

Federal State Budgetary Educational Institution of Higher Education
«Ural State University of Architecture and Art»

APPROVED by
 Academic Council of USUAA
 18 April 2019, Minutes 27-01YC-08

APPROVED by
 Rector
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CURRICULUM

Bachelor training in subject area 07.03.01 Architecture
 Subject Architectural Design

Qualification – Bachelor
 Standard duration – 5 years
 Tuition format – full-time
 Year of enrolment – 2021

I Academic Schedule

| months week year | September | | | | | October | | | | November | | | | | December | | | | January | | | | February | | | | March | | | | | April | | | | | May | | | | June | | | | July | | | | Λ | | | | | | | | |
|------------------------|-----------|---|---|---|---|---------|----|---|---|----------|----|----|----|----|----------|----|----|----|---------|----|----|----|----------|----|----|----|-------|----|----|----|----|-------|----|----|----|----|-----|----|----|----|------|----|----|----|------|----|----|----|---|----|----|---|----|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | | 49 | 50 | | | | | | |
| I | [| | | | | | 18 | | | | | | | | | | | | n | • | • | = | [| | | | | | | 18 | | | | | | | | | | π | | | | | | | | | • | • | X | X | XX | = | = | = | = |
| II | [| | | | | | 18 | | | | | | | | | | | | n | • | • | = | [| | | | | | | 18 | | | | | | | | | | π | | | | | | | | | • | • | X | X | = | = | = | = | = |
| III | [| | | | | | 18 | | | | | | | | | | | | n | • | • | = | [| | | | | | | 18 | | | | | | | | | | π | | | | | | | | | • | • | • | X | X | X | = | = | = |
| IV | [| | | | | | 18 | | | | | | | | | | | | n | • | = | = | [| | | | | | | 18 | | | | | | | | | | π | | | | | | • | XX | X | X | X | X | = | = | | | | |
| V | [| | | | | | 18 | | | | | | | | | | | | n | • | • | • | • | X | X | = | = | = | = | = | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | π | = | = | = | = | = | | |

[] - theoretical
 = - vacations

• - Examination period
 π - Final assessment

X - Practical training

n - National holidays

II. Total workload (credits)

| Year | Theoretical part | Practice | Final assessment | Total credits |
|-------|------------------|----------|------------------|---------------|
| I | 56 | 4 | - | 60 |
| II | 57 | 3 | - | 60 |
| III | 58 | 2 | - | 60 |
| IV | 54 | 6 | - | 60 |
| V | 33 | 3 | 24 | 60 |
| Total | 258 | 18 | 24 | 300 |

III. Detailed curriculum by subject

| No. | Name of discipline types of practical training | Workload | | | | Distribution by year and semester | | | | | | | | | | Inter assessr (form and di by scme exam test | | |
|-----------|---|------------|----------------|-------------|---|-----------------------------------|------|--------|------|--------|------|--------|------|--------|-----|--|----|---------|
| | | Credits | Academic hours | | | Year 1 | | Year 2 | | Year 3 | | Year 4 | | Year 5 | | | | |
| | | | Total | including | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | |
| | | | | in class | self-study (* including exam workload) | sem | sem | sem | sem | sem | sem | sem | sem | sem | sem | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| B1 | Grouping 1. Disciplines | 258 | 9288 | 3906 | 5382 | | | | | | | | | | | | | |
| B1.O | Compulsory part | 158 | 5688 | | | | | | | | | | | | | | | |
| B1.O.1 | History (history of Russia, general history) | 3 | 108 | 36 | 36+36* | | 2-2* | | | | | | | | | | 2 | |
| B1.O.2 | Foreign language | 7 | 252 | 108 | 108+36* | 2-2 | 2-2 | 2-2* | | | | | | | | | 3 | 1,2 |
| B1.O.3 | Philosophy | 4 | 144 | 54 | 54+36* | | | | | | | 3-3* | | | | | 7 | |
| B1.O.4 | Health and safety | 2 | 72 | 36 | 36 | | | | | | | 2-2 | | | | | 7 | |
| B1.O.5 | Physical training and sports | 2 | 72 | 18 | 54 | | | | | | | | 1-3 | | | | 8 | |
| B1.O.6 | Cultural studies | 3 | 108 | 36 | 36+36* | | | | | | | | | 2-2* | | | 9 | |
| B1.O.7 | Economics | 2 | 72 | 36 | 36 | | | | | 2-2 | | | | | | | 5 | |
| B1.O.8 | Law | 2 | 72 | 36 | 36 | | | | | | | | | 2-2 | | | 9 | |
| B1.O.9 | Practical stylistics of the Russian language | 4 | 144 | 36 | 72+36* | | | | | | | | | 2-4* | | | 9 | |
| B1.O.10 | Architectural and construction drawing | 3 | 108 | 36 | 72 | 2-4 | | | | | | | | | | | 1 | |
| B1.O.11 | Descriptive geometry | 3 | 108 | 36 | 72 | 2-4 | | | | | | | | | | | 1 | |
| B1.O.12 | Basics of architectural composition | 4 | 144 | 36 | 72+36* | 2-4* | | | | | | | | | | | 1 | |
| B1.O.13 | Compositional modeling | 7 | 252 | 72 | 144+36* | | 2-4* | 2-4 | | | | | | | | | 2 | 3** |
| B1.O.14 | Information technologies and computer-aided visualization | 18 | 648 | 216 | 432 | | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 | 2-4 | | | | | | 2-7** |
| B1.O.15 | Drawing | 14 | 504 | 432 | 72 | 4- | 4- | 4- | 4- | 4-2 | 4-2 | | | | | | | (1-6)** |
| B1.O.16 | Painting | 5 | 180 | 144 | 36 | | | 4- | 4-2 | | | | | | | | | (3,4)** |
| B1.O.17 | Architectural composition combinatorics | 2 | 72 | 36 | 36 | | 2-2 | | | | | | | | | | | 2** |
| B1.O.18 | Sculpture and plastic modelling | 3 | 108 | 72 | 36 | | | | | | 4-2 | | | | | | | 6** |
| B1.O.19 | Architectural materials exploration | 3 | 108 | 36 | 36+36* | 2-2* | | | | | | | | | | | 1 | |
| B1.O.20 | Basic geodesy | 2 | 72 | 36 | 36 | | 2-2 | | | | | | | | | | | 2 |
| B1.O.21 | Architectural and urban planning ecology | 2 | 72 | 36 | 36 | | | 2-2 | | | | | | | | | | 3 |
| B1.O.22 | Traffic and pedestrian circulation in urban plans | 3 | 108 | 36 | 36+36* | | | | 2-2* | | | | | | | | 4 | |
| B1.O.23 | Building site development | 2 | 72 | 36 | 36 | | | | | 2-2 | | | | | | | | 5 |
| B1.O.24 | Building typology | 2 | 72 | 36 | 36 | | | | | 2-2 | | | | | | | | 5** |
| B1.O.25 | Architectural and construction technologies | 3 | 108 | 36 | 36+36* | | | | | | 2-2* | | | | | | 6 | |
| B1.O.26 | Building services and equipment | 3 | 108 | 36 | 36+36* | | | | | | 2-2* | | | | | | 6 | |
| B1.O.27 | Architectural physics | 5 | 180 | 72 | 72+36* | | | | | 2-2 | 2-2* | | | | | | 6 | 5** |
| B1.O.28 | Architectural structures and theory of engineering design | 7 | 252 | 108 | 108+36* | | | 2-2 | 2-2 | 2-2* | | | | | | | 5 | (3,4)** |
| B1.O.29 | Engineering structures | 8 | 288 | 108 | 144·36* | | | | | | 2-2 | 2-2 | 2-4* | | | | 8 | 6**,7 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
|-------------|---|------------|-------------|-----|----------|------|------|------|------|------|------|------|------|-------|----|-----|---------|
| Б1.О.30 | Computer modelling of building structures | 3 | 108 | 36 | 72 | | | | | | | | | 2-4 | | | 9 |
| Б1.О.31 | Structural mechanics | 5 | 180 | 72 | 72+36* | | | 2-2 | 2-2* | | | | | | | 4 | 3 |
| Б1.О.32 | Basic higher mathematics | 3 | 108 | 36 | 72 | | 2-4 | | | | | | | | | | 2 |
| Б1.О.33 | Basics of urban planning theory | 2 | 72 | 36 | 36 | | | | 2-2 | | | | | | | | 4 |
| Б1.О.34 | Contemporary architecture | 3 | 108 | 36 | 36+36* | | | | | | 2-2* | | | | | 6 | |
| Б1.О.35 | Design methodology | 2 | 72 | 18 | 54 | | | | | | | 1-3 | | | | | 7 |
| Б1.О.36 | Architectural design and construction economics | 4 | 144 | 54 | 54+36* | | | | | | | | 3-3* | | | 8 | |
| Б1.О.37 | Basics of financial competence | 2 | 72 | 36 | 36 | | | | | | | | 2-2 | | | | 8 |
| Б1.О.ДВ | Electives | 6 | | | | | | | | | | | | | | | |
| Б1.О.ДВ.1.1 | Modern building services and systems, material and energy saving in architecture and urban planning | 3 | 108 | 36 | 36+36* | | | | | | | | | 2-2* | | 9 | |
| Б1.О.ДВ.1.2 | Environmental factors in architecture and urban planning | | | | | | | | | | | | | | | | |
| Б1.О.ДВ.1.3 | Construction process management | | | | | | | | | | | | | | | | |
| Б1.О.ДВ.2.1 | Architectural treatment of cities | 3 | 108 | 36 | 72 | | | | | | | 2-4 | | | | | 7 |
| Б1.О.ДВ.2.2 | Urban environment landscaping | | | | | | | | | | | | | | | | |
| Б1.Ф | Part determined by educators and learners | 100 | 3600 | | | | | | | | | | | | | | |
| Б1.Ф.1 | History of spatial arts | 15 | 540 | 180 | 180+180* | 2-2* | 2-2* | 2-2* | 2-2* | 2-2* | | | | | | 1-5 | |
| Б1.Ф.2 | Sociology | 2 | 72 | 36 | 36 | | | | | 2-2 | | | | | | | 5 |
| Б1.Ф.3 | Design and research methodology | 3 | 108 | 36 | 36+36* | | | | | | | | | 2-2* | | 9 | |
| Б1.Ф.4 | Regional issues in history and theory of architecture and urban planning | 3 | 108 | 36 | 72 | | | | | | | | 2-4 | | | | 8 |
| Б1.Ф.5 | Architectural design | 63 | 2268 | 972 | 1260+36* | 6-4 | 6-4 | 6-6 | 6-6 | 6-6 | 6-8 | 6-10 | 6-12 | 6-14* | | 9 | (1-8)** |
| Б1.Ф.6 | Basics of architectural practice | 2 | 72 | 18 | 54 | 1-3 | | | | | | | | | | | 1 |
| Б1.Ф.7 | Theory of conceptual design | 2 | 72 | 36 | 36 | | | | 2-2 | | | | | | | | 4 |
| Б1.Ф.8 | Detailed design development | 4 | 144 | 72 | 72 | | | | | | | 2-2 | 2-2 | | | | 7,8** |
| Б1.Ф.9 | Professional practice | 2 | 72 | 36 | 36 | | | | | | | | 2-2 | | | | 8 |
| Б1.Ф.ДВ | Electives | 4 | | | | | | | | | | | | | | | |
| Б1.Ф.ДВ.1.1 | Architecture and urban planning aesthetics | 4 | 144 | 36 | 72+36* | | | | | | | | | 2-4* | | 9 | |
| Б1.Ф.ДВ.1.2 | Basic theory of architecture and other spatial arts | | | | | | | | | | | | | | | | |
| Б2 | Grouping 2. Practical training | 18 | | | | | | | | | | | | | | | |
| Б2.О | Compulsory part | 9 | | | | | | | | | | | | | | | |
| Б2.О.1 | Introductory academic practice (architectural surveying and geodesy) | 4 | 144 | | | | | X | | | | | | | | | 2** |
| Б2.О.2 | Academic practice in arts | 3 | 108 | | | | | | X | | | | | | | | 4** |
| Б2.О.3 | General construction practice (construction process) | 2 | 72 | | | | | | | | X | | | | | | 6** |

| | | | | | | | | | | | | | | | | | | |
|------------------------|--|----------------------------|--------------|-----|----|-----|----|----|----|----|----|----|-----|----|----|----|-----|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | |
| Б2.Ф | Part determined by educators and learners | 9 | | | | | | | | | | | | | | | | |
| Б2.Ф.1 | Design practice in industry | 6 | 216 | | | | | | | | | | X | | | | 8** | |
| Б2.Ф.2 | Pre-graduation practice in industry | 3 | 108 | | | | | | | | | | | X | | | 9** | |
| Б3 | Grouping 3. Final assessment | 24 | | | | | | | | | | | | | | | | |
| Б3.1 | Preparation and defense of graduate qualification work | 24 | | | | | | | | | | | | | X | | | |
| | Scope of bachelor degree programme | 300 | 10800 | | | | | | | | | | | | | | | |
| ЭД | Elective disciplines in physical training and sports | - | 328 | 328 | - | 4- | 2- | 2- | 2- | 2- | 2- | 4- | | | | | 1-7 | |
| ФТД | Optional disciplines | 2 | 72 | 36 | 36 | 1-1 | | | | | | | 1-1 | | | | 1,8 | |
| Total per week | | Classroom hours | | | | | 28 | 28 | 30 | 30 | 28 | 28 | 24 | 21 | 20 | | | |
| | | Self-study hours | | | | | 26 | 26 | 24 | 24 | 26 | 26 | 30 | 33 | 34 | | | |
| Total per semester | | Total hours (Б1, ЭД, ФТД) | | | | | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | 54 | | | |
| | | Credits (Б1) | | | | | 27 | 29 | 28 | 29 | 28 | 30 | 26 | 28 | 33 | | | |
| Year total | | Credits (Б2, Б3) | | | | | | 4 | | 3 | | 2 | | 6 | 3 | 24 | | |
| | | Total credits (Б1, Б2, Б3) | | | | | 60 | | 60 | | 60 | | 60 | | 60 | | | |
| Number of (less Б2,Б3) | | Course projects | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | | | |
| | | Course papers | | | | | - | - | 1 | 1 | - | 1 | - | - | - | | | |
| | | Examinations | | | | | 3 | 3 | 2 | 3 | 2 | 4 | 1 | 2 | 6 | | | |
| | | Tests | | | | | 8 | 8 | 9 | 8 | 9 | 6 | 8 | 7 | 2 | | | |
| | | Disciplines | | | | | 11 | 11 | 11 | 11 | 11 | 10 | 9 | 9 | 8 | | | |

| Optional disciplines | | | | Practical training | | | |
|----------------------|--------------------------------|----------|------------|--------------------|--|--------------|----------|
| No. | Discipline | Semester | Hours/week | No. | Type (focus) | Description | Semester |
| 1. | Corporate culture basics | 1 | 2 | 1. | Introductory (architectural surveying and geodesy) | Academic | 2 |
| 2. | Professional excellence basics | 8 | 2 | 2. | Artistic | Academic | 4 |
| | | | | 3. | General construction (construction process) | Academic | 6 |
| | | | | 4. | Design process | In industry. | 8 |
| | | | | 5. | Pre-graduation | In industry | 9 |
| | | | | Total weeks | | | |

| Final Assessment | | Notes |
|------------------|---|---|
| 1. | Graduate qualification work to be defended before State Examination Commission in Semester 10 | * - preparation for examination and actual examination workload constitute 1 credit ** - graded test |

The curriculum has been updated in accordance with the order of the Ministry of Science and Higher Education of Russia of 08.02.2021 No. 83

AGREED BY

Vice-Rector for Academic Affairs
Head of Academic Management Unit
Dean of Faculty of Architecture
Head of Department of Architectural Design

Victoria I. Isachenko
Tatiana D. Kolobova
Vadim A. Oparin
Alexey V. Merenkov