

|    |    |  | Teaching and Learning Methods |  |                     |            |                 | Assessment Methods                                   |                         |                   |  |                       |                      |                      |
|----|----|--|-------------------------------|--|---------------------|------------|-----------------|--|-------------------------|-------------------|--|-----------------------|----------------------|----------------------|
|    |    | ELO  | Lecture at Classes            | Studio Discussion                                    | Workshop at Classes | Field Trip | Field Practices | Display/ Seminar                                     | Individual Presentation | Team Presentation | Discussion   | Individual Assignment | Team Assignment      | Exam                 |
| MC | 01 | Ability to imagine, think creatively, innovate and become a pioneer in the design    | C-04                          | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 | C-04                |            |                 | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 |                         |                   | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 | C-04                  | C-04                 | C-04                 |
|    | 02 | Ability to gather information, formulate problems, and analyze (Bachelor Competence) | C-16<br>C-22<br>C-38          | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 | C-16                | C-30       |                 | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 |                         | C-22<br>C-38      | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 | C-38<br>C-22<br>C-16  | C-16<br>C-22<br>C-38 | C-16<br>C-22<br>C-38 |
|    | 03 | Ability to think three-dimensionally in design exploration.                          | C-04                          | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35         | C-04                |            |                 | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35         |                         |                   | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35         | C-04                  | C-04                 | C-04                 |
|    | 04 | Ability to reconcile various factors, integrate knowledge and apply skills           |                               | C-05<br>C-11<br>C-18                                 |                     |            |                 | C-05<br>C-11<br>C-18                                 |                         |                   | C-05<br>C-11<br>C-18                                 |                       |                      |                      |

|     |  |   | Teaching and Learning Methods  |  |                     |              |                 | Assessment Methods                                   |                         |                   |  |  |                              |  |
|-----|--|---|--|--|---------------------|--------------|-----------------|--|-------------------------|-------------------|--|--|------------------------------|--|
| ELO |  |   | Lecture at Classes   | Studio Discussion                                    | Workshop at Classes | Field Trip   | Field Practices | Display/ Seminar                                     | Individual Presentation | Team Presentation | Discussion   | Individual Assignment  | Team Assignment              | Exam   |
|     |  | in the creation of a design solution  |  | C-24<br>C-30<br>C-35                                 |                     |              |                 | C-24<br>C-30<br>C-35                                 |                         |                   | C-24<br>C-30<br>C-35                                 |  |                              |  |
| 05  |  | Awareness of relevant legislation, technical guidelines and standards for the planning, design, construction, health, safety and the use of the built environment | C-12<br>C-19<br>C-25<br>C-31<br>C-36<br>C-20<br>C-21<br>C-26<br>C-33 | C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 |                     | C-26         | C-37            | C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 |                         | C-20              | C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 | C-12<br>C-19<br>C-25<br>C-31<br>C-36<br>C-21<br>C-20<br>C-26<br>C-33 | C-19<br>C-20<br>C-26<br>C-33 | C-12<br>C-19<br>C-25<br>C-31<br>C-36<br>C-20<br>C-21<br>C-26<br>C-33 |
| 06  |  | Technical knowledge of structure, materials, and construction   | C-06<br>C-12<br>C-19<br>C-25<br>C-31<br>C-36<br>C-13<br>C-20<br>C-26 |  |                     | C-20<br>C-26 |                 |  |                         | C-20              |  | C-06<br>C-12<br>C-19<br>C-25<br>C-31<br>C-36<br>C-13<br>C-20<br>C-26 | C-06<br>C-19<br>C-20<br>C-26 | C-06<br>C-12<br>C-19<br>C-25<br>C-31<br>C-36<br>C-13<br>C-20<br>C-26 |
| 07  |  | Understanding the process of technical design and the integration of structure, construction technologies,  | C-06<br>C-12<br>C-19<br>C-25   |  |                     | C-20<br>C-26 |                 |  |                         | C-20              |  | C-06<br>C-12<br>C-19<br>C-25   | C-06<br>C-19<br>C-20<br>C-26 | C-06<br>C-12<br>C-19<br>C-25   |

|     |    |   | Teaching and Learning Methods        |  |                     |            |                 | Assessment Methods   |                         |                      |  |                                      |                              |                                      |
|-----|----|---|--------------------------------------|--|---------------------|------------|-----------------|--|-------------------------|----------------------|--|--------------------------------------|------------------------------|--------------------------------------|
| ELO |    |   | Lecture at Classes                   | Studio Discussion  | Workshop at Classes | Field Trip | Field Practices | Display/ Seminar   | Individual Presentation | Team Presentation    | Discussion   | Individual Assignment                | Team Assignment              | Exam                                 |
|     |    | and system utilities to become effective functional unity   | C-31<br>C-36<br>C-13<br>C-20<br>C-26 |  |                     |            |                 |  |                         |                      |  | C-31<br>C-36<br>C-13<br>C-20<br>C-26 |                              | C-31<br>C-36<br>C-13<br>C-20<br>C-26 |
|     | 08 | Knowledge of the theory and design methods  | C-16<br>C-22<br>C-23<br>C-34         |  | C-16                |            |                 |  |                         | C-22<br>C-23<br>C-34 |  | C-22<br>C-16<br>C-23<br>C-34         | C-16<br>C-22<br>C-23<br>C-34 | C-16<br>C-22<br>C-23<br>C-34         |
|     | 09 | Understand the procedure and the design process   | C-03<br>C-22                         |  |                     |            |                 |  |                         | C-03<br>C-22         |  | C-03<br>C-22                         | C-03<br>C-22                 | C-03<br>C-22                         |
|     | 10 | Ability to act and to communicate ideas through collaboration, speaking, numeracy, writing, drawing, modeling and evaluation        |                                      | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 |                     |            |                 | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 |                         |                      | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 |                                      |                              |                                      |
|     | 11 | The ability to use manual, electronic, graphic and the model making capabilities to explore, develop, define and communicate design | C-17                                 | C-05<br>C-11<br>C-18<br>C-24<br>C-30                                 | C-17                |            | C-37            | C-05<br>C-11<br>C-18<br>C-24<br>C-30                                 |                         |                      | C-05<br>C-11<br>C-18<br>C-24<br>C-30                                 | C-17<br>C-37                         |                              |                                      |

|     |    |  | Teaching and Learning Methods |                              |                     |              |                 | Assessment Methods           |                         |                   |                              |                       |                 |                      |
|-----|----|--|-------------------------------|------------------------------|---------------------|--------------|-----------------|------------------------------|-------------------------|-------------------|------------------------------|-----------------------|-----------------|----------------------|
| ELO |    |  | Lecture at Classes            | Studio Discussion            | Workshop at Classes | Field Trip   | Field Practices | Display/ Seminar             | Individual Presentation | Team Presentation | Discussion                   | Individual Assignment | Team Assignment | Exam                 |
|     |    | proposals  |                               | C-35<br>C-40<br>C-39<br>C-41 |                     |              |                 | C-35<br>C-40<br>C-39<br>C-41 |                         |                   | C-35<br>C-40<br>C-39<br>C-41 |                       |                 |                      |
|     | 12 | Ability to develop scientific writings   | C-14                          | C-39                         |                     |              | C-37            | C-39                         |                         |                   | C-39                         | C-14<br>C-37          |                 | C-14                 |
|     | 13 | Understanding the professional ethics and code of ethics as applied in the practice of architecture and the legal responsibility of the architect where the architect registered or practicing | C-29                          |                              |                     |              |                 |                              |                         |                   |                              | C-29                  |                 | C-29                 |
|     | 14 | Understanding academic ethics  | C-03                          | C-39                         |                     |              |                 | C-39                         |                         | C-03              | C-39                         | C-03                  | C-03            | C-03                 |
|     | 15 | Understanding religious values in personal lives and society   | C-32                          |                              |                     |              | C-42            |                              |                         |                   |                              | C-32                  | C-32            | C-32                 |
|     | 16 | Understanding the role as a citizen, and are able to use national and international languages  | C-01<br>C-02<br>C-14          |                              |                     |              |                 |                              |                         |                   |                              | C-01<br>C-02<br>C-14  |                 | C-01<br>C-02<br>C-14 |
| SC  | 01 | Ability to act with knowledge of historical and  | C-08<br>C-15                  |                              |                     | C-08<br>C-15 |                 |                              |                         | C-08<br>C-15      |                              |                       | C-08<br>C-15    | C-08<br>C-15         |

|     |   |   | Teaching and Learning Methods                        |                   |                     |            |  | Assessment Methods |                         |  |              |                       |                 |      |
|-----|---|---|--|-------------------|---------------------|------------|--|--------------------|-------------------------|--|--------------|-----------------------|-----------------|------|
| ELO |   |   | Lecture at Classes                                   | Studio Discussion | Workshop at Classes | Field Trip | Field Practices                                      | Display/ Seminar   | Individual Presentation | Team Presentation                                    | Discussion   | Individual Assignment | Team Assignment | Exam |
|     |   | cultural precedents in local and world architecture |  |                   |                     |            |  |                    |                         |  |              |                       |                 |      |
| 02  | Ability to design that applies the knowledge of art and its influence on the quality of architectural design              | C-04<br>C-10  | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 | C-04              |                     |            | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 |                    |                         | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40 | C-04<br>C-10 | C-04<br>C-10          | C-04            |      |
| 03  | Understanding the issues of cultural heritage in the built environment  | C-08  |  |                   | C-08                |            |  |                    | C-08                    |  |              | C-08                  | C-08            |      |
| 04  | Awareness of the links between architecture and other creative disciplines  | C-04<br>C-10  |  | C-04              |                     |            |  |                    |                         |  | C-04<br>C-10 | C-04<br>C-10          | C-04            |      |
| 05  | Ability to act with knowledge about society, and to work with clients and users that represent society's needs            | C-29  |  |                   |                     | C-37       |  |                    |                         |  | C-29<br>C-37 |                       | C-29            |      |
| 06  | Ability to compose TOR for projects through the definition of user needs, both the community and clients, and to research | C-16<br>C-27  | C-18   | C-16              |                     |            | C-18   |                    |                         | C-18   | C-16<br>C-27 | C-16                  | C-16<br>C-27    |      |

|     |  | Teaching and Learning Methods  |                              |                     |            |                 | Assessment Methods |                         |                   |            |                              |                      |                              |  |
|-----|--|--|------------------------------|---------------------|------------|-----------------|--------------------|-------------------------|-------------------|------------|------------------------------|----------------------|------------------------------|--|
| ELO |  | Lecture at Classes   | Studio Discussion            | Workshop at Classes | Field Trip | Field Practices | Display/ Seminar   | Individual Presentation | Team Presentation | Discussion | Individual Assignment        | Team Assignment      | Exam                         |  |
|     |  | and define contextual and functional requirements for different types of built environment   |                              |                     |            |                 |                    |                         |                   |            |                              |                      |                              |  |
| 07  |  | Understanding the social context where the built environment exist, ergonomic and space requirements and issues of equity and access   | C-09<br>C-28                 |                     |            |                 |                    |                         |                   |            | C-09<br>C-28                 | C-09<br>C-28         | C-28                         |  |
| 08  |  | Ability to act with knowledge of natural systems and built environments  | C-09                         |                     |            | C-37            |                    |                         |                   |            | C-09<br>C-37                 | C-09                 | C-09                         |  |
| 09  |  | Understanding the issues of conservation and waste management  | C-26                         |                     |            | C-26            |                    |                         |                   |            | C-26                         | C-26                 | C-26                         |  |
| 10  |  | Understanding the recycling of materials, issues of ecological sustainability, environmental impacts, design for reduced use of energy, passive systems, and energy management | C-09<br>C-20<br>C-21<br>C-26 | C-24                |            | C-20<br>C-26    | C-24               |                         |                   | C-24       | C-09<br>C-21<br>C-20<br>C-26 | C-09<br>C-20<br>C-26 | C-09<br>C-21<br>C-20<br>C-26 |  |

|     |  |                      | Teaching and Learning Methods |                   |                     |            |                              | Assessment Methods |                         |                              |                              |                       |                      |      |
|-----|--|----------------------|-------------------------------|-------------------|---------------------|------------|------------------------------|--------------------|-------------------------|------------------------------|------------------------------|-----------------------|----------------------|------|
| ELO |  |                      | Lecture at Classes            | Studio Discussion | Workshop at Classes | Field Trip | Field Practices              | Display/ Seminar   | Individual Presentation | Team Presentation            | Discussion                   | Individual Assignment | Team Assignment      | Exam |
| 11  | Awareness of the history and practice of landscape architecture, urban design, regional and national planning, and their relationship to local and global demography and resources | C-08<br>C-15<br>C-28 | C-18<br>C-30                  |                   | C-08<br>C-15        |            | C-18<br>C-30                 |                    |                         | C-18<br>C-30                 | C-08<br>C-15<br>C-28         | C-08<br>C-15<br>C-28  | C-08<br>C-15<br>C-28 |      |
| 12  | Awareness about management of natural systems into the risk of natural disasters   | C-09<br>C-25         | C-24<br>C-30                  |                   |                     |            | C-24<br>C-30                 |                    |                         | C-24<br>C-30                 | C-09<br>C-25                 | C-09<br>C-25          | C-09<br>C-25         |      |
| 13  | Understanding utility systems, systems of transportation, communication, maintenance and safety of the building  | C-25<br>C-26         | C-11<br>C-18<br>C-24<br>C-30  |                   | C-26                | C-37       | C-11<br>C-18<br>C-24<br>C-30 |                    |                         | C-11<br>C-18<br>C-24<br>C-30 | C-25<br>C-26<br>C-37         | C-26<br>C-37          | C-25<br>C-26         |      |
| 14  | Awareness of the role of technical documentation and specifications in the implementation of the design and construction process, cost planning and control                        | C-19<br>C-25<br>C-27 | C-24<br>C-30                  |                   |                     | C-37       | C-24<br>C-30                 |                    |                         | C-24<br>C-30                 | C-19<br>C-25<br>C-27<br>C-37 | C-19                  | C-19<br>C-25<br>C-27 |      |

|     |  |                              | Teaching and Learning Methods                |                   |                     |            |  | Assessment Methods |                         |  |              |                              |                      |                              |
|-----|--|------------------------------|--|-------------------|---------------------|------------|--|--------------------|-------------------------|--|--------------|------------------------------|----------------------|------------------------------|
| ELO |  |                              | Lecture at Classes                           | Studio Discussion | Workshop at Classes | Field Trip | Field Practices                              | Display/ Seminar   | Individual Presentation | Team Presentation                            | Discussion   | Individual Assignment        | Team Assignment      | Exam                         |
| 15  | Ability to act with innovative technical competence in the use of building techniques and the understanding of their evolution | C-20<br>C-36                 |  |                   |                     | C-20       |  |                    |                         |  |              | C-36<br>C-20                 | C-20                 | C-36<br>C-20                 |
| 16  | Knowledge of design precedents and architectural criticism   | C-22<br>C-38                 | C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 |                   |                     |            | C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 |                    | C-22                    | C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41 | C-22<br>C-38 | C-22<br>C-38                 | C-22<br>C-38         |                              |
| 17  | Ability to act with knowledge of professional context, business, finance and law   | C-27<br>C-29                 |  |                   |                     | C-37       |  |                    |                         |  |              | C-27<br>C-29<br>C-37         | C-27                 | C-27<br>C-29                 |
| 18  | Ability to understand different forms of procurement of architectural services   | C-27<br>C-29                 |  |                   |                     | C-37       |  |                    |                         |  |              | C-27<br>C-29<br>C-37         | C-27                 | C-27<br>C-29                 |
| 19  | Awareness of construction and development industry work, financial dynamics, real estate investment, and facilities management | C-27<br>C-29<br>C-28<br>C-33 |  |                   |                     | C-37       |  |                    |                         |  |              | C-27<br>C-29<br>C-28<br>C-37 | C-27<br>C-28<br>C-33 | C-27<br>C-29<br>C-28<br>C-33 |



|       |   |                      | Teaching and Learning Methods        |                   |                     |            |                                      | Assessment Methods |                         |                                      |                              |                       |                      |      |
|-------|---|----------------------|--------------------------------------|-------------------|---------------------|------------|--------------------------------------|--------------------|-------------------------|--------------------------------------|------------------------------|-----------------------|----------------------|------|
| ELO   |   |                      | Lecture at Classes                   | Studio Discussion | Workshop at Classes | Field Trip | Field Practices                      | Display/ Seminar   | Individual Presentation | Team Presentation                    | Discussion                   | Individual Assignment | Team Assignment      | Exam |
| 20    | Awareness of the potential role of architects in conventional activities and new fields of activity, as well as in the international context                      | C-03<br>C-27<br>C-29 |                                      |                   |                     | C-37       |                                      |                    | C-03                    |                                      | C-03<br>C-27<br>C-29<br>C-37 | C-03<br>C-27          | C-03<br>C-27<br>C-29 |      |
| 21    | Understanding the business principles and their application to the development of the built environment, project management and professional consultants function | C-27<br>C-29         |                                      |                   |                     | C-37       |                                      |                    |                         |                                      | C-27<br>C-29<br>C-37         | C-27                  | C-27<br>C-29         |      |
| 22    | Understanding the systems of evaluation, that use manual and / or electronic method for assessing the performance of the built environment                        | C-21                 | C-35<br>C-40                         |                   |                     |            | C-35<br>C-40                         |                    |                         | C-35<br>C-40                         | C-21                         |                       | C-21                 |      |
| UC 01 | Able to do design research  |                      | C-18<br>C-24<br>C-30<br>C-35<br>C-40 |                   |                     |            | C-18<br>C-24<br>C-30<br>C-35<br>C-40 |                    |                         | C-18<br>C-24<br>C-30<br>C-35<br>C-40 |                              |                       |                      |      |

|     |   |  | Teaching and Learning Methods |  |                     |            | Assessment Methods |  |                         |                   |  |                       |                 |      |
|-----|---|--|-------------------------------|--|---------------------|------------|--------------------|--|-------------------------|-------------------|--|-----------------------|-----------------|------|
| ELO |   |  | Lecture at Classes            | Studio Discussion  | Workshop at Classes | Field Trip | Field Practices    | Display/ Seminar   | Individual Presentation | Team Presentation | Discussion   | Individual Assignment | Team Assignment | Exam |
|     |   |  |                               | C-39<br>C-41   |                     |            |                    | C-39<br>C-41   |                         |                   | C-39<br>C-41   |                       |                 |      |
| 02  | Master the skill of designing based on scientific or quasi-scientific studies   |  |                               | C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41         |                     |            |                    | C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41         |                         |                   | C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-39<br>C-41         |                       |                 |      |
| 03  | Understand and apply basic research methods of architecture, including research design, data analysis, and interpretation |  |                               | C-39   |                     |            |                    | C-39   |                         |                   | C-39   |                       |                 |      |
| 04  | Able to create a design study of the complete field of architecture   |  |                               | C-39   |                     |            |                    | C-39   |                         |                   | C-39   |                       |                 |      |
| 05  | Able to do publicity work through exhibitions, web, or seminar  |  | C-04                          | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-39<br>C-41 |                     |            |                    | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-39<br>C-41 |                         |                   | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-39<br>C-41 | C-04                  | C-04            | C-04 |

|     |   |                                      | Teaching and Learning Methods                                |                   |                     |            |  | Assessment Methods |                         |  |                                      |                                      |                                      |      |
|-----|---|--------------------------------------|--|-------------------|---------------------|------------|--|--------------------|-------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|------|
| ELO |   |                                      | Lecture at Classes   | Studio Discussion | Workshop at Classes | Field Trip | Field Practices  | Display/ Seminar   | Individual Presentation | Team Presentation  | Discussion                           | Individual Assignment                | Team Assignment                      | Exam |
| 06  | Understanding the architectural drawing system to image detail and is capable of using design software and the supporters | C-19<br>C-25<br>C-31<br>C-17         | C-24<br>C-30   | C-17              |                     | C-37       | C-24<br>C-30   |                    |                         | C-24<br>C-30   | C-19<br>C-25<br>C-31<br>C-17<br>C-37 | C-19<br>C-25<br>C-31                 | C-19<br>C-25<br>C-31                 |      |
| 07  | Understand and able to prepare Budget Plan and Bill of Quantities (RKS)   | C-19<br>C-25<br>C-07                 | C-30   |                   |                     | C-37       | C-30   |                    |                         | C-30   | C-19<br>C-25<br>C-07<br>C-37         | C-19<br>C-25                         | C-19<br>C-25<br>C-07                 |      |
| 08  | Possession of good soft skills (leadership, teamwork, integrity, discipline, conflict management, to network)             |                                      | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-41 |                   |                     | C-37       | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-41 |                    |                         | C-05<br>C-11<br>C-18<br>C-24<br>C-30<br>C-35<br>C-40<br>C-41 | C-37                                 |                                      |                                      |      |
| 09  | Having entrepreneurship skills  | C-27                                 |  |                   |                     |            |  |                    |                         |  | C-27                                 | C-27                                 | C-27                                 |      |
| 10  | Fast learners to update the science and technology  | C-12<br>C-19<br>C-25<br>C-31<br>C-36 | C-05<br>C-11<br>C-18<br>C-24<br>C-30                         | C-17              | C-20<br>C-26        |            | C-05<br>C-11<br>C-18<br>C-24<br>C-30                         |                    | C-22                    | C-05<br>C-11<br>C-18<br>C-24<br>C-30                         | C-12<br>C-19<br>C-25<br>C-31<br>C-36 | C-12<br>C-19<br>C-25<br>C-31<br>C-36 | C-12<br>C-19<br>C-25<br>C-31<br>C-36 |      |

