

# 土木工程

## 一、培养目标

本专业旨在培养适应国家现代化建设需要，德智体全面发展，具有全面的人文素养和社会科学知识、坚实的自然科学知识、科学研究及工程技术基础和创新精神的土木工程领域的工程技术和科学研究人才。毕业生具有扎实的基础理论和较强的实践能力，具有国际视野，能够在有关土木工程的勘察、设计、施工、管理、教育、科研等部门从事技术、管理或科学研究工作。

## 二、基本规格要求

本专业学生要求掌握以下六项核心能力：

1. 土木工程专业科学与工程的基础理论与方法。
2. 土木工程的规划与设计能力。
3. 土木工程的施工与经济分析能力。
4. 土木工程的建设与管理能力。
5. 健康全面的人文素养和社会科学知识。
6. 科学研究的逻辑思维、实验与计算机应用能力。

## 三、培养特色

本专业以力学与材料学为主要支柱学科，注重培养学生具有扎实的基础知识与专业知识，具有先进的设计思想、工程经济观念与创新意识，突出对学生设计能力、实践能力与创新能力的培养。

## 四、学制、毕业基本要求及学位授予

1. 本科基本学制 4 年，弹性学习年限 3—6 年，按照学分管理制度管理。
2. 土木专业学生毕业最低学分数为 175 学分，其中各类别课程及环节要求学分数如下表：

| 课程类别 | 通识必修 | 学门核心 | 学类核心 | 专业核心 | 专业选修 | 通识选修 | 集中实践 | 合计  |
|------|------|------|------|------|------|------|------|-----|
| 学分数  | 27   | 24   | 34   | 23   | 27   | 8    | 32   | 175 |

3. 学生修满培养方案规定的必修课、选修课及有关环节，达到规定的最低毕业学分数，并修完规定必修但不记学分的所有课程和环节，德、智、体合格，即可毕业。满足国家学位授予相关文件的，授予工学学士学位。

## 五、课程设置及学分分布

### (一) 通识教育课程〔必修 27 + (6) 学分 + 选修 8 学分〕

通识教育课程包括必修和选修两部分。通识选修课程按《湖南大学通识选修（文化素质教育）课程方案》实施，通识必修课程如下：

| 编码      | 课程名称                 | 学分         | 备注 |
|---------|----------------------|------------|----|
| GE01101 | 毛泽东思想和中国特色社会主义理论体系概论 | 3+ (3)     |    |
| GE01039 | 思想道德修养与法律基础          | 1.5+ (1.5) |    |

续表

| 编码            | 课程名称          | 学分         | 备注 |
|---------------|---------------|------------|----|
| GE01100       | 形势与政策         | 0.5+ (1.5) |    |
| GE01102       | 中国近现代史纲要      | 2          |    |
| GE01103       | 马克思主义基本原理 (上) | 2          |    |
| GE01104       | 马克思主义基本原理 (下) | 2          |    |
| GE01012 (-15) | 大学英语          | 8          |    |
| GE01088       | 计算机基本能力测试     | 0.5        |    |
| GE01095       | 计算机导论与程序设计    | 2.5        |    |
| GE01107 (-13) | 心理素质与生涯发展     | 1          |    |
| GE01089 (-92) | 体育            | 4          |    |

**(二) 学门核心 (24 学分)**

| 编码           | 课程名称       | 学分 | 备注 |
|--------------|------------|----|----|
| GE03025      | 高等数学 A (1) | 5  |    |
| GE03026      | 高等数学 A (2) | 5  |    |
| GE03003      | 线性代数 A     | 3  |    |
| GE03004      | 概率论与数理统计 A | 3  |    |
| GE03005      | 普通物理 A (1) | 3  |    |
| GE03006      | 普通物理 A (2) | 3  |    |
| GE03007 (08) | 普通物理实验 A   | 2  |    |

**(三) 学类核心 (34 学分)**

| 编码      | 课程名称       | 学分 | 备注 |
|---------|------------|----|----|
| GE02006 | 普通化学       | 2  |    |
| CE04034 | 工程图学       | 4  |    |
| CE04035 | 计算机图形学     | 1  |    |
| GE02009 | 电工技术       | 2  |    |
| CE04003 | 理论力学 C     | 4  |    |
| CE04004 | 材料力学 D     | 4  |    |
| CE04005 | 结构力学 A (上) | 3  |    |
| CE04006 | 结构力学 A (下) | 3  |    |
| CE04036 | 土木工程概论     | 1  |    |
| CE04009 | 土木工程材料     | 3  |    |
| CE04037 | 工程测量       | 3  |    |
| CE04038 | 工程地质       | 2  |    |
| CE04039 | 工程项目经济与管理  | 2  |    |

**(四) 专业核心 (23 学分)**

土木工程专业核心课程如下：

| 编码      | 课程名称      | 学分 | 备注 |
|---------|-----------|----|----|
| CE05068 | 土力学       | 3  |    |
| CE05069 | 流体力学      | 3  |    |
| CE05060 | 混凝土结构设计原理 | 4  |    |
| CE05035 | 钢结构设计原理   | 3  |    |
| CE05036 | 基础工程      | 3  |    |
| CE05070 | 防灾工程学     | 3  |    |
| CE05071 | 土木工程试验与检测 | 2  |    |
| CE05087 | 弹性力学      | 2  |    |

### (五) 专业选修课 (27 学分)

土木工程专业各方向专业选修课程及要求如下：

| 编码      | 课程名称                     | 学分 | 备注    |      |
|---------|--------------------------|----|-------|------|
| CE06116 | 建筑学原理 <sup>(*)</sup>     | 3  | 18 学分 | 建筑工程 |
| CE06117 | 道路规划设计 <sup>(**)</sup>   | 3  |       |      |
| CE06118 | 桥梁工程 (上) <sup>(**)</sup> | 3  |       |      |
| CE06119 | 房屋结构设计                   | 3  |       |      |
| CE06120 | 建筑施工技术与管理                | 3  |       |      |
| CE06121 | 混合结构及装配式房屋结构设计           | 2  |       |      |
| CE06122 | 组合结构设计原理                 | 2  |       |      |
| CE06124 | 竹木结构设计原理                 | 2  |       |      |
| CE06125 | 大跨结构分析与设计                | 2  |       |      |
| CE06126 | 可靠度及风险分析                 | 2  |       |      |
| CE06127 | 结构优化设计                   | 2  |       |      |
| CE06111 | 多层及高层建筑结构设计              | 3  |       |      |
| CE06129 | 特种结构设计                   | 2  |       |      |
| CE06130 | 建筑消防与结构抗火设计              | 2  |       |      |
| CE06131 | 冲击与爆炸及其防护                | 2  |       |      |
| CE06133 | 结构非线性分析                  | 2  | 18 学分 | 桥梁工程 |
| CE06134 | 工程灾害分析与鉴定                | 2  |       |      |
| CE06116 | 建筑学原理 <sup>(*)</sup>     | 3  |       |      |
| CE06117 | 道路规划设计 <sup>(**)</sup>   | 3  |       |      |
| CE06118 | 桥梁工程 (上) <sup>(**)</sup> | 3  |       |      |
| CE06135 | 桥梁工程 (下)                 | 3  |       |      |
| CE06136 | 桥梁施工、维护技术与概预算            | 3  |       |      |
| CE06065 | 桥梁结构有限元分析                | 1  |       |      |
| CE06012 | 钢桥                       | 2  |       |      |
| CE06010 | 钢-混凝土组合结构桥梁              | 2  |       |      |
| CE06077 | 隧道工程                     | 2  |       |      |
| CE06061 | 桥梁概念设计与美学                | 2  |       |      |
| CE06137 | 轨道桥梁                     | 2  |       |      |

续表

| 编码      | 课程名称                     | 学分 | 备注           |      |
|---------|--------------------------|----|--------------|------|
| CE06116 | 建筑学原理 <sup>(*)</sup>     | 3  | 18 学分        | 岩土工程 |
| CE06117 | 道路规划设计 <sup>(**)</sup>   | 3  |              |      |
| CE06118 | 桥梁工程 (上) <sup>(**)</sup> | 3  |              |      |
| CE06077 | 隧道工程                     | 2  |              |      |
| CE06138 | 地下结构设计                   | 2  |              |      |
| CE06139 | 基础工程 II                  | 2  |              |      |
| CE06103 | 岩石力学                     | 2  |              |      |
| CE06140 | 边坡工程                     | 2  |              |      |
| CE06141 | 地基处理                     | 2  |              |      |
| CE06142 | 岩土工程勘察                   | 2  |              |      |
| CE06144 | 地下空间开发与利用                | 2  |              |      |
| CE06116 | 建筑学原理 <sup>(*)</sup>     | 3  | 18 学分        | 道路工程 |
| CE06117 | 道路规划设计 <sup>(**)</sup>   | 3  |              |      |
| CE06118 | 桥梁工程 (上) <sup>(**)</sup> | 3  |              |      |
| CE06115 | 路基路面工程                   | 3  |              |      |
| CE06100 | 交通工程                     | 3  |              |      |
| CE06114 | 道路施工组织与概预算               | 2  |              |      |
| CE06052 | 沥青与沥青混合料                 | 2  |              |      |
| CE06169 | 交通规划原理                   | 2  |              |      |
| CE06045 | 交通控制与管理                  | 2  |              |      |
| CE06029 | 机场规划与设计                  | 2  |              |      |
| CE06025 | 轨道交通概论                   | 2  |              |      |
| CE06116 | 建筑学原理                    | 3  | 方向拓展<br>9 学分 |      |
| CE06119 | 房屋结构设计                   | 3  |              |      |
| CE06120 | 建筑施工技术与管理                | 3  |              |      |
| CE06121 | 混合结构及装配式房屋结构设计           | 2  |              |      |
| CE06118 | 桥梁工程 (上)                 | 3  |              |      |
| CE06135 | 桥梁工程 (下)                 | 3  |              |      |
| CE06136 | 桥梁施工、维护技术与概预算            | 3  |              |      |
| CE06117 | 道路规划设计                   | 3  |              |      |
| CE06115 | 路基路面工程                   | 3  |              |      |
| CE06100 | 交通工程                     | 3  |              |      |
| CE06077 | 隧道工程                     | 2  |              |      |
| CE06138 | 地下结构设计                   | 2  |              |      |
| CE06140 | 边坡工程                     | 2  |              |      |

续表

| 编码      | 课程名称        | 学分 | 备注           |
|---------|-------------|----|--------------|
| CE06139 | 基础工程 II     | 2  | 方向拓展<br>9 学分 |
| CE06149 | 管理学原理       | 2  |              |
| CE06146 | 投融资经济       | 2  |              |
| CE06145 | 建设法规        | 2  |              |
| CE06150 | 复变函数 B      | 2  |              |
| CE06122 | 组合结构设计原理    | 2  |              |
| CE06124 | 竹木结构设计原理    | 2  |              |
| CE06125 | 大跨结构分析与设计   | 2  |              |
| CE06126 | 可靠度及风险分析    | 2  |              |
| CE06127 | 结构优化设计      | 2  |              |
| CE06111 | 多层及高层建筑结构设计 | 3  |              |
| CE06129 | 特种结构设计      | 2  |              |
| CE06065 | 桥梁结构有限元分析   | 1  |              |
| CE06012 | 钢桥          | 2  |              |
| CE06010 | 钢-混凝土组合结构桥梁 | 2  |              |
| CE06061 | 桥梁概念设计与美学   | 2  |              |
| CE06137 | 轨道桥梁        | 2  |              |
| CE06103 | 岩石力学        | 2  |              |
| CE06141 | 地基处理        | 2  |              |
| CE06142 | 岩土工程勘察      | 2  |              |
| CE06143 | 环境岩土工程      | 2  |              |
| CE06144 | 地下空间开发与利用   | 2  |              |
| CE06114 | 道路施工组织与概预算  | 2  |              |
| CE06052 | 沥青与沥青混合料    | 2  |              |
| CE06169 | 交通规划原理      | 2  |              |
| CE06045 | 交通控制与管理     | 2  |              |
| CE06029 | 机场规划与设计     | 2  |              |
| CE06025 | 轨道交通概论      | 2  |              |
| CE06130 | 建筑消防与结构抗火设计 | 2  |              |
| CE06131 | 冲击与爆炸及其防护   | 2  |              |
| CE06133 | 结构非线性分析     | 2  |              |
| CE06134 | 工程灾害分析与鉴定   | 2  |              |
| CE06148 | 土木工程发展与展望   | 1  |              |
| CE06147 | 土木工程创新研究    | 1  |              |

注：1) 标(\*)为三选一。

2) 在读期间参加学科竞赛、SIT、公开发表学术论文、获专利或软件著作权以及其他经学院教学指导委员会认定的科技实践活动或成果，可替代专业选修课，但最高不超过 3 个学分。

**(六) 集中实践 (32 学分)**

土木工程专业集中实践环节包括专业集中实践和方向集中实践，具体实践环节如下：

| 编码      | 课程名称                       | 学分 | 备注     |
|---------|----------------------------|----|--------|
| GE09030 | 中文写作实训                     | 1  | 专业集中实践 |
| CE10008 | 认识实习                       | 1  |        |
| CE10052 | 工程地质实习                     | 1  |        |
| CE10035 | 测量实习                       | 2  |        |
| CE10061 | 生产实习                       | 2  |        |
| CE10072 | 毕业实习                       | 1  |        |
| CE10029 | 混凝土结构设计原理课程设计              | 1  |        |
| CE10038 | 钢结构设计原理课程设计                | 1  |        |
| CE10024 | 基础工程课程设计                   | 1  |        |
| CE10073 | 道路规划设计课程设计 <sup>(*)</sup>  | 2  |        |
| CE10074 | 桥梁工程（上）课程设计 <sup>(*)</sup> | 2  |        |
| CE10075 | 建筑学原理课程设计 <sup>(*)</sup>   | 2  |        |
| CE10076 | 房屋结构设计课程设计                 | 2  |        |
| CE10077 | 建筑施工技术与设计课程设计              | 2  |        |
| CE10078 | 多层及高层建筑结构设计                | 1  |        |
| CE10079 | 桥梁工程（下）课程设计                | 2  | 桥梁工程   |
| CE10080 | 桥梁施工、维护技术与概预算课程设计          | 1  |        |
| CE10081 | 道路规划设计课程设计                 | 2  |        |
| CE10082 | 路基路面工程课程设计                 | 2  | 道路工程   |
| CE10018 | 交通工程课程设计                   | 1  |        |
| CE10083 | 桥梁工程（上）课程设计                | 2  |        |
| CE10084 | 隧道工程课程设计                   | 1  | 岩土工程   |
| CE10085 | 地下结构设计课程设计                 | 1  |        |
| CE10025 | 基础工程Ⅱ课程设计                  | 1  |        |
| CE10044 | 地基处理课程设计                   | 1  |        |
| CE10086 | 边坡工程课程设计                   | 1  |        |
| CE10071 | 毕业论文（设计）                   | 14 |        |

注：1) 标<sup>(\*)</sup>的课程三选一。

2) “混凝土结构设计原理”“钢结构设计原理”由于涉及行业规范，具体内容在开课时可做必要调整。

3) 学生必须参加专业学术讲座 5 次以上，学生自主参加累计不少于 30 工作日的与专业有关的工程实践或勤工俭学。

4) 每门课修课人数少于 15 人原则上停开。

**六、课程责任教师一览表**

## 1. 建筑工程方向

| 序号 | 姓名  | 职称  | 学历学位 | 专业特长        | 课程<br>(专业核心、专业选修、通识选修)                      |
|----|-----|-----|------|-------------|---|
| 1  | 易伟建 | 教授  | 博士   | 结构工程        | 混凝土结构设计原理、房屋结构设计                            |
| 2  | 方志  | 教授  | 博士   | 结构工程        | 混凝土结构设计原理, 预应力及预制装配混凝土结构原理与设计, 房屋结构设计, 桥梁工程 |
| 3  | 吴方伯 | 教授  | 硕士   | 结构工程 (防灾减灾) | 预应力及预制装配混凝土结构原理与设计, 房屋结构设计, 防灾工程学           |
| 4  | 汪梦甫 | 教授  | 博士   | 结构工程        | 结构力学, 房屋结构设计, 可靠度及风险分析                      |
| 5  | 舒兴平 | 教授  | 博士   | 结构工程        | 钢结构设计原理, 房屋结构设计                             |
| 6  | 贺拥军 | 教授  | 博士   | 结构工程        | 钢结构设计原理, 大跨结构分析与设计                          |
| 7  | 霍静思 | 教授  | 博士   | 结构工程        | 钢结构设计原理, 建筑消防与结构抗火设计                        |
| 8  | 许斌  | 教授  | 博士   | 结构工程 (防灾减灾) | 防灾工程学, 可靠度及风险分析, 土木工程试验与检测                  |
| 9  | 李正农 | 教授  | 博士   | 结构工程 (防灾减灾) | 防灾工程学, 可靠度及风险分析, 特种结构设计                     |
| 10 | 郭玉荣 | 教授  | 博士   | 结构工程 (防灾减灾) | 防灾工程学, 预应力及预制装配混凝土结构原理与设计, 冲击与爆炸及其防护        |
| 11 | 刘桂秋 | 教授  | 博士   | 结构工程        | 砌体结构, 房屋结构设计                                |
| 12 | 廖莎  | 副教授 | 博士   | 结构工程        | 混凝土结构设计原理, 房屋结构设计                           |
| 13 | 唐昌辉 | 副教授 | 博士   | 结构工程        | 混凝土结构设计原理, 房屋结构设计, 土木工程试验与检测                |
| 14 | 张望喜 | 副教授 | 博士   | 结构工程        | 混凝土结构设计原理, 房屋结构设计, 土木工程试验与检测                |
| 15 | 杜运兴 | 副教授 | 博士   | 结构工程        | 钢结构设计原理, 房屋结构设计                             |
| 16 | 刘霞  | 副教授 | 博士   | 结构工程        | 混凝土结构设计原理, 房屋结构设计, 结构优化设计                   |
| 17 | 单波  | 副教授 | 博士   | 结构工程        | 建筑学原理, 竹木结构设计原理, 土木工程材料                     |
| 18 | 黄靓  | 副教授 | 博士   | 结构工程        | 混凝土结构设计原理, 房屋结构设计                           |
| 19 | 尹华伟 | 副教授 | 博士   | 结构工程        | 混凝土结构设计原理, 房屋结构设计, 土木工程试验与检测                |
| 20 | 黄远  | 副教授 | 博士   | 结构工程        | 混凝土结构设计原理, 组合结构, 土木工程试验与检测                  |
| 21 | 周云  | 副教授 | 博士   | 结构工程        | 钢结构设计原理, 混凝土结构设计原理, 房屋结构设计, 土木工程试验与检测、      |
| 22 | 王海东 | 副教授 | 博士   | 结构工程 (防灾减灾) | 防灾工程学, 特种结构设计, 可靠度及风险分析                     |
| 23 | 熊辉  | 副教授 | 博士   | 结构工程 (防灾减灾) | 防灾工程学, 土木工程试验与检测                            |
| 24 | 文学章 | 副教授 | 博士   | 结构工程 (防灾减灾) | 防灾工程学, 计算机辅助设计, 结构优化设计                      |

续表

| 序号 | 姓名  | 职称   | 学历学位 | 专业特长       | 课程<br>(专业核心、专业选修、通识选修)                |
|----|-----|------|------|------------|---------------------------------------|
| 25 | 涂文革 | 副教授  | 博士   | 结构工程(防灾减灾) | 防灾工程学, 特种结构                           |
| 26 | 刘艳芝 | 助理教授 | 博士   | 结构工程       | 钢结构设计原理, 组合结构, 冲击与爆炸及其防护              |
| 27 | 马高  | 助理教授 | 博士   | 结构工程       | 混凝土结构设计原理, 预应力及预制装配混凝土结构原理与设计, 房屋结构设计 |
| 28 | 李文贵 | 助理教授 | 博士   | 结构工程       | 混凝土结构设计原理、土木工程材料、土木工程试验与检测            |
| 29 | 杨鸥  | 助理教授 | 博士   | 结构工程(防灾减灾) | 防灾工程学, 土木工程试验与检测, 冲击与爆炸及其防护           |

注: 部分老师也承担专业力学基础课教学

## 2. 道路工程方向

| 序号 | 姓名  | 职称   | 学历学位 | 专业特长   | 课程<br>(专业核心、专业选修、通识选修) |
|----|-----|------|------|--|------------------------|
| 1  | 曾梦澜 | 教授   | 博士   | 道路工程, 道路建筑材料, 沥青与沥青混合料, 路面结构分析与设计                | 沥青与沥青混合料               |
| 2  | 黄立葵 | 教授   | 硕士   | 路面结构和路面材料, 路面性能和养护管理, 不确定性理论及其工程应用, 道路计算机辅助设计和管理 | 路基路面工程                 |
| 3  | 颜可珍 | 教授   | 博士   | 路基路面结构设计理论、方法及破损机理研究, 特殊土路基修筑及稳定技术, 土动力学及地基处理    | 路基路面工程, 轨道交通概论         |
| 4  | 李嘉  | 教授   | 硕士   | 路基路面新材料、新技术研究, 道路交通仿真技术, 道路通行能力研究, 交通影响分析        | 路基路面工程, 道路交通规划         |
| 5  | 李硕  | 教授   | 博士   | 交通运输规划与管理, 交通工程及其设施改善, 智能交通系统                    | 交通工程, 道路交通规划           |
| 6  | 王昌衡 | 副教授  | 硕士   | 路基路面工程, 路用材料, 道路工程专家系统, 道路勘测设计                   | 道路性能评价与养护              |
| 7  | 廖敏志 | 副教授  | 博士   | 沥青流变行为, 高性能与再生沥青混凝土材料, 路面管理系统, 永久性路面设计           | 轨道交通概论, 机场规划与设计        |
| 8  | 张恒龙 | 助理教授 | 博士   | 沥青基道路建筑材料, 新型路面材料改性与开发, 沥青材料的老化与再生               | 路基路面工程, 沥青与沥青混合料       |
| 9  | 杜攀峰 | 助理教授 | 硕士   | 道路勘测设计, 道路通行能力研究, 交通影响分析                         | 道路规划设计                 |
| 10 | 李洁  | 助理教授 | 博士   | 道路勘测设计, 交通运输规划与管理                                | 道路规划设计                 |
| 11 | 李群  | 助理教授 | 硕士   | 路基路面结构设计理论, 道路工程与经济管理                            | 路基路面工程, 机场规划与设计        |

## 3. 桥梁工程方向

| 序号 | 姓名  | 职称   | 学历学位 | 专业特长                | 课程<br>(专业核心、专业选修、通识选修)        |
|----|-----|------|------|---------------------|-------------------------------|
| 1  | 陈政清 | 教授   | 博士   | 桥梁结构风工程             | 桥梁抗震与抗风                       |
| 2  | 邵旭东 | 教授   | 博士   | 新型桥梁结构理论与应用         | 桥梁工程(下),<br>桥梁概念设计与美学         |
| 3  | 方志  | 教授   | 博士   | 复合材料在桥梁结构工程中的应用施工控制 | 混凝土结构设计原理, 预应力与预制装配混凝土结构原理与设计 |
| 4  | 邓露  | 教授   | 博士   | 桥梁结构非线性与动力学         | 轨道桥梁                          |
| 5  | 祝志文 | 教授   | 博士   | 桥梁结构抗风, 钢桥          | 钢桥                            |
| 6  | 李立峰 | 教授   | 博士   | 桥梁结构有限元分析, 桥梁抗震     | 桥梁工程(上),<br>桥梁结构有限元分析         |
| 7  | 华旭刚 | 教授   | 博士   | 桥梁结构风工程             | 桥梁工程(上), 轨道桥梁                 |
| 8  | 刘志文 | 副教授  | 博士   | 桥梁结构风工程             | 桥梁工程(下), 钢-混凝土组合结构桥梁          |
| 9  | 张志田 | 副教授  | 博士   | 桥梁结构风工程             | 防灾工程学                         |
| 10 | 王连华 | 副教授  | 博士   | 桥梁非线性与结构动力学         | 桥梁工程(上)                       |
| 11 | 李寿英 | 副教授  | 博士   | 建筑结构风工程             | 桥梁工程(上),<br>轨道桥梁              |
| 12 | 晏班夫 | 副教授  | 博士   | 桥梁结构施工控制与维护管理       | 桥梁工程(上)<br>桥梁施工, 维护技术与概预算     |
| 13 | 张阳  | 副教授  | 博士   | 组合桥梁结构              | 桥梁工程(下)<br>钢-混凝土组合结构桥梁        |
| 14 | 赵华  | 副教授  | 博士   | 桥梁结构施工控制与维护管理       | 桥梁工程(上)                       |
| 15 | 樊伟  | 助理教授 | 博士   | 桥梁抗震与抗撞击            | 桥梁施工、维护技术与概预算, 桥梁抗震与抗风        |
| 16 | 朱平  | 助理教授 | 博士   | 桥梁非线性及动力学           | 桥梁工程(上)                       |

注: 部分老师也承担专业力学基础课教学

## 4. 岩土工程方向

| 序号 | 姓名  | 职称  | 学历学位 | 专业特长                  | 课程<br>(专业核心、专业选修、通识选修)       |
|----|-----|-----|------|-----------------------|------------------------------|
| 1  | 赵明华 | 教授  | 博士   | 基础工程, 地基处理            | 基础工程, 土力学, 土木工程概论, 地下空间开发与利用 |
| 2  | 陈仁朋 | 教授  | 博士   | 岩土工程                  | 土力学, 基础工程                    |
| 3  | 陈昌富 | 教授  | 博士   | 地基处理, 边坡与支挡结构, 工程勘察   | 基础工程, 地基处理, 土力学              |
| 4  | 曹文贵 | 教授  | 博士   | 地下结构, 岩石力学与数值分析, 工程地质 | 工程地质, 土力学                    |
| 5  | 苏永华 | 教授  | 博士   | 地下结构, 岩土工程可靠度, 边坡支挡结构 | 隧道工程, 岩石力学                   |
| 6  | 李刚  | 副教授 | 博士   | 岩土动力学, 基础工程           | 土动力学与工程抗震                    |
| 7  | 刘齐建 | 副教授 | 博士   | 岩土动力学, 地下结构           | 基础工程, 土动力学与工程抗震, 地下工程施工技术    |

续表

| 序号 | 姓名  | 职称    | 学历学位 | 专业特长         | 课程<br>(专业核心、专业选修、通识选修)      |
|----|-----|-------|------|--------------|-----------------------------|
| 8  | 邹新军 | 副教授   | 博士   | 基础工程, 边坡支挡结构 | 基础工程Ⅱ, 边坡与支挡结构              |
| 9  | 刘晓明 | 副教授   | 博士   | 土力学, 岩土工程勘察  | 基础工程, 岩土工程勘察, 岩土工程测试技术, 土力学 |
| 10 | 杨明辉 | 副教授   | 博士   | 岩土力学, 基础工程   | 基础工程, 土力学                   |
| 11 | 张玲  | 助理研究员 | 博士   | 复合地基         | 地基处理, 土力学, 基础工程             |
| 12 | 谭鑫  | 助理教授  | 博士   | 岩石力学, 地下结构   | 地下结构设计, 隧道工程, 土力学           |
| 13 | 黄明华 | 助理教授  | 博士   | 基础工程, 边坡支挡结构 | 工程地质, 基础工程, 土力学             |

## 七、专业责任教授

| 序号 | 姓名  | 职称 | 学历学位 | 专业特长  | 承担授课课程    |
|----|-----|----|------|-------|-----------|
| 1  | 易伟建 | 教授 | 博士   | 混凝土结构 | 混凝土结构设计原理 |

# Civil Engineering

## I . Objective

In order to cultivate students to adapt to the need of our national modernization construction and to be qualified to engage in technology, management or science research work in the civil engineering survey, design, construction, management and education, they are educated to get a comprehensive knowledge of humanities and social science, to gain a solid knowledge of natural science, to master scientific researches and engineering technologies as well to develop their spirit of innovation in scientific research, eventually, to become all-round development of morality, intelligence and physics of professionals with a broad international vision and a firm broad basic theory within the field of civil engineering disciplines and systemically in-depth expertise in engineering practice.

## II . Basic requirements

Students of civil engineering are required to gain the following six core competences:

1. The basic theory and method at civil engineering science and engineering.
2. The ability to plan and design in civil engineering.
3. The ability to construct and economic analysis.
4. The ability of building and management.
5. Comprehensive knowledge of humanities and social sciences.
6. The logic thinking of scientific research, experiment and computer application ability.

## III . Train Characteristics

This professional, particularly focusing on cultivating students' ability of design, practice and innovation, taking the mechanics and material science as the main discipline, pays attention to cultivating students to master solid basic knowledge and professional knowledge, also to develop their advanced design idea and engineering economy concept as well as innovation consciousness.

## IV . Educational system and basic requirements for graduation and confer degree

1. Basic curriculum is 4 years. Flexible learning about 3—6 years in accordance with the credit system management.

2. For students of civil engineering graduation lowest score is 175 credits, including various types of courses and credits are listed in the following table link demands.

| Course Category                   | Credits |
|-----------------------------------|---------|
| General Education (Required)      | 27      |
| Departments Education (Required)  | 24      |
| Professional Education (Required) | 34      |
| Specialized Education (Required)  | 23      |
| Specialized Education (Selected)  | 27      |
| General Education (Selected)      | 8       |
| Centralized Practice              | 32      |
| Total                             | 175     |

3. Students qualified with virtue, wisdom, body can graduate when he or she finished the required courses, selected courses and related technical elements with provisions of the undergraduate program of civil engineering, simultaneously obtaining the minimum credits for graduation including some regulation courses or links with no credits. Students who have met the relevant documents of the state grant degrees will be conferred the bachelor's degree.

## V. The courses and credits

### 1. General Education Courses [required 27+(6) + elective 8 credits]

The general education courses consist of required courses and elective courses. General education electives are designed according to the *Curriculum Design of General Education Electives of Hunan University*. Required general education courses are illustrated in the following table.

| Code         | Course Title  | Credit(s) | Remarks |
|--------------|---|-----------|---------|
| GE01101      | Introduction to Maoism and Theoretical System of Socialism with Chinese Characteristics | 3+(3)     |         |
| GE01039      | Moral Cultivation and Law Basics  | 1.5+(1.5) |         |
| GE01100      | Current Situation and Policies  | 0.5+(1.5) |         |
| GE01102      | Outline of Modern Chinese History   | 2         |         |
| GE01103      | Fundamentals of Marxism I   | 2         |         |
| GE01104      | Fundamentals of Marxism II  | 2         |         |
| GE01012(-15) | College English   | 8         |         |
| GE01088      | Computer Proficiency Test   | 0.5       |         |
| GE01095      | Introduction to Computer Science and Programming  | 2.5       |         |
| GE01107(-13) | Psychological Health & Career Planning  | 1         |         |
| GE01089(-92) | Physical Education  | 4         |         |

### 2. Departments Education (24 credits)

| Code        | Courses                                   | Credit(s) | Remarks |
|-------------|---|-----------|---------|
| GE03025     | Advanced Mathematics A( I )               | 5         |         |
| GE03026     | Advanced Mathematics A( II )              | 5         |         |
| GE03003     | Linear Algebra A                          | 3         |         |
| GE03004     | Probability and Mathematical Statistics A | 3         |         |
| GE03005     | General Physics A( I )                    | 3         |         |
| GE03006     | General Physics A( II )                   | 3         |         |
| GE03007(08) | General Physics Experiment A              | 2         |         |

### 3. Professional Education (34 credits)

| Code    | Courses             | Credit(s) | Remarks |
|---------|---------------------|-----------|---------|
| GE02006 | General Chemistry   | 2         |         |
| CE04034 | Engineering Drawing | 4         |         |
| CE04035 | Computer Graphics   | 1         |         |

Cont

| Code    | Courses  | Credit(s) | Remarks |
|---------|--|-----------|---------|
| GE02009 | Electrical Technique                             | 2         |         |
| CE04003 | Theoretical Mechanics C                          | 4         |         |
| CE04004 | Material Mechanics D                             | 4         |         |
| CE04005 | Structural Mechanics I                           | 3         |         |
| CE04006 | Structural Mechanics II                          | 3         |         |
| CE04036 | Introduction to Civil Engineering                | 1         |         |
| CE04009 | Material of Civil Engineering                    | 3         |         |
| CE04037 | Engineering Survey                               | 3         |         |
| CE04038 | Engineering Geology                              | 2         |         |
| CE04039 | Economics and Management in Engineering Projects | 2         |         |

## 4. Specialized Education (Required)(23 credits)

| Code    | Courses                                  | Credit(s) | Remarks |
|---------|--|-----------|---------|
| CE05068 | Soil Mechanics                           | 3         |         |
| CE05069 | Fluid Mechanics                          | 3         |         |
| CE05060 | Design Principle of Concrete Structure   | 4         |         |
| CE05035 | Design Principle of Steel Structure      | 3         |         |
| CE05036 | Foundation Engineering                   | 3         |         |
| CE05070 | Disaster Prevention Engineering          | 3         |         |
| CE05071 | Test and Inspection of Civil Engineering | 2         |         |
| CE05087 | Elastic Mechanics                        | 2         |         |

## 5. Specialized Education (Selected) (27 credits)

Courses and requirements of each specialized major of civil engineering are as follows.

| Code    | Courses  | Credit(s) | Remarks |                                |
|---------|--|-----------|---------|--------------------------------|
| CE06116 | Principle of Architecture <sup>(*)</sup>               | 3         | 18      | Building Structure Engineering |
| CE06117 | Road Planning and Design <sup>(*)</sup>                | 3         |         |                                |
| CE06118 | Bridge Engineering I <sup>(*)</sup>                    | 3         |         |                                |
| CE06119 | Design of Building Structure                           | 3         |         |                                |
| CE06120 | Construction Technology and Management                 | 3         |         |                                |
| CE06121 | Design of Hybrid Structure and Assembly Structure      | 2         |         |                                |
| CE06122 | Design Principle of Composite Structure                | 2         |         |                                |
| CE06124 | Principle of Bamboo and Wood Structure                 | 2         |         |                                |
| CE06125 | Analysis and Design of Large-span Structure            | 2         |         |                                |
| CE06126 | Reliability and Risk Analysis                          | 2         |         |                                |
| CE06127 | Optimization Design of Structure                       | 2         |         |                                |
| CE06111 | Structural Design of Multilayer and High-rise Building | 2         |         |                                |
| CE06129 | Design of Special Structure                            | 2         |         |                                |
| CE06130 | Fire-resistance Design of Building Structure           | 2         |         |                                |
| CE06131 | Impact and Explosion and its Protection                | 2         |         |                                |
| CE06133 | Nonlinear Analysis of Structure                        | 2         |         |                                |
| CE06134 | Assessment and Analysis of Engineering Disaster        | 2         |         |                                |

Cont

| Code    | Courses  | Credit(s) | Remarks |                    |
|---------|--|-----------|---------|--------------------|
| CE06116 | Principle of Architecture (**)                   | 3         | 18      | Bridge Engineering |
| CE06117 | Road Planning and Design(**)                     | 3         |         |                    |
| CE06118 | Bridge Engineering I (**)                        | 3         |         |                    |
| CE06135 | Bridge Engineering II                            | 3         |         |                    |
| CE06136 | Bridge Construction, Maintenance and Management  | 3         |         |                    |
| CE06065 | Finite Element Analysis of Bridge Structure      | 1         |         |                    |
| CE06012 | Steel Bridge                                     | 2         |         |                    |
| CE06010 | Steel and Concrete Composite Bridge              | 2         |         |                    |
| CE06077 | Tunnel Engineering                               | 2         |         |                    |
| CE06061 | Conceptual Design and Aesthetics of Bridge       | 2         |         |                    |
| CE06137 | Rail Bridge                                      | 2         |         |                    |
| CE06116 | Principle of Architecture (**)                   | 3         |         |                    |
| CE06117 | Road Planning and Design(**)                     | 3         |         |                    |
| CE06118 | Bridge Engineering I (**)                        | 3         |         |                    |
| CE06077 | Tunnel Engineering                               | 2         |         |                    |
| CE06138 | Design of Underground Structure                  | 2         |         |                    |
| CE06139 | Foundation Engineering II                        | 2         |         |                    |
| CE06103 | Rock Mechanics                                   | 2         |         |                    |
| CE06140 | Slope Engineering                                | 2         |         |                    |
| CE06141 | Ground Treatment                                 | 2         |         |                    |
| CE06142 | Geo-technical Engineering Investigation          | 2         |         |                    |
| CE06144 | Development and Utilization of Underground Space | 2         |         |                    |
| CE06116 | Principle of Architecture (**)                   | 3         | 18      | Road Engineering   |
| CE06117 | Road Planning and Design(**)                     | 3         |         |                    |
| CE06118 | Bridge Engineering I (**)                        | 3         |         |                    |
| CE06115 | Road Subgrade and Pavement Engineering           | 3         |         |                    |
| CE06100 | Traffic Engineering                              | 3         |         |                    |
| CE06114 | Road Construction organization and Management    | 2         |         |                    |
| CE06052 | Asphalt and Asphalt Mixtures                     | 2         |         |                    |
| CE06169 | Traffic Planning Principle                       | 2         |         |                    |
| CE06045 | Traffic Control and Management                   | 2         |         |                    |
| CE06029 | Planning and Design of Airport                   | 2         |         |                    |
| CE06025 | Introduction to Rail Transit                     | 2         |         |                    |

| Cont    |  |           |                                      |
|---------|--|-----------|--------------------------------------|
| Code    | Courses  | Credit(s) | Remarks                              |
| CE06116 | Principle of Architecture                              | 3         | Extended Curriculum Course,9 Credits |
| CE06119 | Design of Building Structure                           | 3         |                                      |
| CE06120 | Construction Technology and Management                 | 3         |                                      |
| CE06121 | Design of Hybrid Structure and Assembly Structure      | 3         |                                      |
| CE06118 | Bridge Engineering I (*)                               | 3         |                                      |
| CE06135 | Bridge Engineering II                                  | 3         |                                      |
| CE06136 | Bridge Construction, Maintenance and Management        | 3         |                                      |
| CE06117 | Road Planning and Design                               | 3         |                                      |
| CE06115 | Road Subgrade and Pavement Engineering                 | 3         |                                      |
| CE06100 | Traffic Engineering                                    | 3         |                                      |
| CE06007 | Tunnel Engineering                                     | 2         |                                      |
| CE06138 | Design of Underground Structure                        | 2         |                                      |
| CE06140 | Slope Engineering                                      | 2         |                                      |
| CE06139 | Foundation Engineering II                              | 2         |                                      |
| CE06149 | Principles of Management                               | 2         |                                      |
| CE06146 | Investment and Financing Economics                     | 2         |                                      |
| CE06145 | Laws and Regulations on Construction                   | 2         |                                      |
| CE06150 | Complex Variables B                                    | 2         |                                      |
| CE06122 | Design Principles of Composite Structure               | 2         |                                      |
| CE06124 | Principle of Bamboo and Wood Structure                 | 2         |                                      |
| CE06125 | Analysis and Design of Large-span Structure            | 2         |                                      |
| CE06126 | Reliability and Risk Analysis                          | 2         |                                      |
| CE06127 | Optimization Design of Structure                       | 2         |                                      |
| CE06111 | Structural Design of Multilayer and High-rise Building | 2         |                                      |
| CE06129 | Design of Special Structure                            | 2         |                                      |
| CE06065 | Finite Element Analysis of Bridge Structure            | 1         |                                      |
| CE06012 | Steel Bridge   | 2         |                                      |
| CE06010 | Steel and Concrete Composite Bridge                    | 2         |                                      |
| CE06061 | Conceptual Design and Aesthetics of Bridge             | 2         |                                      |
| CE06137 | Rail Bridge  | 2         |                                      |
| CE06103 | Rock Mechanics   | 2         |                                      |
| CE06141 | Ground Treatment                                       | 2         |                                      |
| CE06142 | Geo-technical Engineering Investigation                | 2         |                                      |
| CE06143 | Environmental Geo-technical Engineering                | 2         |                                      |
| CE06144 | Development and Utilization of Underground Space       | 2         |                                      |
| CE06114 | Road Construction Organization and Management          | 2         |                                      |
| CE06052 | Asphalt and Asphalt Mixtures                           | 2         |                                      |
| CE06169 | Traffic Planning Principle                             | 2         |                                      |
| CE06045 | Traffic Control and Management                         | 2         |                                      |
| CE06029 | Planning and Design of Airport                         | 2         |                                      |
| CE06025 | Introduction to Rail Transit                           | 2         |                                      |
| CE06130 | Fire-resistance Design of Building Structure           | 2         |                                      |
| CE06131 | Impact and Explosion and its Protection                | 2         |                                      |
| CE06133 | Nonlinear Analysis of Structure                        | 2         |                                      |
| CE06134 | Assessment and Analysis of Engineering Disaster        | 2         |                                      |
| CE06148 | Development and Vision of Civil Engineering            | 1         |                                      |
| CE06147 | Innovation Research in Civil Engineering               | 1         |                                      |

Note:1)the marker (\*) means choosing one from the three courses.

2)Through participating scientific activities or by demonstrating scientific achievements, students can obtain maximum 3 scientific practice credits upon the scientific activities and achievements are recognized by the college curriculum committee. The scientific activities and achievements could be scientific competitions, SIT, research papers, patents, copyrighted software, equipment/devises, etc. The scientific practice credits can substitute for selective credits.

## 6. Centralized Practice (32 credits)

The centralized practice includes following technical elements.

| Code    | Course name  | Credit(s) | Remarks                  |
|---------|--|-----------|--------------------------|
| GE09030 | Chinese Writing Training   | 1         |                          |
| CE10008 | Cognition Practice   | 1         |                          |
| CE10052 | Practical Education of Engineering Geology                               | 1         |                          |
| CE10035 | Geomatics Practice   | 2         |                          |
| CE10061 | Construction Practice  | 2         |                          |
| CE10072 | Graduation Practice  | 1         |                          |
| CE10029 | Course Design of Design Principle of Concrete Structure                  | 1         |                          |
| CE10038 | Course Design of Design Principle of Steel Structure                     | 1         |                          |
| CE10024 | Course Design of Foundation Engineering                                  | 1         |                          |
| CE10073 | Course Design of Road Planning and Design (*)                            | 2(*)      |                          |
| CE10074 | Course Design of Bridge Engineering I (*)                                | 2(*)      |                          |
| CE10075 | Course Design of Principle of Architecture (*)                           | 2(*)      |                          |
| CE10076 | Course Design of Design of Building Structures                           | 2         |                          |
| CE10077 | Course Design of Construction Technology and Management                  | 2         |                          |
| CE10078 | Course design of Structural design of Multilayer and High-rise Buildings | 1         |                          |
| CE10079 | Course Design of Bridge engineering II                                   | 2         | Bridge Engineering       |
| CE10080 | Course Design of Bridge Construction, Maintenance and Management         | 1         |                          |
| CE10081 | Course Design of Road Planning and Design                                | 2         | Road Engineering         |
| CE10082 | Course Design of Road Subgrade and Pavement Engineering                  | 2         |                          |
| CE10018 | Course design of Traffic Engineering                                     | 1         |                          |
| CE10083 | Course Design of Bridge Engineering I                                    | 2         | Geotechnical Engineering |
| CE10084 | Course Design of Tunnel engineering                                      | 1         |                          |
| CE10085 | Course Design of Design of Underground Structure                         | 1         |                          |
| CE10025 | Course Design of Foundation Engineering II                               | 1         |                          |
| CE10044 | Course Design of Rock Mechanics  | 1         |                          |
| CE10086 | Course Design of Slope Engineering                                       | 1         |                          |
| CE10071 | Graduation Thesis (Design)   | 14        |                          |

Note:1) (\*) means the curriculum should be choose one from the three corresponded.

2)The specific contents of design principle of concrete structures and design principle of steel structures will do the necessary adjustment as it relates to industrial standards.

3)Students must attend academic lectures more than five times,and take no less than 30 days to attend or work-study programs related to the professional engineering practice.

4)The course which is choose by less than 15 students will be stopped in principle.

## VI. Course responsibility professors

### 1. Construction Engineering

| No. | Name         | Professional titles | Degree   | Major                  | Courses  |
|-----|--------------|---------------------|----------|------------------------|--|
| 1   | Yi Weijian   | Prof.               | Ph. D    | Structural Engineering | Design Principle of Concrete Structure, Design of Building Structure   |
| 2   | Fang Zhi     | Prof.               | Ph. D    | Structural Engineering | Design Principle of Concrete Structure, Prestressed Concrete and Precast Concrete Structure Principle and Design, Design of Building Structure, Bridge Engineering |
| 3   | Wu Fangbo    | Prof.               | M. H. A. | Structural Engineering | Prestressed Concrete and Precast Concrete Structure Principle and Design, Design of Building Structure, Disaster Prevention Engineering                            |
| 4   | Wang Mengfu  | Prof.               | Ph. D    | Structural Engineering | Structural Mechanics, Design of Building Structure, Reliability and Risk Analysis  |
| 5   | Shu Xingping | Prof.               | Ph. D    | Structural Engineering | Design Principle of Steel Structure, Design of Building Structure  |
| 6   | He Yongjun   | Prof.               | Ph. D    | Structural Engineering | Design Principle of Steel Structure, Analysis and Design of Large-span Structure   |
| 7   | Huo Jingsi   | Prof.               | Ph. D    | Structural Engineering | Design Principle of Steel Structure, Fire-resistance Design of Building Structure  |
| 8   | Xu Bin       | Prof.               | Ph. D    | Structural Engineering | Disaster Prevention Engineering, Reliability and Risk Analysis, Test and Inspection of Civil Engineering   |
| 9   | Li Zhengnong | Prof.               | Ph. D    | Structural Engineering | Disaster Prevention Engineering, Reliability and Risk Analysis, Design of Special Structure  |
| 10  | Guo Yurong   | Prof.               | Ph. D    | Structural Engineering | Disaster Prevention Engineering, Prestressed Concrete and Precast Concrete Structure Principle and Design, Impact and Explosion and its Protection                 |
| 11  | Liu Guiqiu   | Prof.               | Ph. D    | Structural Engineering | Marshaling structure, Design of Building Structure   |
| 12  | Liao Sha     | Associate Prof.     | Ph. D    | Structural Engineering | Design Principle of Concrete Structure, Design of Building Structure   |

Cont

| No. | Name          | Professional titles | Degree | Major                  | Courses   |
|-----|---------------|---------------------|--------|------------------------|---|
| 13  | Tang Changhui | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Concrete Structure, Design of Building Structure, Test and Inspection of Civil Engineering                                      |
| 14  | Zhang Wangxi  | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Concrete Structure, Design of Building Structure, Test and Inspection of Civil Engineering                                      |
| 15  | Du Yunxing    | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Steel Structure, Design of Building Structure   |
| 16  | Liu Xia       | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Concrete Structure, Design of Building Structure, Optimization Design of Structure  |
| 17  | Shan Bo       | Associate Prof.     | Ph. D  | Structural Engineering | Principle of Architecture, Principle of Bamboo and Wood Structure principle, Material of Civil Engineering  |
| 18  | Huang Liang   | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Concrete Structure, Design of Building Structure  |
| 19  | Yin Huawei    | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Concrete Structure, Design of Building Structure, Test and Inspection of Civil Engineering                                      |
| 20  | Huang Yuan    | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Concrete Structure, Composite Structure, Test and Inspection of Civil Engineering   |
| 21  | Zhou Yun      | Associate Prof.     | Ph. D  | Structural Engineering | Design Principle of Steel Structure, Design Principle of Concrete Structure, Design of Building Structure, Test and Inspection of Civil Engineering |
| 22  | Wang Haidong  | Associate Prof.     | Ph. D  | Structural Engineering | Disaster Prevention Engineering, Design of Special Structure, Reliability and Risk Analysis   |
| 23  | Xiong Hui     | Associate Prof.     | Ph. D  | Structural Engineering | Disaster Prevention Engineering, Test and Inspection of Civil Engineering   |
| 24  | Wen Xuezhong  | Associate Prof.     | Ph. D  | Structural Engineering | Disaster Prevention Engineering, Computer Aided Design, Optimization Design of Structure  |
| 25  | Tu Wenge      | Associate Prof.     | Ph. D  | Structural Engineering | Disaster Prevention Engineering, Special Structures   |
| 26  | Liu Yanzhi    | Assistant Prof.     | Ph. D  | Structural Engineering | Design Principle of Steel Structure, Composite Structure, Impact and Explosion and its Protection   |
| 27  | Ma Gao        | Assistant Prof.     | Ph. D  | Structural Engineering | Design Principle of Concrete Structure, Prestressed Concrete and Precast Concrete Structure Principle and Design, Design of Building Structure      |

Cont

| No. | Name      | Professional titles | Degree | Major   | Courses  |
|-----|-----------|---------------------|--------|---|--|
| 28  | Li Wengui | Assistant Prof.     | Ph. D  | Structural Engineering  | Design Principle of Concrete Structure, Material of Civil Engineering, Test and Inspection of Civil Engineering    |
| 29  | Yang Ou   | Assistant Prof.     | Ph. D  | Structural Engineering Disaster Prevention and Mitigation Engineering | Disaster Prevention Engineering, Test and Inspection of Civil Engineering, Impact and Explosion and its Protection |

Note: Some of these teachers also undertake the teaching task of the professional mechanical basic course.

## 2. Road Engineering

| No. | Name           | Professional titles | Degree   | Major            | Courses   |
|-----|----------------|---------------------|----------|------------------|---|
| 1   | Zeng Menlan    | Prof.               | Ph. D    | Road Engineering | Asphalt and Asphalt Mixtures  |
| 2   | Huang Likui    | Prof.               | M. H. A. | Road Engineering | Road Sub-grade and Pavement Engineering                                 |
| 3   | Yan Kezheng    | Prof.               | Ph. D    | Road Engineering | Road Sub-grade and Pavement Engineering, Introduction to Rail Transit   |
| 4   | Li Jia         | Prof.               | M. H. A. | Road Engineering | Road Sub-grade and Pavement Engineering, Traffic Planning Principle     |
| 5   | Li Shuo        | Prof.               | Ph. D    | Road Engineering | Traffic Engineering, Traffic Planning Principle                         |
| 6   | Wang Changheng | Associate Prof.     | M. H. A. | Road Engineering | Road performance evaluation and maintenance                             |
| 7   | Liao Minzhi    | Associate Prof.     | Ph. D    | Road Engineering | Introduction to Rail Transit, Planning and Design of Airport            |
| 8   | Zhang Henglong | Assistant Prof.     | Ph. D    | Road Engineering | Road Sub-grade and Pavement Engineering, Asphalt and Asphalt Mixtures   |
| 9   | Du Panfeng     | Assistant Prof.     | Master   | Road Engineering | Planning and Design of Road   |
| 10  | Li Jie         | Assistant Prof.     | Ph. D    | Road Engineering | Planning and Design of Road   |
| 11  | Li Qun         | Assistant Prof.     | Master   | Road Engineering | Road Sub-grade and Pavement Engineering, Planning and Design of Airport |

## 3. Bridge Engineering

| No. | Name           | Professional titles | Degree | Major              | Courses   |
|-----|----------------|---------------------|--------|--------------------|---|
| 1   | Chen Zhengqing | Prof.               | Ph. D  | Bridge Engineering | Seismic and wind-Resistance of Bridge                                 |
| 2   | Shao Xudong    | Prof.               | Ph. D  | Bridge Engineering | Bridge Engineering II, Bridge structure concept design and aesthetics |

Cont

| No. | Name          | Professional titles | Degree | Major              | Courses   |
|-----|---------------|---------------------|--------|--------------------|---|
| 3   | Fang Zhi      | Prof.               | Ph. D  | Bridge Engineering | Design Principle of Concrete Structure, Pre-stressed Concrete and Precast Concrete Structure Principle and Design |
| 4   | Deng Lu       | Prof.               | Ph. D  | Bridge Engineering | Seismic and Wind-Resistance of Bridge Rail Bridge   |
| 5   | Zhu Zhiwen    | Prof.               | Ph. D  | Bridge Engineering | Steel Bridge  |
| 6   | Li Lifeng     | Prof.               | Ph. D  | Bridge Engineering | Bridge Engineering I , Finite Element Analysis of Bridge Structure  |
| 7   | Hua Xugang    | Prof.               | Ph. D  | Bridge Engineering | Bridge Engineering I , Rail Bridge  |
| 8   | Liu Zhiwen    | Associate Prof.     | Ph. D  | Bridge Engineering | Bridge Engineering II , Steel and Concrete Composite Bridge   |
| 9   | Zhang Zhitian | Associate Prof.     | Ph. D  | Bridge Engineering | Disaster Prevention Engineering   |
| 10  | Wang Lianhua  | Associate Prof.     | Ph. D  | Bridge Engineering | Bridge Engineering I  |
| 11  | Li Shouying   | Associate Prof.     | Ph. D  | Bridge Engineering | Bridge Engineering I ,Rail Bridge   |
| 12  | Yan Banfu     | Associate Prof.     | Ph. D  | Bridge Engineering | Bridge Engineering I , Bridge Construction Maintenance and Management   |
| 13  | Zhang Yang    | Associate Prof.     | Ph. D  | Bridge Engineering | Bridge Engineering II , Steel and Concrete Composite Bridge   |
| 14  | Zhao Hua      | Associate Prof.     | Ph. D  | Bridge Engineering | Bridge Engineering I  |
| 15  | Fan Wei       | Assistant Prof.     | Ph. D  | Bridge Engineering | Bridge Construction Maintenance and Management , Seismic and Wind-Resistance of Bridge                            |
| 16  | Zhu Ping      | Assistant Prof.     | Ph. D  | Bridge Engineering | Bridge Engineering I  |

Note:Some of these teachers also undertake the teaching task of the professional mechanical basic course.

#### 4. Geotechnical Engineering

| No. | Name         | Professional titles | Degree | Major                    | Course  |
|-----|--------------|---------------------|--------|--------------------------|---|
| 1   | Zhao Minghua | Prof.               | Ph. D  | Geotechnical Engineering | Foundation Engineering<br>Soil Mechanics<br>Introduction to Civil Engineering<br>Development and Utilization of Underground Space |
| 2   | Chen Renpeng | prof.               | Ph. D  | Geotechnical Engineering | Soil Mechanics Foundation Engineering   |
| 3   | Chen Changfu | Prof.               | Ph. D  | Geotechnical Engineering | Foundation Engineering<br>Ground Treatment<br>Soil Mechanics  |

## Cont

| No. | Name          | Professional titles  | Degree | Major                    | Course  |
|-----|---------------|----------------------|--------|--------------------------|---|
| 4   | Cao Wengui    | Prof.                | Ph. D  | Geotechnical Engineering | Engineering Geology, Soil Mechanics   |
| 5   | Su Yonghua    | Prof.                | Ph. D  | Geotechnical Engineering | Tunnel Engineering<br>Rock Mechanics  |
| 6   | Li Gang       | Associate Prof.      | Ph. D  | Geotechnical Engineering | Soil Dynamics and Earthquake Resistance   |
| 7   | Liu Qijian    | Associate Prof.      | Ph. D  | Geotechnical Engineering | Foundation Engineering, Soil Dynamics and Earthquake Resistance, Underground Engineering Construction technology            |
| 8   | Zou Xinjun    | Associate Prof.      | Ph. D  | Geotechnical Engineering | Foundation Engineering II, Slope and retaining structure  |
| 9   | Liu Xiaoming  | Associate Prof.      | Ph. D  | Geotechnical Engineering | Foundation Engineering, Geotechnical Engineering Investigation, Geotechnical Engineering Testing Technology, Soil Mechanics |
| 10  | Yang Minghui  | Associate Prof.      | Ph. D  | Geotechnical Engineering | Foundation Engineering, Soil Mechanics  |
| 11  | Zhang Ling    | Assistant Researcher | Ph. D  | Geotechnical Engineering | Ground Treatment, Soil Mechanics, Foundation Engineering  |
| 12  | Tan Xin       | Assistant Prof.      | Ph. D  | Geotechnical Engineering | Design of Underground Structure, Tunnel Engineering, Soil Mechanics   |
| 13  | Huang Minghua | Assistant Prof.      | Ph. D  | Geotechnical Engineering | Engineering Geology, Foundation Engineering, Soil Mechanics   |

## VII. Professional responsibility professors

| No. | Name       | Professional titles | Degree | Major                  | Course                                 |
|-----|------------|---------------------|--------|------------------------|--|
| 1   | Yi Weijian | Prof.               | Ph. D  | Structural Engineering | Design Principle of Concrete Structure |

(翻译人:刘志文)