

# 工程管理本科专业培养方案

## 一、培养目标

5

1

2

3

4

5

## 二、毕业要求

1.1

1.2

1.3

1.4

1.5

2.1

2.2

2.3

3.1

3.2

3.3

3.4

**4.**

4.1

4.2

**5.**

**BIM**

5.1

5.2

**6.**

6.1

6.2

6.3

**7.**

7.1

7.2

**8.**

8.1

8.2

**9.**

9.1

9.2

**10.**

10.1

10.2

10.3

**11.**

11.1

11.2

11.3

12.

12.1

12.2

### 三、主干学科

### 四、专业核心课程

BIM 1

### 五、主要实践环节

BIM

### 六、学制、学位及毕业学分要求

4 3 6  
173.5 ( 5 )

### 七、毕业要求对培养目标的支撑矩阵

1

### 八、毕业要求达成矩阵

2

### 九、专业课程设置与教学进程计划表

3

### 十、课程学分、学时分布情况表

4

### 十一、辅修专业培养计划

## 十二、课程地图

1





(	1					2			3				4		5		6			7		8		9		10			11			12	
	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3	7.1	7.2	8.1	8.2	9.1	9.2	10.1	10.2	10.3	11.1	11.2	11.3	12.1	12.2
								L																			H	H					
								H										L			L												
BIM			M		M					M																							
																		H			L									L			
								L			M						L										H						H
																																	H
																																	M
B											H													H									
C		H						H																									
															H										H	H							
									L									H									H				L		L
								H																	H								
								H																	H								
1								H																M	H	H	H						
								H																M	H	H	H						
								H																M	H	H	H						
								H																M	H	H	H						
								H																M			H						
2								H																M	H	H	H						
BIM								H																M	H	H	H						
								H																M	H	H	H						
								H																M	H	H	H						
								H																M	H	H	H						
								H	H					M	M	M														H			
								H																M	H	H	H						
								H																M	H	H	H						
								H																M	H	H	H						
								H																				H		H			H
								H																						H			H
( )								H			H														H	H	H						H
								M			M													H	H	H							H

课程类别	课程编号	课程名称	学分	课内学时	学时分配		各学期周学时数								备注		
					讲课	实践	1	2	3	4	5	6	7	8			
							16	16	16	16	16	16					
	32110110	Ideology, Morality and Nomocracy	3	48	48		3										
	32110060	Compendium of Chinese Modern History	3	48	48			3									
	32110010	The Fundamental Tenets of Marxism	3	48	48				3								
	32110020	Introduction To Mao Zedong's Thought and Theoretical System of Socialism with Chinese Characteristics	2	32	32						4						
	32110120	Introduction to Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era	2	32	32						4						
	32110050	Current Situation and Policy	2	32	32		1—6						6				
	52110030	College Military Theory and National Security Education	2	32	32		2										
	52100020	College Psychological Health	1	16	16		2										8
	58100040	College Students innovation and entrepreneurship Foundation	2	32	24	8				2							4
	33100101	A1 Physical Education A1	1	36		36	2										4
	33100111	A2 Physical Education A2	1	36		36		2									4
	33100121	A3 Physical Education A3	1	36		36			2								4
	33100131	A4 Physical Education A4	1	36		36				2							4
			24	464	312	152	9	5	5	8	0	0	0	0	0	0	
	10100421	B1 Advanced MathematicsB1	4	64	64		4										
	10100431	B2 Advanced MathematicsB2	4	64	64			4									
	10100361	D College PhysicsD	4	64	64			4									
	1010048	B Linear Algebra B	2	32	32				2								
	10100391	B Probability and Statistics B	2	32	32				2								
	03164041	Introduction to Environmental Protection	2	32	32		2										
	06100341	1~2	8	128	128		4	4									1
	06100351	College English 1~2	8	128	128		4	4									
	06100351	2~3	8	128	128		4	4									
	06100361	College English 2~3	8	128	128		4	4									
	06100552	1~2	8	128	128		4	4									
	02100211	Python	3	48	24	24		3									
			29	464	440	24	10	15	4	0	0	0	0	0	0	0	
			10	1. B E G	2	2. F	2	3.	5.								
			3	2	4.	“ ”	1	C									
			10	160	160	0	0	2	2	0	2	4	0	0			

课程类别	课程编号	课程名称	学分	课内学时	学时分配		各学期周学时数								备注	
					讲课	实践	1	2	3	4	5	6	7	8		
							16	16	16	16	16	16				
	03110450	Introduction to project management	1	16	16		1									
	03120121	Civil Engineering Drawing	3	48	48		3									
	03120230	Management Science	2	32	32		2									
	03110031	1 Engineering Mechanics1	3	48	42	6		3								
	03110070	Civil Engineering Material	2	32	32			2								
	03110250	Building Construction	2.5	40	40				2.5							
	03120260	Economics	2	32	32				2							
	03110041	2 Engineering Mechanics2	2	32	32				2							
	03120261	Applied Statistics	2	32	32				2							
	03120520	★ Operations Research	2	32	32					2						
	03110330	1 Engineering Struture1	2	32	32					2						
			23.5	376	370	6	6	5	8.5	4	0	0	0	0		
	03170541	1 Engineering Graphics Identification 1	2	32	16	16		2								
	03110090	Engineering Surveying	3	48	32	16		3								
	03120530	Organizational Behavior	2	32	32				2							
	03100021	Ecological Construction and Environment	2	32	32				2							
	03170820	Basic of Accounting	2	32	32					2						
	03110300	Construction Laws and Regulations	2	32	32						2					
	03110530	2 Engineering Struture2	2	32	32						2					
	03120281	Soil Mechanics and Foundation Engineering	3	48	40	8						3				
	03170540	Construction Project Investment and Financing	2	32	32							2				
			8	128	112	16	0	2	0	2	4	0	0	0		
	03120310	Engineering Economics	2	32	32					2						
	03110121	Construction Technology	3	48	48						3					
	03120320	Engineering Cost Management	2	32	32						2					

课程类别	课程编号	课程名称	学分	课内学时	学时分配		各学期周学时数								备注	
					讲课	实践	1	2	3	4	5	6	7	8		
							16	16	16	16	16	16				
	03120330	Construction Contract Management	2	32	32							2				
	03110780	Construction Project Management	2.5	40	32	8						2.5				
	03110760	Construction Organization	1.5	24	24							1.5				
	03210591	Construction Project Measurement and Valuation	2	32	16	16						2				
			15	240	216	24	0	0	0	2	5	8	0	0		
	03170841	BIM 2 BIM Technology2	3	48	32	16					3					
	03170700	Prefabricated Construction Technology	2	32	32						2					
	03120580	Construction Bidding	2	32	32						2					
			7	112	96	16	0	0	0	0	3	4	0	0		
	03170351	Engineering Graphics Identification 2	3	48	32	16			3							
	03180301	Installation Cost	2	32	24	8					2					
	03180302	Municipal Engineering Cost	2	32	24	8					2					
			7	112	80	32	0	0	3	0	0	4	0	0		
	03120650	Urban planning	2	32	32				2							
	03170010	Architecture Facilities	2	32	32				2							
	03180471	★ International Construction Engineering Management		32	32				2							
	03180331	Engineering Project Evaluation	2	32	32				2							
	03170831	BIM 1 BIM Technology1	2	32	32				2							
	03170310	Development and Management of Real Estate	2	24	24				2							
	03170291	Construction Technology of Public Works	2	32	32					2						
	03180321	Engineering Financial Management	2	32	32					2						
	03110137	Construction Engineering Test	2	32	16	16					2					
	03180307	Development Frontier of Project Management	2	32	32				4-7							
									7							
			10	160	144	16	0	0	2	10	4	2	2	0		
			126.5	2104	1850	254	25	25	28.5	26	17	18	2	0	0	

1. 4 2.

课程类别	课程编号	实践教学项目	学分	学时	周数	学期	起止周	场所	备注
	52110040	Military Training	2	/	2	1	--		
	32110080	Practical Course for Ideological and Political Theory Course	2	/	2		--		
	58100020	B Training of Engineering B ( Labour Education )	1	/	1	2			
	10130031	C College Physics Experiment C	1	32	/	2			
	03150720	Surveying Engineering Practice	1	/	1	2	19--19		
	03180020	Understanding Practice	0.5	16	/	3	1--1		
	03150031	Experiment of Civil Engineering Material	0.5	16	/	2			2×8
	03150540	Design Exercise of Concrete Structure	1	/	1	3	18		
	03160041	1 Design Exercise of Engineering Structure 1	1	/	1	4	18--18		
	03180120	Special Construction practice	1	/	1	5	1--19		
	03160361	Course design of Construction Valuation	1	/	1	5	18--18		
	03180250	Project Management Simulation Practice	1	/	1	6	19--19		
	03150470	Practice of construction and Manufacturing technique	1	/	1	6	19--19		
	03160301	2 Design Exercise of Engineering Structure 2	1	/	1	7	1--1		
	03160421	BIM Design Exercise of BIM Technology Application	2	/	2	7	2--3		
	03150490	Design of Construction Organization	2	/	2	7	4--5		
	03150230	Didging Simulation Practice	1	/	1	7	6--6		
	03160141	Course Design of Project Contract Management	1	/	1	7	7--7		

课程类别	课程编号	实践教学项目	学分	学时	周数	学期	起止周	场所	备注
	03160104	Application of Project cost Management Software	2	/	2	7	2--3		
	03260391	Course Design of Construction Project Measurement and Valuation	2	/	2	7	4--5		
	03160151	Course design of Installation cost	1	/	1	7	6--6		
	03160171	Course design of Municipal Engineering Construction	1	/	1	7	7--7		
	03150370	Production Practice	6	/	12	7	8--19		
	03150390	Graduation Practice	1	/	2	8	1--2		
	03150190	( ) Graduation Design(Thesis)	14	/	14	8	3--16		
	03150400	The Second Class	5	/	/	/			0.5 0.5
			42+5	64	47	--	--	--	

序号	专业认证课程类别	标准要求	土木工程	
			学分合计	比例
1		15%	28	16.14%
2		30%	13	34.29%
			6.5	
			40	
			59.5	
3		20%	38	21.90%
4		15%	48	27.67%
			<b>173.5</b>	<b>100%</b>

序号	课程名称	学分
1	B1	4
2	B2	4
3	B	2
4	B	2
5	D	3
6	C	1
7		2
8		2
9		2
10	python	3
11	C	3
		<b>28</b>
		<b>16.14%</b>

类别	序号	课程名称	学分
	1		1
	2		3
	3		2
	4	1	3
	5		2
	6	2	2
			13
	1		2
	2		2.5
	3	1	2
			6.5
	1	1	8

		2					
	1					2	
	2					2	
	3					3	
	4					2.5	
	5					1.5	
	6					2	
	7					2	
						15	
	1			BIM	2	7	
	2		2			7	
	1				BIM	1	10
							59.5
							34.29%

12	2 Design Exercise of Engineering Structure 2	1
8	BIM Design Exercise of BIM Technology Application	6
9	Design of Construction Organization	
10	Didding Simulation Practice	
11	Course Design of Project Contract Management	
8	Application of Project cost Management Software	6
9	Course Design of Construction Project Measurement and Valuation	
10	Course design of Installation cost	
11	Course design of Municipal Engineering Construction	
16	Production Practice	6
17	Graduation Practice	1
18	( ) Graduation Design(Thesis)	14
		38
		21.90%

	1		2
	2		2
			4
	1		0.5
	2		0.5
	3		0.5
	4		3.5
			5
			<b>48</b>
			<b>27.67%</b>

学年	学期	课堂教学	考试	实践	入学、始业教育、 军事课	思想政治 理论 课实践	生产 劳动	毕业 设计 (论文)	毕业答辩、 教育	机动	合计
	1	16	1	0	2						19
	2	16	2	1		(4)					19
	3	16	1	2							19
	4	16	1	2							19
	5	16	1	2							19
	6	16	1	2							19
	7	8	0	11							19
	8	0	0	2				14	1	1	18
		104	7	22	2	(4)		14	1	1	151

课程类别	学分	学时	占课内学分 比例 (%)	占总学分 比例 (%)	说明
	53	928	41.90	30.55	1. 36.31% 2. 18.15% 3. 18.45% 4. 27.09% 5. 16.14% 6. 20.17%
	10	160	7.91	5.76	
	23.5	376	18.58	13.54	
	8	128	6.32	4.61	
	15	240	11.86	8.65	
	17	272	13.44	9.80	
	42+5	64 +47	/	27.09	
	173.5	2168 +47	100	100	

课程代码	课程名称	学分	周学时	总学时	建议开课学期	备注
03120121	Civil Engineering Drawing	3	3	48	1	
03120230	Management Science	2	2	32	1	
03110031	1 Engineering Mechanics I	3	3	48	2	
03110070	Civil Engineering Material	2	2	32	2	
03120250	Building Construction	2.5	2.5	40	3	
03120260	Economics	2	2	32	3	
03120520	Operations Research	2	2	32	4	
03110330	1 Engineering Structure I	2	2	32	4	
03120310	Engineering Economics	2	2	32	4	
03110121	Construction Technology	3	3	48	5	
03120320	Engineering Cost Management	2	2	32	5	
03120330	Construction Contract Management	2	2	32	6	
03110780	Construction Project Management	2.5	2	40	6	
03110760	Construction Organization	1.5	2	24	6	
03210591	Construction Project Measurement and Valuation	2	2	32	6	
03160141	Course Design of Project Contract Management	1	/	/	7	
03260391	Course Design of Construction Project Measurement and Valuation	2	/	/	7	
		36.5		584		



