design scenarios.

Programme Specific Outcomes:

PSO1: Will be able to plan, design, develop and implement efficient Architectural Design solutions for a given real life problem.

PSO 2: Will be able to apply knowledge of Designing tools and software for drafting, presentation, BIM extracting useful information from it and for performing design solutions and to make construction possible on site.

PSO 3: Will be able to Design and Execute any construction project. Plan, design, and drawings and publishing research reports in distinguished journals.

Note: - Correlation levels 1, 2 and 3 as defined below:

1: Slight (Low), 2: Moderate (Medium) and 3: Substantial (High)

If there is no correlation, put “-”

Correlation Matrix:

SEM		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
I	BAR 101	3	1	1	-	1	2	2	-	1	1	1	-	-	-	-
	BAR 102	2	1	1	-	1	2	1	2	1	-	-	-	-	-	-
	BAR 103	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-
	BAR 104	2	2	2	3	1	1	2	1	-	1	-	-	-	-	-
	BAR 105	2	2	2	3	2	1	3	3	-	-	-	-	-	-	-
	BAR 106	3	3	3	-	3	1	3	2	-	-	1	-	-	3	-
	EVS 142	3	3	3	3	3	3	3	3	3	3	-	-	3	3	3


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	BCU 141	3	3	3	3	2	3	2	3	3	3	1	-	3	3	3
	BSU 143	2	-	-	-	-	3	1	3	-	3	-	3	-	-	-
	FLU 144	2	-	-	-	-	3	1	3	3	3	-	3	-	-	-
II	BAR 201	3	1	1	-	1	1	2	1	-	-	-	-	-	-	-
	BAR 202	3	1	2	-	1	1	1	1	-	-	-	-	-	-	-
	BAR 203	2	1	1	-	1	1	1	1	-	-	3	-	-	-	-
	BAR 204	3	1	1	2	1	1	2	1	-	-	3	-	-	-	-
	BAR 206	3	3	2	2	3	2	2	3	-	-	-	-	-	-	-
	BAR 207	3	3	3	3	3	3	1	3	-	-	-	3	-	3	-
	EVS 242	3	3	3	3	3	3	3	3	3	-	1	3	3	3	3
	BCU 241	2	3	3	3	3	2	1	3	3	3	-	-	3	3	3
	BSU 243	2	-	-	-	-	3	-	3	-	3	-	3	-	-	-
	FLU 244	2	3	3	3	3	2	1	3	3	3	-	-	3	3	3
III	BAR 301	2	2	2	2	1	1	3	1	1	-	3	-	-	-	-
	BAR 302	3	1	2	-	1	1	3	-	1	-	-	-	-	-	-
	BAR 303	3	2	3	2	1	1	1	-	2	-	1	-	-	-	-
	BAR 304	2	2	2	-	1	2	1	-	-	-	-	-	-	-	-
	BAR 305	2	1	2	-	1	1	2	-	1	-	-	-	-	-	-
	BAR 306	3	3	3	3	3	2	2	-	-	-	1	-	-	3	-
	BAR 307	2	3	3	3	3	2	3	-	3	3	-	3	3	3	3
	BAR 360	2	3	3	3	3	2	2	3	2	3	1	3	3	3	3
	BCU 341	2	1	-	-	2	2	2	1	1	-	-	-	-	-	-
	BSU 343	2	1	2	-	2	2	3	2	3	-	1	-	-	-	-
FLU 344	3	3	3	3	2	2	3	3	3	3	-	2	-	-	-	
IV	BAR 401	3	1	1	1	2	2	1	1	-	-	1	2	-	-	-



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	BAR 402	2	1	1	-	1	2	1	2	1	-	-	-	-	-	-	
	BAR 403	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-	
	BAR 404	2	2	2	3	1	1	2	1	-	1	-	-	-	-	-	
	BAR 405	2	2	2	3	2	1	3	3	-	-	-	-	-	-	-	
	BAR 406	3	3	3	-	3	1	3	2	-	-	1	-	-	3	-	
	BAR 407	2	3	3	3	3	2	3	-	3	3	-	3	3	3	3	
	BCU 441	2	1	-	-	2	2	2	1	1	-	-	-	-	-	-	
	BSU 443	2	-	-	-	-	3	-	3	-	3	-	3	-	-	-	
	FLU 444	2	-	-	-	-	3	1	3	3	3	-	3	-	-	-	
V	BAR 501	3	1	1	1	2	2	1	1	-	-	1	2	-	-	-	
	BAR 502	2	1	1	-	1	2	1	2	1	-	-	-	-	-	-	
	BAR 503	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-	
	BAR 504	2	2	2	3	1	1	2	1	-	1	-	-	-	-	-	
	BAR 505	2	2	2	3	2	1	3	3	-	-	-	-	-	-	-	
	BAR 506	3	3	3	-	3	1	3	2	-	-	1	-	-	3	-	
	BAR 507	2	3	3	3	3	2	3	-	3	3	-	3	3	3	3	
	BAR 560	3	2	1	1	2	2	1	3	-	-	-	-	-	-	-	
	BCU 541	3	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
	BSU 543	2	-	-	-	-	3	-	3	-	3	-	3	-	-	-	
FLU 544	2	-	-	-	-	3	1	3	3	3	-	3	-	-	-		
VI	BAR 601	3	1	1	1	2	2	1	1	-	-	1	2	-	-	-	
	BAR 602	2	1	1	-	1	2	1	2	1	-	-	-	-	-	-	
	BAR 603	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-	
	BAR 604	2	2	2	3	1	1	2	1	-	1	-	-	-	-	-	



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	BAR 606	3	3	3	-	3	1	3	2	-	-	1	-	-	3	-
	BAR 607	2	3	3	3	3	2	3	-	3	3	-	3	3	3	3
	BAR 608	2	-	-	-	-	3	-	3	-	3	-	3	-	-	-
	BAR 609	3	2	1	1	2	2	1	3	-	-	-	-	-	-	-
	BAR 610	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-
	BCU 641	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
	BSU 643	2	-	-	-	-	3	-	3	-	3	-	3	-	-	-
	FLU 644	2	-	-	-	-	3	1	3	3	3	-	3	-	-	-
VII	BAR 701	3	1	1	1	2	2	1	1	-	-	1	2	-	-	-
	BAR 702	2	1	1	-	1	2	1	2	1	-	-	-	-	-	-
	BAR 703	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-
	BAR 704	2	2	2	3	1	1	2	1	-	1	-	-	-	-	-
	BAR 705	2	2	2	3	2	1	3	3	-	-	-	-	-	-	-
	BAR 760	2	3	3	3	3	2	3	-	3	3	-	3	3	3	3
	BCU 741	3	3	3	3	3	3	3	3	2	3	3	3	3	3	3
	BSU 743	2	-	-	-	-	3	-	3	-	3	-	3	-	-	-
	FLU 744	2	-	-	-	-	3	1	3	3	3	-	3	-	-	-
VIII	BAR 050	3	1	1	1	2	2	1	1	-	-	1	2	-	-	-
IX	BAR 901	3	1	1	1	2	2	1	1	-	-	1	2	-	-	-
	BAR 902	2	1	1	-	1	2	1	2	1	-	-	-	-	-	-
	BAR 903	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-
	BAR 904	2	2	2	3	1	1	2	1	-	1	-	-	-	-	-
	BAR 905	2	2	2	3	2	1	3	3	-	-	-	-	-	-	-


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	BAR 906	3	3	3	-	3	1	3	2	-	-	1	-	-	3	-
X	BAR 1001	3	1	1	-	1	2	2	-	1	1	1	-	-	-	-
	BAR 1002	2	1	1	-	1	2	1	2	1	-	-	-	-	-	-
	BAR 1003	3	1	3	3	1	2	1	2	1	-	1	-	-	-	-
	BAR 1004	2	2	2	3	1	1	2	1	-	1	-	-	-	-	-


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Course Handout
Course : Architectural Graphics Skill (Manual)-II
Course Code : BAR 204 / Credits : 03 / Session :2023-24 (Even Sem) / Class : BAR 1st Year
Faculty Name : AR. ADITYA BHATTACHARYA

Introduction:

The aim of this course is to develop the skill of representation in advanced drawing techniques and building documentation.

Course Outcome:

CO1: To involve students in a number of exercises that will help them develop the skill of representation in advance drawing techniques involving perspective and sciography.

CO2: To involve students in a number of exercises that will help to understand the measured drawing method to document buildings of architectural interest using simple and advance techniques of representation.

Syllabus:

UNIT I SCIOGRAPHY 10

Principles of shade and shadow – construction of shadow of simple geometrical shapes – construction of sciography on building, shadows of architectural elements.

UNIT II PERSPECTIVE: SCIENTIFIC METHOD 25

Characteristic of perspective drawing. Concepts and methods of perspective drawing. One point and two point perspective of simple geometrical shapes like cube, prism, combination of shapes, simple one, two and three-point perspective of building interiors and exteriors. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.

UNIT III PERSPECTIVE: SHORT CUT METHOD 15

Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.

UNIT IV MEASURED DRAWING: HISTORIC DOCUMENT STUDY 10


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Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.

UNIT V MEASURED DRAWING:

Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence or technology.

Student Learning Outcomes:

Students will learn to make and understand the skill of representation in advanced drawing techniques and building documentation.

Pedagogy for Course Delivery:

The course will be delivered by means of lectures, Assignments and through projects by students.

Prerequisite:

Background knowledge of introductory graphics skills is required for all the students.

Assessment/ Examination Scheme:

Theory %	Lab/ practical/studio %	End Term Examination
NILL	100 %	VV

Lab / Practical / Studio Assessment :

	Sessional work						End Term
Weightage %	50%						50%
Component drop down	A	PR	AS1	AS2	AS3	MSE	EE
Weightage %	05	05	10	10	10	10	50

Textbooks:

- IH. Morris, Geometrical Drawing for Art Students - Orient Longman, Madras, 2004.
- Francis Ching, Architectural Graphics, Van Nostrand Rein Hold Company, New York, 1964.

Reference books:

- George K.Stegman, Harry J.Stegman, Architectural Drafting Printed in USA by American Technical Society, 1966.
- C.Leslie Martin, Architectural Graphics, The Macmillan Company, New York, 1964

Brief Lecture Plan

Lecture	Topics	Mode of Delivery	Corresponding CO	Mode of Assessing CO
1.	Principles of shade and shadow – construction of shadow of simple geometrical shapes –	Lecture	CO1	Mid Term-1, Quiz &

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				End Sem Exam
2.	construction of sciography on building, shadows of architectural elements.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
3.	Principles of shade and shadow – construction of shadow of simple geometrical shapes –	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
4.	construction of sciography on building, shadows of architectural elements.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
5.	Principles of shade and shadow – construction of shadow of simple geometrical shapes –	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
6.	construction of sciography on building, shadows of architectural elements.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
7.	Principles of shade and shadow – construction of shadow of simple geometrical shapes –	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
8.	construction of sciography on building, shadows of architectural elements.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
9.	Principles of shade and shadow – construction of shadow of simple geometrical shapes –	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
10.	Characteristic of perspective drawing. Concepts and methods of perspective drawing.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
11.	Characteristic of perspective drawing. Concepts and methods of perspective drawing.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
12.	Characteristic of perspective drawing. Concepts and methods of perspective drawing.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam

13.	Characteristic of perspective drawing. Concepts and methods of perspective drawing.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
14.	Characteristic of perspective drawing. Concepts and methods of perspective drawing.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
15.	One point and two point perspective of simple geometrical shapes like cube, prism, combination of shapes, simple one, two and three-point perspective of building interiors and exteriors.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
16.	One point and two point perspective of simple geometrical shapes like cube, prism, combination of shapes, simple one, two and three-point perspective of building interiors and exteriors.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
17.	One point and two point perspective of simple geometrical shapes like cube, prism, combination of shapes, simple one, two and three-point perspective of building interiors and exteriors.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
18.	One point and two point perspective of simple geometrical shapes like cube, prism, combination of shapes, simple one, two and three-point perspective of building interiors and exteriors.	Lecture	CO1	Mid Term-1, Quiz & End Sem Exam
19.	Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
20.	Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
21.	Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
22.	Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam

23.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
24.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
25.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
26.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
27.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
28.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
29.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
30.	Introduction to short cut perspective method. Adding of figures, trees furniture etc., shade and shadows and applying rendering techniques.	Practical	CO1	Mid Term-1, Quiz & End Sem Exam
31.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam
32.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam
33.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam

34.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam
35.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam
36.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam
37.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam
38.	Combined study of historic document along with small building by using simple measuring tools like tapes, photograph etc.	Practical	CO2	Quiz & End Sem Exam
39.	Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence, or technology.	Practical	CO2	Quiz & End Sem Exam
40.	Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence, or technology.	Practical	CO2	Quiz & End Sem Exam
41.	Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence, or technology.	Practical	CO2	Quiz & End Sem Exam
42.	Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence, or technology.	Practical	CO2	Quiz & End Sem Exam
43.	Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence, or technology.	Practical	CO2	Quiz & End Sem Exam
44.	Documentation of a complete building of a special interest in terms of history, building construction, architectural excellence, or technology.	Practical	CO2	Quiz & End Sem Exam
45.	Documentation of a complete building of a special interest in terms of history, building	Practical	CO2	Quiz & End Sem Exam

	construction, architectural excellence, or technology.			
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A. Course Articulation Matrix (Mapping of COs with POs)

CO	Statement	CORRELATION WITH PROGRAMME OUTCOMES												CORRELATION WITH PROGRAMME SPECIFIC OUTCOMES			
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3	
Module	Statement																
Mod I	UNIT I SCIOGRAPHY 10	3	1	1	2	1	1	2	1	-	-	3	-	-	-	-	
Mod II	UNIT II PERSPECTIVE: SCIENTIFIC METHOD 25	3	2	1	2	1	1	2	1	-	-	3	-	-	-	-	
Mod III	UNIT III PERSPECTIVE: SHORT CUT METHOD 15	3	1	2	2	1	2	2	1	-	-	3	-	-	-	-	
Mod IV	UNIT IV MEASURED DRAWING: HISTORIC DOCUMENT STUDY 10	3	1	1	2	3	1	2	2	-	-	2	-	-	-	-	
Mod V	UNIT V MEASURED DRAWING:	3	1	2	2	3	1	2	1	-	-	3	-	-	-	-	

Amity School of Architecture and Planning Bachelor of Architecture MID-SEMESTER (SEM –II) 2021-22						
Class: B. Arch. II Semester						
Subject Name: WORKING DRAWING		Time: 2 Hours			Max. Marks: 10	
Levels of the questions as per Blooms Taxonomy	Remembering	Understanding	Applying	Analyzing	Evaluating	Creating
Quiz Questions Mapping			1, 2, 3	4,5,6		
Student will be able to CO1: Sciography and Perspective Some Sample Questions for VV are:						
CO Map	Question No.	Question				Marks
CO1	Q.1	Draw the plans, elevations and shadows (sciography) of the following shape: Square Block.				5
CO1	Q.2	Draw the plans, elevations and shadows (sciography) of the following shape: Rectangular Block.				5


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CO1	Q.3	Draw the plans, elevations and shadows (sciography) of the following shape: Cone.	5
CO1	Q.4	Draw the plans, elevations and shadows (sciography) of the following shape: Cylinder.	5
CO1	Q.5	Draw the plans, elevations and shadows (sciography) of the following shape: Square Base Pyramid.	5
CO1	Q.6	Draw the plans, elevations and shadows (sciography) of the following shape: Pentagonal Base Pyramid.	5

Attainments		Rubric
Level	3	As all (100%) of students secure more than 60% marks

Course outcome: Based on internal and external assessment the level of Course outcome attainment of the course ARCHITECTURAL GRAPHICS SKILL (MANUAL)-II Course code BAR 204 is level 3 for the academic year 2023-2024.


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