## SYLLABUS

## 1. Information about the program

| 1.1 Higher education institution | UNIVERSITY POLITEHNICA OF TIMISOARA |
| :--- | :--- |
| 1.2 Faculty $^{1} /$ Department $^{2}$ | ELECTRONICS, TELECOMUNICATON AND INFORMATION <br> TECHNOLOGIES/Automation and Applied Informatics Department |
| 1.3 Field of study $\left(\right.$ name/code $^{3}$ ) | ELECTRONIC ENGINEERING, TELECOMUNICATION AND <br> INFORMATION TECHNOLOGIES |
| $\mathbf{1 . 4}$ Study cycle | License |
| $\mathbf{1 . 5}$ Study program (name/code/qualification) | TST-ENG/20/20/10/100/10/TST-ENG |

## 2. Information about the discipline

| 2.1 Name of discipline/ formative category ${ }^{4}$ |  |  | Programming Language 2 / DF |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.2 Coordinator (holder) of course activities |  |  | Assoc.Prof. Loredana STANCIU |  |  |  |  |
| 2.3 Coordinator (holder) of applied activities ${ }^{5}$ |  |  | Eng. Mădălina Petrici |  |  |  |  |
| 2.4 Year of study ${ }^{6}$ | 2 | 2.5 Semester | 3 | 2.6 Type of evaluation | D | 2.7 Regime of discipline ${ }^{7}$ | DI |

3. Total estimated time - hours / semester: direct teaching activities (fully assisted or partly assisted) and individual training activities (unassisted) ${ }^{8}$

| 3.1 Number of fully assisted hours / week | 4 of which: | 3.2 course | 2 | 3.3 seminar / laboratory / project | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3.1* Total number of fully assisted hours / semester | 56 of which: | 3.2* course | 28 | 3.3* seminar / laboratory / project | 28 |
| 3.4 Number of hours partially assisted / week | of which: | 3.5 training |  | 3.6 hours for diploma project elaboration |  |
| 3.4* Total number of hours partially assisted / semester | of which: | 3.5* training |  | 3.6* hours for diploma project elaboration |  |
| 3.7 Number of hours of unassisted activities / week | $3.14 \text { of }$ which: | additional documentary hours in the library, on the specialized electronic platforms and on the field |  |  | 1 |
|  |  | hours of individual study after manual, course support, bibliography and notes |  |  | $\begin{aligned} & 0.6 \\ & 4 \\ & \hline \end{aligned}$ |
|  |  | training seminars / laboratories, homework and papers, portfolios and essays |  |  | 1.5 |
| 3.7* Number of hours of unassisted activities / semester | 44 of which: | additional documentary hours in the library, on the specialized electronic platforms and on the field |  |  | 14 |
|  |  | hours of individual study after manual, course support, bibliography and notes |  |  | 9 |
|  |  | training seminars / laboratories, homework and papers, portfolios and essays |  |  | 21 |
| 3.8 Total hours / week ${ }^{9}$ | 7.14 |  |  |  |  |
| 3.8* Total hours /semester | 100 |  |  |  |  |
| 3.9 Number of credits | 4 |  |  |  |  |

4. Prerequisites (where applicable)

| 4.1 Curriculum | • Programming Language 1 |
| :--- | :--- |

[^0]5. Conditions (where applicable)

| $\mathbf{5 . 1}$ of the course | • Class room with projector, whiteboard, Internet connection |
| :--- | :--- |
| $\mathbf{5 . 2}$ to conduct practical activities | - Laboratory with $\max 20$ computers, Java SDK 11 or later version, NetBeans |

6. Specific competencies acquired through this discipline

| Specific <br> competencies | - Ability to understand fundamental concepts in web programming <br> - Ability to create medium-level complexity programs in HTML language (which is the fundamental language of <br> the World Wide Web), Javascript, and ASP.NET |
| :--- | :--- |
| Professional <br> competencies <br> ascribed to the <br> specific <br> competencies | - 3. Application of knowledge, concepts and basic methods related to computer system <br> architecture, microprocessors, microcontrolers, programming languages and techniques. |
| Transversal <br> competencies <br> ascribed to the <br> specific <br> competencies | -1. Methodical analysis of field-related problems aimed at identifying acknowledged solutions, thus <br> ensuring the accomplishment of professional tasks. <br> 3. Adaptation to new technologies, professional and personal development through continuous <br> Romanian and at least one foreign language. specialized software and electronic resources in |

7. Objectives of the discipline (based on the grid of specific competencies acquired - pct.6)

| 7.1The general objective of the <br> discipline | - Acquiring basic concepts in web programming |
| :--- | :--- |
| 7.2 Specific objectives | - Design and implementation of web pages, medium level of difficulty |

## 8. Content ${ }^{10}$

| 8.1 Course | Number of hours | Teaching methods ${ }^{11}$ |
| :---: | :---: | :---: |
| 1. HTML |  | Presentation of the theoretical aspects based on PowerPoint slides, discussions, examples All he course resources can be found on the UPT Virtual Campus course's page |
| a. Basic elements | 3 |  |
| b. Lists, tables, links | 2 |  |
| c. Images, sounds and videos | 2 |  |
| d. Frames | 1 |  |
| e. Forms | 2 |  |
| f. Cascading style sheets | 3 |  |
| 2. Javascript |  |  |
| a. Basic elements, variables, functions, instructions | 2 |  |
| b. Events, access to the elements | 2 |  |
| c. Objects | 2 |  |
| 3. ASP.NET |  |  |
| a. Introduction, page structure | 1 |  |

[^1]
9. Corroboration of the content of the discipline with the expectations of the main representatives of the epistemic community, professional associations and employers in the field afferent to the program

- Knowledge and programming skills offered by the course's content provide a plus to future engineers, enriching their knowledge and skills they have already acquired in other courses from the curricula.
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## 10. Evaluation

| Type of activity | $\mathbf{1 0 . 1}$ Evaluation criteria ${ }^{15}$ | $\mathbf{1 0 . 2}$ Evaluation methods | $\mathbf{1 0 . 3}$ Share of the <br> final grade |
| :--- | :--- | :--- | :--- |
| $\mathbf{1 0 . 4}$ Course | Multiple choice tests with <br> 30 questions, each one | Written test | $66,67 \%$ |

[^2]|  | having five possible answers, only one correct. |  |  |
| :---: | :---: | :---: | :---: |
| 10.5 Applied activities | S: |  |  |
|  | L: Two tests, containing problems similar with the ones solved during the laboratories. The final mark will be the average of the test's marks. | Running code on the computer | 33,33\% |
|  | $\mathrm{P}^{16}$ : |  |  |
|  | Pr: |  |  |
| 10.6 Minimum performance standard (minimum amount of knowledge necessary to pass the discipline and the way in which this knowledge is verified ${ }^{17}$ ) |  |  |  |
| - At the exam: 50\% correct answers <br> - At the laboratory: create a web page containing basic Html elements, images, frames, forms and Javascritps |  |  |  |

## Date of completion

## Course coordinator <br> (signature)

## Coordinator of applied activities <br> (signature)

21.07.2023

## Head of Department (signature)

Date of approval in the Faculty Council ${ }^{18}$

14.09.2023

[^3]
[^0]:    ${ }^{1}$ The name of the faculty which manages the educational curriculum to which the discipline belongs
    ${ }^{2}$ The name of the department entrusted with the discipline, and to which the course coordinator/holder belongs.
    ${ }^{3}$ The code provided in HG - on the approval of the Nomenclature of fields and specializations / study programs, annually updated.
    ${ }^{4}$ Discipline falls under the educational curriculum in one of the following formative disciplines: Basic Discipline (DF), Domain Discipline (DD), Specialist Discipline (DS) or Complementary Discipline (DC).
    ${ }^{5}$ Application activities refer to: seminar (S) / laboratory (L) / project (P) / practice/training (Pr).
    ${ }^{6}$ Year of studies in which the discipline is provided in the curriculum.
    ${ }^{7}$ Discipline may have one of the following regimes: imposed discipline (DI) or compulsory discipline (DOb)-for the other fundamental fields of studies offered by UPT, optional discipline (DO) or optional discipline (Df).
    ${ }^{8}$ The number of hours in the headings $3.1^{*}, 3.2^{*}, \ldots, 3.8^{*}$ is obtained by multiplying by 14 (weeks) the number of hours in headings $3.1,3.2, \ldots, 3.8$. The information in sections $3.1,3.4$ and 3.7 is the verification keys used by ARACIS as: $(3.1)+(3.4) \geq 28$ hours / wk. and (3.8) 40 hours / wk.
    ${ }^{9}$ The total number of hours / week is obtained by summing up the number of hours in points 3.1, 3.4 and 3.7.

[^1]:    ${ }^{10}$ It details all the didactic activities foreseen in the curriculum (lectures and seminar themes, the list of laboratory works, the content of the stages of project preparation, the theme of each practice stage). The titles of the laboratory work carried out on the stands shall be accompanied by the notation "(*)".
    ${ }^{11}$ Presentation of the teaching methods will include the use of new technologies (e-mail, personalized web page, electronic resources etc.).

[^2]:    ${ }^{12}$ At least one title must belong to the discipline team and at least one title should refer to a reference work for discipline, national and international circulation, existing in the UPT library.
    ${ }^{13}$ Types of application activities are those specified in footnote 5 . If the discipline contains several types of applicative activities then they are sequentially in the lines of the table below. The type of activity will be in a distinct line as: "Seminar:", "Laboratory:", "Project:" and / or "Practice/training".
    ${ }^{14}$ At least one title must belong to the discipline team.
    ${ }^{15}$ Syllabus must contain the procedure for assessing the discipline, specifying the criteria, methods and forms of assessment, as well as specifying the weightings assigned to them in the final grade. The evaluation criteria shall be formulated separately for each activity foreseen in the curriculum (course, seminar, laboratory, project). They will also refer to the forms of verification (homework, papers, etc.)

[^3]:    ${ }^{16}$ In the case where the project is not a distinct discipline, this section also specifies how the outcome of the project evaluation makes the admission of the student conditional on the final assessment within the discipline.
    ${ }^{17}$ It will not explain how the promotion mark is awarded.
    ${ }^{18}$ The endorsement is preceded by the discussion of the board's view of the study program on the discipline record.

