DRAWING AND DESCRIPTIVE GEOMETRY FOR ARCHITECTS II.

2022/23. 2. SEMESTER

| BASIC DATA | | | | | |
|---|---|---------------------------------------|--|--|--|
| COURSE NAME | Rajz és ábrázo | ló II. | Drawing and descriptive geometry for architects II. | | |
| COURSE CODE(S) | YARRAA2BNF | | | | |
| DEPARTMENT | Ó | buda University, Ybl Miklós Faculty o | of Architecture, Institute of Architecture | | |
| PROGRAMME, TRAINING | | Architect BSc | full time | | |
| COURSE INSTRUCTOR (Instructor managing the course) | Dr. Babály Bernadett PhD, egyetemi adjunktus | babaly.bernadett@ybl.uni- obuda.hu | Consultations: Wednesday: 14:25-15:10, Tuesday 10:45-11:30, department office. | | |
| INSTRUCTORS, LECTURERS | Juhász Balázs, óraadó | juhasz.balazs@archirundo.com | Consultations: Tuesday 11:40-12:25, department office. | | |
| PRE-REQUIREMENT | Drawing and de | escriptive geometry for architects | s I. (YARRAA2BNF) | | |
| HOURS OF LECTURES (WEEKLY) | 1 hours | | | | |
| HOURS OF CLASSROOM TRAINING/ LABORATORY TRAINING (WEEKLY) | 5 hours | | | | |
| FIELD WORK AND TRAINING (WEEKLY) | 0 hours | | | | |
| ASSIGNMENT | Midterm assignment and exam | | | | |
| CREDITS | 7 credits (ECTS) | | | | |
| AIM OF THE COURSE, BRIEF DESCRIPTION | Building presentation by different kinds of projection systems. Exploring the architectural visualization possibilities of 3D compositions and their projected views with edited and freehand techniques. Architectural vizualization by freehand drawings and digital post production. Presentation of materials and vegetation. | | | | |
| RECOMMENDED LITERATURE | Bölcskei A., Katona J.: Ábrázoló geometria példákon keresztül, elektronikus jegyzet. (http://www.asz.ymmf.hu/geometria) Bölcskei A., Katona J.: Ábrázoló geometria példákon keresztül II., elektronikus jegyzet. (http://www.asz.ymmf.hu/geometria2) Bancsik Zs., Juhász Imre, Lajos S.: Ábrázoló geometria szemléletesen, elektronikus könyv. (http://193.6.8.43/segedlet/dokumentumok/Abrazolo_geometria_szemleletesen.php) Pethes Endre (1963): 222 ábrázoló geometriai feladat. Műszaki Könyvkiadó, Budapest. Dobó Márton, Molnár Csaba, Peity Attila, Répás Ferenc (1999). Valóság gondolat rajz, Építészeti grafika. Műszaki könyvkiadó. Pixelgrafika építészeknek (2020). Terc Kereskedelmi és Szolgáltató KFT, ISBN: 9786155445767. | | | | |
| REQUIRED TECHNICAL APPLIANCES/ SOFTWARE | Contact: Neptun, E-learning and E-mail. Education materials: According to E-learning | | | | |



| SCHEDULE OF THE SEMESTER | | | | | | |
|------------------------------------|--|----------|-----------------------|---|--|--|
| WEEK | LECTURE | LECTURER | FORM OF TRAINING | PROGRAM OF TRAINING | | |
| 1 03.01. (Wednesday) | Introduction of the semester, tasks and requirements. MONGE'S PROJECTION Orthogonal projecting in architectural design | JB | classroom training | Choosing the project building. TASK 01/1 : Editing the horizontal and frontal projections of the project building (2 horizontal, 4 frontal drawing) | | |
| 2 03.08. (Wednesday) | MONGE'S PROJECTION Orthogonal projecting in architectural design; representing depth with shadows | JB | classroom training | TASK 01/2: Editing the shadow casting on the TASK 01/1 drawings (2 horizontal, 4 frontal drawing) | | |
| 3 03.22. (Wednesday) | AXONOMETRIC PROJECTION Use of axonometric images in architectural representation | JB | classroom training | TASK 02/1: Editing axonometric image from Monge's projections (1 axonometric view) | | |
| 4 03.29. (Wednesday) | AXONOMETRIC PROJECTION Axonometric diagrams in architectural design and shadow editing | JB | classroom training | TASK 02/2: Editing the shadow casting on the TASK 02/1 drawing (1 axonometric view) | | |
| 5 04.05. (Wednesday) | PERSPECTIVE PROJECTION 1-2-3 vanishing point projections in architectural representation | JB | classroom training | TASK 03/1: Editing a 2 vanishing point perspective view from Monge projections (1 perspective view) | | |
| 6 04.12. (Wednesday) | PERSPECTIVE PROJECTION 1-2-3 vanishing point projections in architectural representation | JB | classroom training | TASK 03/2: Editing the shadow casting on the TASK 03/1 drawing (1 perspective view) | | |
| 7 04.19. (Wednesday) | PERSPECTIVE PROJECTION 4 and 5 vanishing point projections in architectural representation | JB | classroom training | TASK 4 : Freehand composition in 4 or 5 vanishing point perspective | | |
| 8 05.03. (Wednesday) | Consultation: TASK 01 Monge's projections | JB | classroom training | Consultation: TASK 01 Monge's projections | | |
| 9 05.10. (Wednesday) | Consultation: TASK 02 Axonometric views | JB | classroom training | Consultation: TASK 02 Axonometric views SUBMISSION OF TASK 01 (in case of missing drawing or not acceptable quality 12 points will be deducted (30%)) | | |
| 10 05.17. (Wednesday) | Consultation: TASK 03-04 Perspective views | JB | classroom training | Consultation: TASK 03-04 Perspective views SUBMISSION OF TASK 02 (in case of missing drawing or not acceptable quality 10 points will be deducted (30%)) | | |



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| 11 05.24. (Wednesday) | Submission of the drawings | JB | classroom training | SUBMISSION OF TASK 03-04 (in case of missing drawing or not acceptable quality 10 points will be deducted (30%)) FINAL SUBMISSION OF TASK-01-02 |
|-----------------------------|-----------------------------------|----|-----------------------|---|
| 12 05.31. (Wednesday) | Evaluation of the submitted works | JB | classroom training | FINAL SUBMISSION OF TASK 03-04 |



| REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER (Descriptive geometry) | | | | | |
|---|---|-------------------------------|--|--|--|
| | MID-SEMESTER TASKS AND TESTS | | | | |
| REQUIREMENTS | DESCRIPTION | VALUE (point, %, grade) | | | |
| PARTICIPATION AT LESSONS | The practice lessons can be missed up to three times (see § 46 ETVSZ) | - | | | |
| IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS | Absence is considered to be justified with a medical certificate presented. | - | | | |
| | Students will choose one from the offered buildings that they will work with during the term. | | | | |
| | The drawing tasks include Monge's projections, the axonometric and perspective system with shadows editing. | | | | |
| | Tasks will be accepted if the submitted word gets minimum 50 % of the obtainable points. | - | | | |
| | In case of missing drawing or not acceptable quality by the submission deadline, 30 % of the points will be deducted, and the drawing must be corrected or resubmit by the final submission deadline. | | | | |
| TASK 01 | Editing the horizontal and frontal projections of the project building with shadows (2 horizontal, 4 frontal drawing) size: A3 - horizontal format | 40 points | | | |
| TASK 02 | Editing axonometric image from Monge's projections with shadows (1 axonometric view) size: A3 - horizontal format | 30 points | | | |
| TASK 03 | Editing a 2 vanishing point perspective view from Monge projections with shadows (1 perspective view) size: A3 - horizontal format | 30 points | | | |
| TASK 04 | Freehand composition in 4 or 5 vanishing point perspective. | 10 points | | | |
| TOTAL | | 110 points | | | |



| SCHEDULE OF THE SEMESTER (DRAWING: 3 CLASSROOM TRAINING WEEKLY) | | | | | | |
|---|------------------|----|-----------------------|--|---|--|
| WEEK | GRAM OF TRAINING | | | | | |
| VVEEN | Ε. | E. | TRAINING | TOPIC | ТАЅК | |
| 1 03.01. (Wednesday) | | | classroom training | Introduction of the semester, tasks and requirements. PLANTS AND VEGETATION I. Simplified or abstract representation of plants and vegetation on site plan and elevation. (freehand drawings) | TASK 01: Simplified representation of vegetation (6 freehand drawings): - trees with foliage (1 vertical view, 1 horizontal view) - trees with branches (1 vertical view, 1 horizontal view) - group of vegetation (1 vertical view, 1 horizontal view) | |
| 2 03.08. (Wednesday) | | | classroom training | PLANTS AND VEGETATION II. Simplified or abstract representation of plants and vegetation on site plan and elevation. (digital graphic techniques) | TASK 02: Simplified representation of vegetation (6 digital picture): digital post-production of the drawings of TASK 01 | |
| 3 03.22. (Wednesday) | | | classroom training | TEXTURE I . Simplified representation of surfaces and materials on site plan and elevation (freehand drawings). | SUBMISSION OF TASK 01 AND 02 (in case of missing drawing or not acceptable quality 5 points will be deducted) TASK 03: Simplified representation of materials (4 freehand drawings): - 1 glass - 1 wood - 1 brick - 1 optional (metal, stone, roof tile, strawetc.) | |
| 4 03.29. (Wednesday) | | | classroom training | TEXTURE II. Simplified representation of surfaces and materials on site plan and elevation (digital graphic techniques). | TASK 04: Simplified representation of materials (4 digital pictures): digital post-production of the drawings of TASK 03 Final submission deadline of TASK 01-02. In case of missing drawing or not acceptable quality the semester would be denied! | |
| 5 04.05. (Wednesday) | | | classroom training | ELEVATION I. Graphic design techniques of elevaton plans (freehand drawings). | SUBMISSION OF TASK 03 AND 04 (in case of missing drawing or not acceptable quality 5 points will be deducted) TASK 05: 1 elevation plan of the chosen building (1 freehand drawing) | |
| 6 04.12. (Wednesday) | | | classroom training | ELEVATION II. Graphic design techniques of elevaton plans (digital graphic techniques). | TASK 06: 1 elevation plan of the chosen building (1 digital pictures): digital post-production of the drawing of TASK 05Final submission deadline of TASK 03-04. In case of missing drawing or not acceptable quality the semester would be denied! | |
| 7 04.19. (Wednesday) | | | classroom training | SITE PLAN I. Graphic design techniques of site plans (freehand drawings). | SUBMISSION OF TASK 05 AND 06 (in case of missing drawing or not acceptable quality 5 points will be deducted) TASK 07: 1 site plan of the chosen building (1 freehand drawing) | |



| 8 05.03. (Wednesday) | classroom training | SITE PLAN II. Graphic design techniques of site plans (digital graphic techniques) | TASK 08: 1 site plan of the chosen building(1 digital pictures):digital post-production of the drawing ofTASK 07Final submission deadline of TASK 05-06.In case of missing drawing or notacceptable quality the semester would bedenied! |
|-----------------------------------|-----------------------|---|--|
| 9 05.10. (Wednesday) | classroom training | VISUAL DESIGN I. Complex representation of a building with environment in perspective (freehand drawings) | SUBMISSION OF TASK 07 AND 08 (in case of missing drawing or not acceptable quality 5 points will be deducted) TASK 09: Complex representation of a building with environment in perspective (1 hand drawing): |
| 10 05.17. (Wednesday) | classroom training | VISUAL DESIGN II. Complex representation of a building with environment in perspectiv (digital graphic techniques) | TASK 10: Complex representation of a building with environment in perspective (1 digital picture): digital post-production of the drawing of TASK 09Final submission deadline of TASK 07-08. In case of missing drawing or not acceptable quality the semester would be denied! |
| 11 05.24. (Wednesday) | classroom training | PORTFOLIO Basics of presentation board and portfolio design. Final submission deadline and correction of TASK 01-10. Editing the presentation board. | SUBMISSION OF TASK 09 AND 10 (in case of missing drawing or not acceptable quality 5 points will be deducted) Editing of the presentation board (portfolio) and submission. |
| 12 05.31. (Wednesday) | classroom training | Evaluation of the submitted works | Final submission deadline and correction of the portfolio. |



| REQUIREMENTS FOR THE COMPLETION OF THE SEMESTER (DRAWING) | | | | | |
|---|--|---------------|--|--|--|
| MID-SEMESTER TASKS AND TESTS | | | | | |
| Requirement | DESCRIPTION | | | | |
| PARTICIPATION AT LESSONS | The practice lessons can be missed up to three times (see § 46 ETVSZ) | | | | |
| IN CASE OF ABSENCE FROM LESSONS AND EXAMINATIONS | Absence is considered to be justified with a medical certificate presented. | | | | |
| TASK 01 | Simplified representation of vegetation (6 hand drawings): - trees with foliage (1 vertical view, 1 horizontal view) - trees with branches (1 vertical view, 1 horizontal view) - group of vegetation (1 vertical view, 1 horizontal view) File name: 01_SN_1, 01_SN_2, 01_SN_3, 01_SN_4, 01_SN_5, 01_SN_6 | 15 points | | | |
| TASK 02 | Simplified representation of vegetation (6 digital picture): digital post- production of the drawings of TASK 01 File name: 02_SN_1, 02_SN_2, 02_SN_3, 02_SN_4, 02_SN_5, 02_SN_6 | | | | |
| TASK 03 | Simplified representation of materials (4 hand drawings): - 1 glass - 1 wood - 1 brick - 1 optional (metal, stone, roof tile, strawetc.) File name: 03_SA_1, 03_SA_2, 03_SA_3, 03_SA_4, | 15 points | | | |
| TASK 04 | Simplified representation of materials (4 digital pictures): digital post- production of the drawings of TASK 03 File name: 04_SA_1, 04_SA_2, 04_SA_3, 04_SA_4, | | | | |
| TASK 05 | 1 elevation plan of the chosen building (1 hand drawing) File name: 05_HO_1 | _ | | | |
| TASK 06 | 1 elevation plan of the chosen building (1 digital pictures): digital post-production of the drawing of TASK 05 File name: 06_HO_1 | 20 points | | | |
| TASK 07 | 1 site plan of the chosen building (1 hand drawing) File name: 07_HE_1 | | | | |
| TASK 08 | 1 site plan of the chosen building (1 digital pictures): digital post-production of the drawing of TASK 07 File name: 08_HE_1 | 20 point | | | |
| TASK 09 | Complex representation of a building with environment in perspective (1 hand drawing) File name: 09_EK_1 | 20 points | | | |
| TASK 10 | Complex reprezentation of a building with environment in perspective (1 digital picture): digital post-production of the drawing of TASK 09 File name: 10_EK_1 | | | | |
| PORTFOLIO | Portfolio must contains TASK 01-10 - 1 board - vertical format - size: 30x100 cm - submission in digital form (jpg), and printed (coloured) Fájlnév: 11_PO_1 | | | | |
| OPTIONAL TASK | Maximum 10 extra points could be get if the quality or quantity of the final works exceed the requirements. (Max 3 extra points per task) | 10 points | | | |
| Every task should be | submitted in digital JPG format (freehand drawings should be scanned and e online share space discussed in the lessons. | edited) to an | | | |
| Pre-exam / exam | - | | | | |
| TOTAL | | 110 poin | | | |



| SEMESTER CLOSING REQUIREMENTS | | | | | | |
|---|--|----------------|------------------|----------------|----------------|--|
| CONDITIONS FOR OBTAINING A SIGNATURE | Descriptive geometry: - Three (3) or less absence. - All tasks should be accepted (egyenként minimum 50%-ra) until the final submission deadline. - Student should get minimum 50 points for obtaining a signature. Drawing: - Three (3) or less absence. - All tasks should be accepted until the final submission deadline. - All tasks should be accepted until the final submission deadline. - All portfolio should be accepted until the final submission deadline. - Student should get minimum 50 points for obtaining a signature. If ANY of the requirements are not fulfilled, the semester will be denied! | | | | | |
| CONDITIONS FOR SIGNATURE REPLACEMENT | Descriptive geometry: - Three (3) or less absence. - Student should get minimum 40 points. Drawing: - Three (3) or less absence. - All tasks should be accepted until the final submission deadline. - Student should get minimum 40 points. If ANY of the requirements are not fulfilled, the possibility of signature replacement is not provided! | | | | | |
| CONDITIONS FOR OFFERED GRADE MEGAJÁNLOTT JEGY MEGSZERZÉSÉNEK FELTÉTELEI | To get offered grade both the signature obtaining requirements of descriptive geometry and drawing disciplines must be fulfilled. | | | | | |
| | Drawing and descriptive geometry scores will be added up to get your overall score. | | | | | |
| CALCULATION OF THE OFFERED GRADE | 0-99 points | 100-139 points | 140-159 points | 160-179 points | 180-200 points | |
| | 1- INSUFFICENT | 2 - SUFFICENT | 3 - SATISFACTORY | 4 - GOOD | 5 - EXCELLENT | |
| REQUIREMENTS FOR EXAM APPLICATION | Those who doesn't accept the offered grade has the possibility to apply the exam. The application should be submitted in the NEPTUN site where the exam dates will be presented in the exam period. The exam is written and contains both disciplines. Application is accepted only for the students obtaining a signature (signature from previous semesters is accepted). Students will take the exam in one of the designated dates in the exam period presented in NEPTUN. The exam lasts 150 minutes per discipline with multiple tasks. Maximum scores are 100 points per discipline. | | | | | |
| CALCULATION OF THE | The exam will be insufficent if the student didn't get at least 50 points per discipline. The grades of the exam calculated by the method below: | | | | | |
| EXAM'S GRADE | 0-99 pont | 100-139 pont | 140-159 pont | 160-179 pont | 180-200 pont | |
| | 1- ELÉGTELEN | 2 - ELÉGSÉGES | 3 - KÖZEPES | 4 - JÓ | 5 - JELES | |

