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| **Bachelor project 2017/2018** | | | | | | | | |
| **Education** | | | | | | Pb. WEB | | |
| **Semester** | | | | | | Pb Web 3rd semester | | |
| **Class** | | | | | | Ukpbw16a3  Ukpbw16b3 | | |
| **Teachers in charge** | | | | | | Per Toft (PETO@iba.dk)  Malene Patsche Kjeldsen (MPKJ@iba.dk)  Christian Bruhn (chbr@iba.dk)  Niels Muller Larsen (nmla@iba.dk)  Bastiaan Degen (bjde@iba.dk | | |
| **Time period** | | | | | | 31th of October 2017 - 18th December 2017 | | |
| **Language** | | | | | | English / Danish | | |
| **Hand in** | | | | | | **Main thesis**:  Hand in no later than Monday 18th of December at 12:00 noon.   Please notice:  Hand-in will be electronically through WISEFLOW at iba.wiseflow.dk  Both the report (with the standard IBA front page) and all files related to the project must be uploaded. Any web solution should be made available online.  For information on how to use Wise-flow, please read the instructions on BlackBoard in the 7-WEB-info - > Exam - > 3rd semester | | |
| **Available material** | | | | | | Project description on Blackboard  All materials and all literature from the web development courses. | | |
| **Subjects involved in the project** | | | | | | The final bachelor project should include key issues in web development and should be made in collaboration with a company (for instance the internship company) or as an entrepreneur project by establishing own company. | | |
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| **Assessment and feedback** | | | | | | An individual mark is given based on a holistic evaluation of the report, product (if appropriate), presentation and individual examination. | | |
| **Attendance** | | | | | | Attendance is mandatory | | |
| **Consequences if not passed** | | | | | | The project is mandatory and must be passed with a grade of minimum 02.  If the mark 02 or greater is NOT achieved the main thesis must be adjusted according to instructions from your supervisor and the student must attend re-exam | | |
|  | | **Group project** | | | | | | |
|  | | Yes | | | **Groups are formed by the [Students / Teachers]** | | | | |
| 1-3 | | | **Students per group** | | | | |
| **Project program & important deadlines** | | | | | | | | | |
| Date | | | Time | | | | Activity | |
| Wednesday 12th of October | | | 14:00 | | | | Kick-off | |
| Friday 3th of November | | | 12:00 | | | | 1. Deliver synopsis (groups deliver 1 synopsis)  2. Email your synopsis including group’s composition to Bastiaan Degen (bjde@iba.dk).  3. You may ask for a specific teacher if he/she can be your supervisor, otherwise a supervisor will be appointed to you. | |
| Wednesday 8th of November | | | 12:00 | | | | 1. Present synopsis for 5 minutes per group/student, after presentation groups/students will be assigned to a supervisor.  2. The groups/student will be assigned a supervisor. See the document on Blackboard in 7-WEB-info -> Exam -> 3rd semester | |
| 8th November till  13th December | | |  | | | | Meetings with supervisors.  The meetings are voluntary - but highly encouraged.  The student is responsible for emailing possible meeting dates and topics to be discussed at the meeting to the supervisor.   A maximum of 10 pages can be submitted for review for each meeting, and a total of 30 pages combined will be reviewed. | |
| Monday 18th of December | | | 12:00 | | | | Hand in | |
| January 2018 | | |  | | | | Exams (specific dates will be provided after hand in) | |
| **Project description** | | | | | | | | | |
| The student must have passed all previous tests to take the final exam. In the final bachelor project, the student must demonstrate the ability, on an analytical and methodical basis, to process a complex and practice-related problem to a specific task in the IT field.  The final bachelor project should include key issues in web development. The student, in consultation with the institution, formulates the topic for the final bachelor project.  The project must be made in cooperation with a company or as an entrepreneur project by starting own company. The institution (supervisor) approves the formulation.  The project results in a report and if appropriate a product.  The report, which form the written part of the exam, should as a minimum include:   * Front page with title * Table of contents * Introduction and problem formulation * Method * Analysis * Solution * Conclusion * List of references (incl. all references, which there are referred to in the project) * Appendix (only include appendix, which is central to the report). | | | | | | | | | |
| **Learning objectives** | | | | | | | | | |
| The final thesis exam has to document that the student has reached graduation level according to appendix 1 in executive order no. 1147 of October 23rd 2014 on Bachelor degree program (BSc) for Web Development.  **Knowledge**   * The objective is that the student gain knowledge about: * World Wide Web formal and de facto standards * World Wide Web standards as a platform for applications * XML family's role in both data warehousing and application development * Normal development environments for web development * Content Management Systems * The roles of web applications in society and its development * Widespread development methods from the domain and can reflect on their suitability in different development situations   **Skills**  The objective is that the student has skills to:   * Select appropriate and suitable object - oriented programming languages to implement the development aspirations * Select an appropriate and suitable database system to ensure coherence in both data and application. * Design of appropriate interfaces adapted to relevant target groups on the basis of the theories and methods of the field * Utilization of the World Wide Web special design and aesthetic possibilities * Documenting the functionality and development process of a project with relation to the target group and scope of project * Apply the functionality of a development environment in the implementation of the development process   **Competences**   * The objective is that the student has the competence to: * Analyse, plan and develop applications based on specific development aspirations * Analyse and plan expansions in the framework of existing systems * Identify needs for their own learning in relation to a proposed development process * Implement development in light of the analysis and planning carried out * Co-operate professionally on the implementation of development processes | | | | | | | | | |
| **Form – hand in** | | | | | | | | | |
|  | | | | **Scope** | | | | **Weighing** |
| x | Report | | | The bachelor project is handed in electronically through WISE-flow.  Report excl. appendix must have a scope of maximum 20 standard pages and an additional 20 pages per student.  The report is assessed individually, which means that it must clearly appear in the report who is responsible for the individual parts.  Basis for the individual oral part of the examination it is the entire report.  One standard page is 2.400 keystrokes including spaces and footnotes.  A group of:  1 person -> max. 40 normal pages.  2 persons -> max. 60 normal pages.  3 persons -> max. 80 normal pages.  Use the formal front page for the report (available on Blackboard)  NOTE!!! Excluded from page count are:   * Front page with title * Table of contents * List of references * Appendix | | | | Holistic evaluation of the product(s) and report |
| x | Product | | | If the project includes a product then it can for example, be a program, system, an analysis or a study.  In case your project contains a web solution, it should be made available online and the URL to the website should be supplied. | | | | Holistic evaluation of the product(s) |
| **Assessment criteria** | | | | | | | | | |
| Assessment criteria are the learning objectives for the exam, see section above: Learning objectives.   * Is there a clear connection between the problem definition and the solutions presented in the project? * Does the project follow the formal project requirements? * Do the project, report and examination show that the student has covered the learning objectives from the curriculum? * Has the project been carried out with a critical and methodical approach? * Does the report have a “red thread”, and does it clearly describe the progress of the project? (e.g. through sub conclusions and summaries) * Are statements, images, graphs, statistics etc. supported by valid references? (Citation and Bibliography) * Is the oral presentation (exam) of the project clear, informative and dynamic?   **Spelling and writing skills**  Spelling and writing skills will be part of the assessment criteria for the final exam project.  The assessment is expressed as an overall assessment of the professional and academic content as well as the student's spelling and writing skills. However, the academic content has priority in this overall assessment.  Students may apply for an exemption from the requirement that spelling and writing skills form part of the assessment criteria if the application is verified by physical or mental impairment.  The application should be submitted to the programme and directed to the attention of the programme director not later than 4 weeks before the exam is to be held. | | | | | | | | | |
| **Exam** | | | | | | | | | |
| The final project exam consists of a project part and an oral part.  The exam cannot be completed until all other exams have been passed – including the internship exam.  One grade is given to cover all elements of the exam. The oral examination is based on the main thesis report and product(s) handed in.  The supervisor and an external examiner will conduct the exam. An individual oral defence lasting 30 minutes per student examines the bachelor project.  If students make the bachelor project in groups, the exam is conducted for each student individually.  The exam consists of the following:   * Max. 10 minutes presentation by the student * 10 - 15 minutes examination dialogue * 5- 10 minutes assessment.   A single grade is given to each individual on the basis of the project and the oral examination. | | | | | | | | | |