

Content

Course Code	Course Name	Semester	Theory	Practice	Lab	Credit	ECTS
CO-E 682	Digital media management	1	3	0	0	3	6

Prerequisites	
Admission Requirements	

Language of Instruction	Turkish
Course Type	Compulsory
Course Level	Masters Degree
Objective	As being a popular topic in integrated marketing communications management in recent years, usability can be defined as “the extent to which a product can be used by specified users to achieve specified goals with effectiveness, efficiency, and satisfaction in a specified context of use”. Recent studies show that the average business metrics improvement – ROI- after a usability redesign is 83%. In this context, it is crucial for the digital media professionals to acquire an extensive knowledge /skill set in order to manage user-research integrated design and development processes. This course aims to provoke the awareness on relevant themes and to provide knowledge and skills to analyze a user interface with solid guidelines.
Content	1. Week: Introduction 2. Week: Key Concepts ! A Historical Overview: - o Human-Computer Interaction (HCI) - o Graphical User Interface (GUI) - o Natural User Interface (NUI) ! Usability - o Why does usability matter? - o An overview on e-commerce ecosystem through the usability perspective - o How do we measure usability? ! User Experience (UX) - o UX as a phenomenon ? User Diversity vs. Technological Diversity ? UX in the New Cross-Channel World ? UX in the New Multi-Screen world ? Good UX: Context/Convenience vs. Taste/Appeal - o Ux as part of organizations ? Organizational challenges ? Organizational goals - o UX as a profession ? New Roles and Responsibilities ! UX as a process - o Evolution of Design Processes: Waterfall vs. Agile vs. Lean UX - o A New UX Centered Design and Development Process based on Iterative Workflow 3. Week: Universal Usability: Key Concepts, Guidelines, Standarts ! Web for All? - o User Diversity - o Technological Diversity ! Strategies for Universal Usability

	- o Web Accessibility and Assistive Technologies - o Universal Design 4. Week: Culturalization and “Global Digital Media” - Internationalization - Localization - Parameters to design “Global Digital Media” - Case Studies 5. Week: Investigating User Interface Design through Usability: Patterns and Guidelines - Information Architecture - o Organizing Information - o Presenting the Information Architecture - o Search Engine Optimization (SEO) Studio Session: UI Analysis 6. Week: Investigating User Interface Design through Usability: Patterns and Guidelines - Page Structure and Design for Desktop Environments Studio Session: UI Analysis 7. Week: Investigating User Interface Design through Usability: Patterns and Guidelines - Page Structure and Design for Mobile Environments Studio Session: UI Analysis 8. Week: Investigating User Interface Design through Usability: Patterns and Guidelines - Use of Typography, Graphics and Multimedia in UI Design Studio Session: UI Analysis 9. Week: Investigating User Interface Design through Usability: Patterns and Guidelines - Form Design Studio Session: UI Analysis 10. – 14. Week: Presentation of the Case Analysis
References	1 Key Concepts ? Brown, T. (2008) Design Thinking, Harvard Business Review, June. ? Nielsen, J. (2012) Usability 101: Introduction to Usability, http://www.nngroup.com/articles/usability-101-introduction-to-usability/ ? User Experience White Paper: Bringing Clarity to the Concept of User Experience (2011) ? Grudin, J. (2008) A Moving Target: The Evolution of HCI, in The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies and Emerging Applications (Edi.) Sears, A and Jacko, J. A. , Lawrence Erlbaum Associates, Taylor and Francis Group. 1-24. ? Carrol, J. M. (2012) Human-Computer Interaction, Encyclopedia of Human-Computer Interaction, http://www.interaction-design.org/encyclopedia/human_computer_interaction_hci.html ? Shneidermann, B. and Plaisant, C. (2005) Designing the User Interface 4th Edition,

Addison-Wesley.

? Zaphiris, P. and Siang Ang, C. (2009) Human-Computer Interaction: Concepts, Methodologies, Tools and Applications, Information Science Reference, Hershey, New York.

? Nielsen, J., 2008, Usability ROI Declining, But Still Strong, <http://www.useit.com/alertbox/roi.html>

? Shneiderman, B., 2011, The Next 25 Years of HCI Research: Technology-Mediated Social Participation, HCI2011 Keynote Speech

? UXPA (Usability Professionals Association), www.uxpa.com

? Mesut, J., 2009, Brighton BarCamp

? Knemeyer, D. and Svoboda, E., 2008 User Experience _ UX, www.interaction.gov.tr

? Andersen, S., P. 2008, Fundamentals of Experience Design, www.poetpainter.com

? Morville, P., 2004, User Experience Design, www.semanticstudios.com

? Raabe, P., 2010, User-Centered Design, www.paznow.com

? Revang, M., 2007, User Experience Design Project

? Brown, T., 2008, Design Thinking, Harvard Business Review

? Reichenstein, O., 2009, The Spectrum of User Experience, iA, www.informationarchitects.jp

? Marsh, N., 2011, Service Design is Dead. The New Product is Alive, www.choose.nick.com

? Nielsen, J., 2006, Corporate Usability Maturity: Stages 1-4, www.alertbox.com

? Nielsen, J., 2006, Corporate Usability Maturity: Stages 5-8, www.alertbox.com

? www.usabilitycounts.com, 2012

? UX Professionalism: Building Tomorrows' Digital Cathedrals, 2012

? Jeff Gothelf, Lean UX: Getting Out Of The Deliverables Business, 2011,

<http://uxdesign.smashingmagazine.com/2011/03/07/lean-ux-getting-out-of-the-deliverables-business/>

? Wreblovski, L., 2011, An Event Apart: Persuasive Design, www.lukew.com

? Høgenhaug, P. S., 2012, Gamification and UX: Where Users Win or Lose, Smashing Magazine.

? Wreblovski, L., 2012, Luke Wreblovski, Evolving E-Commerce Checkout.

? The New Multi-Screen World: Understanding Cross-Platform Consumer Behavior, /Ipsos/Sterling, 2012.

? Bustos, L., 2012, Maximizing Conversion with Checkout Optimization.

? Holst, C., 2012, The State Of E-Commerce Checkout Design, Smashing Magazine

? Frost, B., 2012, For a Future Friendly Web.

? Attrill, R., 2012, Mobile Last: Considering the Mobile Experience When It's Too Late for "Mobile First", Mobile East.

? Budd, A., 2012, UX Professionalism: Building Tomorrows Digital Cathedrals.

· Fogg, BJ (2009) A Behavior Model for Persuasive Design,

<http://blog.hcilab.org/uui/files/2013/04/a40-fogg.pdf>

· Fogg, BJ (2009) Creating Persuasive Technologies: An Eight-Step Design Process,

<http://ejournal.narotama.ac.id/files/an%20eight-step%20design%20process..pdf>

2 Universal Usability

? Shneiderman, B. (2000) Pushing Human-Computer Interaction Research to Empower Every Citizen: Universal Usability, Communications of the ACM, Vol. 43, No: 5, 85-91.

? Nielsen, J. (2010) Children's Websites: Usability Issues in Designing for Kids, Jakob Nielsen's Alertbox, <http://www.nngroup.com/articles/childrens-websites-usability-issues/>

? Loranger, H. and Nielsen J. (2013) Teenage Usability: Designing Teen-Targeted Websites, Jakob Nielsen's Alertbox, <http://www.nngroup.com/articles/usability-of-websites-for-teenagers/>

? Nielsen, J. (2013) Seniors as Web Users, Jakob Nielsen's Alertbox,

<http://www.nngroup.com/articles/usability-for-senior-citizens/>

? Nielsen, J. (2008) Middle-Aged Users' Declining Web Performance,

<http://www.useit.com/alertbox/middle-aged-users.html>

? Loranger, H. and Nielsen, J. (2013) Teenage Usability: Designing Teen-Targeted Websites,

<https://www.nngroup.com/articles/usability-of-websites-for-teenagers/>

? Meyer, K. (2016) Young Adults/Millennials as Web Users (Ages 18-25),

https://www.nngroup.com/articles/young-adults-ux/?utm_source=...6&utm_medium=email&utm_term=0_7f29a2b335-d96da19306-24233293

? Nielsen, J. (2001) Beyond Accessibility: Treating Users with Disabilities as People,

<http://www.nngroup.com/articles/beyond-accessibility-treating-users-with-disabilities-as-people/>
 ? Cassell, J. (2008) Genderizing Human-Computer Interaction. J. A. Jacko ve A. Sears (eds.), The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies and Emerging Applications (Human Factors And Ergonomics), New York: Lawrence Erlbaum Assoc, 401-412.
 ? Marcus, A. (2008) Global And Intercultural User-Interface Design. J. A. Jacko ve A. Sears (eds.) The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies and Emerging Applications (Human Factors And Ergonomics) 2nd Edition. New York: Lawrence Erlbaum Assoc, 355-380.
 ? Gould, E. (2005) Sythesizing the Literature on Cultural Values. Nuray Aykın (ed.) Usability and Internationalization of Information Technology, Lawrence Erlbaum Associates, Publishers, New Jersey, 79-122.

3 Information Architecture

- Resmini, A. and Rosati, L. (2011) A Brief History of Information Architecture, Journal of Information Architecture, Vol. 3, Issue 2, p. 33-45, <http://journalofia.org/volume3/issue2/03-resmini/jofia-0302-03-resmini.pdf>
- Barker, I. (2005) What is information architecture?, Step Two Design, http://www.steptwo.com.au/papers/kmc_whatisinfoarch/index.html
- Nielsen, J. (2009) Top 10 Information Architecture (IA) Mistakes, <http://www.nngroup.com/articles/top-10-ia-mistakes/>
- TECED (2013) IA Evaluation Methodologies, <http://teced.com/services/information-architecture-ia/ia-evaluation-methodologies/>
- Righi, C., James, J., Beasley, M., Day, D. L., Fox, J. E., Gieber, J., Howe, C. and Ruby, L. (2013) Card Sort Analysis Best Practices, Journal of Usability Studies, Vol. 8, Issue 3, May 2013 pp. 69-89, http://www.upassoc.org/upa_publications/jus/2013may/JUS_Righi_May_2013.pdf
- Richards, J. (2013) The Grammar of Interactivity, UX Booth, http://www.uxbooth.com/articles/the-grammar-of-interactivity/?utm_source=twitterfeed&utm_medium=twitter
- Anderson, C. (2004) The Long Tail, Wired, Issues 12.10, October 2004, <http://www.wired.com/wired/archive/12.10/tail.html>
- Nielsen, J. (2012) SEO and Usability, <http://www.nngroup.com/articles/seo-and-usability/>
- Morville, P. and Rosenfeld, L. (2007) Information Architecture for the World Wide Web: Designing Large-Scale Web Sites, O'Reilly Media, USA.
- Nielsen, J. (2009) Mental Models, <http://www.nngroup.com/articles/mental-models/>
- Hudson, W. (2013) Card Sorting, Encyclopedia of Human-Computer Interaction, http://www.interaction-design.org/encyclopedia/card_sorting.html
- Sauro, J. (2012) Card Sorting + Tree Testing: The Science of Great Site Navigation, Measuring Usability, <http://www.measuringusability.com/blog/cardsort-tree-test.php>
- Nielsen, J. (2011) Mini-IA: Structuring the Information About a Concept, <http://www.nngroup.com/articles/mini-ia-structuring-information/>
- Nielsen, J. (2009) IA Task Failures Remain Costly, <http://www.nngroup.com/articles/ia-task-failures-remain-costly/>
- Nielsen, J. (2009) Card Sorting: How Many Users to Test, <http://www.nngroup.com/articles/card-sorting-how-many-users-to-test/>

4 UI Design for Desktop Environments

? Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Page Structure, <http://webstyleguide.com/wsg3/6-page-structure/index.html>
 ? Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Page Design, <http://webstyleguide.com/wsg3/7-page-design/index.html>
 ? Nielsen, J. (2011) Top 10 Guidelines for Homepage Usability, <http://www.nngroup.com/articles/top-ten-guidelines-for-homepage-usability/>
 ? Holst, C., (2014), The Current State Of E-Commerce Search, <http://www.smashingmagazine.com/2014/08/18/the-current-state-of-e-commerce-search/>
 ? Appleseed, J. (2014), Deconstructing E-Commerce Search: The 12 Query Types, <http://baymard.com/blog/ecommerce-search-query-types>
 ? Whintenton, K., 2014, Filters vs. Facets: Definitions,

<http://www.nngroup.com/articles/filters-vs-facets/>
 ? Sherwin, K., 2014, The Magnifying-Glass Icon in Search Design: Pros and Cons,
<http://www.nngroup.com/articles/magnifying-glass-icon/>
 ? Cardello, J., 2014, Killing Off the Global Navigation: One Trend to Avoid,
<http://www.nngroup.com/articles/killing-global-navigation-one-trend-avoid/>
 ? Loranger, H., 2014, Infinite Scrolling Is Not for Every Website,
<http://www.nngroup.com/articles/infinite-scrolling/>
 ? Whintenton, K., 2014, 3 Guidelines for Search Engine "No Results" Pages,
<http://www.nngroup.com/articles/search-no-results-serp/>
 ? Whintenton, K., 2014, Filters vs. Facets: Definitions,
<http://www.nngroup.com/articles/filters-vs-facets/>
 ? Sherwin, K., 2014, The Magnifying-Glass Icon in Search Design: Pros and Cons,
<http://www.nngroup.com/articles/magnifying-glass-icon/>
 ? Cardello, J., 2014, Killing Off the Global Navigation: One Trend to Avoid,
<http://www.nngroup.com/articles/killing-global-navigation-one-trend-avoid/>
 ? Loranger, H., 2014, Infinite Scrolling Is Not for Every Website,
<http://www.nngroup.com/articles/infinite-scrolling/>
 ? Whintenton, K., 2014, 3 Guidelines for Search Engine "No Results" Pages,
<http://www.nngroup.com/articles/search-no-results-serp/>
 ? Cordello, J. (2013) Four Dangerous Navigation Approaches that Can Increase Cognitive Strain,
<http://www.nngroup.com/articles/navigation-cognitive-strain/>
 ? Pernice, K. (2013) Designing Effective Carousels: Create a Fanciful Amusement, Not a House of Horrors,
<http://www.nngroup.com/articles/designing-effective-carousels/>
 ? Nielsen, J. (2009) Mega Menus Work Well for Site Navigation,
<http://www.nngroup.com/articles/mega-menus-work-well/>
 ? Krug, S., 2000, Don't Make Me Think: A Common Sense Approach to Web Usability, Que. ? Usabilla Blog,
 2012, How to design effective navigation menus.

5 UI Design for Mobile Environments

? Nielsen, J. (2011) Mobile Usability Update, <http://www.nngroup.com/articles/mobile-usability-update/>
 ? Hooper, S. 2014, The Rise of the Phablet, Designing for Larger Phones, UXmatters,
[http://www.uxmatters.com/mt/archives/2014/11/the-rise-of-the-phablet-designing-for-larger-phones .php?sthash.p9hQFNW6.mjjo&utm_source=twitterfeed&utm_medium=twitter](http://www.uxmatters.com/mt/archives/2014/11/the-rise-of-the-phablet-designing-for-larger-phones.php?sthash.p9hQFNW6.mjjo&utm_source=twitterfeed&utm_medium=twitter)
 ? Budiu, R. (2013) Mobile: Native Apps, Web Apps, and Hybrid Apps,
<http://www.nngroup.com/articles/mobile-native-apps/>
 ? AnswerLab. 2014, Principles of Mobile Site Design: Delight Users and Drive Conversions,
http://static.googleusercontent.com/media/www.google.com/en//intl/ALL_ALL/think/multiscreen/pdf/multi-screen-moblie-whitepaper_research-studies.pdf
 ? Scott, H. 2014, How to design for thumbs in the Era of Huge Screens, <http://scotthurff.com/posts/how-to-design-for-thumbs-in-the-era-of-huge-screens>
 ? Peatt, K. 2015, An Exploration of Carousel Usage on Mobile E-Commerce Websites, Smashing Magazine,
<http://www.smashingmagazine.com/2015/02/carousel-usage-exploration-on-mobile-e-commerce-websites/>
 ? Wreblovski, L. 2014, Designing for Large Screen Smartphones, <http://www.lukew.com/ff/entry.asp?1927>
 ? Attrill, R., 2012, Mobile Last: Considering the Mobile Experience When It's Too Late for "Mobile First", Mobile East.
 ? Itzkovitch, A., 2012, Designing For Device Orientation: From Portrait To Landscape, Smashing Magazine,
<http://www.smashingmagazine.com/2012/08/designing-device-orientation-portrait-landscape/>
 ? Robles, P. (2015), App download interstitials drive users away: Google,
<https://econsultancy.com/blog/66751-app-download-interstitials-drive-users-away-google/>
 ? Appleseed, J., (2015) The State of Mobile E-Commerce Search and Category Navigation,
http://baymard.com/blog/mobile-ecommerce-search-and-navigation?utm_medium=feed&utm_source=twitter.com&utm_campaign=Feed%3A+baymard
 ? Appleseed, J., (2015) 8 UX Requirements for Designing a User-Friendly Homepage Carousel,
<http://baymard.com/blog/homepage-carousel>

? Peatt, K. (2015) An Exploration Of Carousel Usage On Mobile E-Commerce Websites, <https://www.smashingmagazine.com/2015/02/carousel-usage-exploration-on-mobile-e-commerce-websites/>

? AnswerLab. 2014, Principles of Mobile Site Design: Delight Users and Drive Conversions, http://static.googleusercontent.com/media/www.google.com/en//intl/ALL_ALL/think/multiscreen/pdf/multi-screen-moblie-whitepaper_research-studies.pdf

? Russell-Rose, T. (2013) Designing Search: Results Pages, UX Magazine, Article No: 1124, <https://uxmag.com/articles/designing-search-results-pages>

? Holst, C. (2016) Infinite Scrolling, Pagination Or “Load More” Buttons? Usability Findings In eCommerce, <https://www.smashingmagazine.com/2016/03/pagination-infinite-scrolling-load-more-buttons/>

? Whitenon, K. (2015) Mobile Faceted Search with a Tray: New and Improved Design Pattern, <https://www.nngroup.com/articles/mobile-faceted-search/>

? Hewlett, L. (2014) How to plan your next mobile e-commerce website <https://www.smashingmagazine.com/2014/03/how-to-plan-your-next-mobile-e-commerce-website/>

? Appleseed, J., (2013) Mobile Product Pages: Always Offer a List of Compatible Products, <http://baymard.com/blog/mcommerce-compatible-products-list>

? Denney, H. (2012) Sticky Menus Are Quicker To Navigate, <https://www.smashingmagazine.com/2012/09/sticky-menus-are-quicker-to-navigate/>

? Kirmani, A. (2016) Mobile-First eCommerce: What Customers Expect and Value in Mobile Shopping Experiences, <http://www.uxmatters.com/mt/archives/2016/02/mobile-first-ecommerce-what-customers-expect-and-value-in-mobile-shopping-experiences.php#sthash.Yfz7eweY.dpuf>

6 Typography, Graphics and Multimedia in UX Design

? Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Typography, <http://webstyleguide.com/wsg3/8-typography/index.html>

? Arditi, A. (2007) Letter case and text legibility in normal and low vision, Vision Research 47 (2007) 2499–2505, http://ac.els-cdn.com/S0042698907002830/1-s2.0-S0042698907002830-main.pdf?_tid=216ec1ca-6c0a-11e4-b7c4-00000aabb0f27&acdnat=1415975329_94d6659035b562a3eb7b803990bd6a50

? Yi, X., Hong, L., Zhong, E., Nathan, N. and L. S. Rajan (2014) Beyond clicks: dwell time for personalization, Proceeding RecSys’14, October 6–10, 2014, Foster City, Silicon Valley, CA, USA, http://labs.yahoo.com/_c/uploads/recsys2014.pdf

? Manjoo, F., (2012), You Won’t Finish This Article: Why people online don’t read to the end., Slate Magazine, http://www.slate.com/articles/technology/technology/2013/06/how_people_read_online_why_you_won_t_finish_this_article.html

? Nielsen, J., (2011), Defer Secondary Content When Writing for Mobile Users, <http://www.useit.com/alertbox/mobile-content.html>

? Nielsen, J., (2011), Mobile Content is Twice as Difficult, <http://www.useit.com/alertbox/mobile-content-comprehension.html>

? Reichenstein, O., 2012, Responsive Typography: The Basics , <http://informationarchitects.net/blog/responsive-typography-the-basics/>

? Krishnan, S. S. and Sitaraman, R. K., 2012, Video Stream Quality Impacts Viewer Behavior: Inferring Causality Using Quasi-Experimental Designs, Proc. of IMC’12, November 14–16, 2012, Boston, Massachusetts, USA. · Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Editorial Design, <http://webstyleguide.com/wsg3/9-editorial-style/index.html>

? Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Graphics, <http://webstyleguide.com/wsg3/11-graphics/index.html>

? Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Multimedia, <http://webstyleguide.com/wsg3/12-multimedia/index.html>

? Nielsen, J., (2009), Powers of 10: Time Scales in User Experience, <http://www.useit.com/alertbox/timeframes.html>

? Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Forms and Applications, <http://webstyleguide.com/wsg3/10-forms-and-applications/index.html>

? Wreblovski, L. (2012) Best Practices for Form Design, http://static.lukew.com/webforms_lukew.pdf

? Constantin, J. (2013) Typographic Design Patterns And Current Practices (2013 Edition), Smashing Magazine, <http://www.smashingmagazine.com/2013/05/17/typographic-design-patterns-practices-case-study-201>

7 Form Design

- ? Lynch, P. J. and Horton, S. (2011) Web Style Guide, 3rd Edition, Forms and Applications, <http://webstyleguide.com/wsg3/10-forms-and-applications/index.html>
- ? Wreblovski, L. (2012) Best Practices for Form Design, http://static.lukew.com/webforms_lukew.pdf ?
- Appleseed, J. (2013) Why Your Checkout Process Should Be Completely Linear, http://baymard.com/blog/checkout-process-should-be-linear?utm_source=feedburner
- ? Appleseed, J. (2012) 6 Mobile Checkout Usability Considerations, Baymard Institute, <http://baymard.com/blog/mobile-checkout>
- ? Appleseed, J. (2013) Mobile Form Usability: Avoid Splitting Single Input Entities, http://baymard.com/blog/mobile-form-usability-single-input-fields?utm_source=twitterfeed&utm_medium=twitter
- ? Appleseed, J. (2011) Form Field Usability: Avoid Multi-Column Layouts, <http://baymard.com/blog/avoid-multi-column-forms>
- ? Derek, N.. (2013) Designing A Better Mobile Checkout Process, Smashing Magazine, <http://uxdesign.smashingmagazine.com/2013/03/14/designing-a-better-mobile-checkout-process/>
- ? Horton, S., 2008, Web Style Guide 3rd Edition, <http://www.webstyleguide.com/index.html>
- ? Wreblovski, L., 2008, Best Practices for Form Design, www.lukew.com
- ? Wreblovski, L., 2012, Design Solutions for New Log In Problems, <https://bagcheck.com/blog/02-design-solutions-for-new-log-in-problems>
- ? Anthony T., 2012, UX MEETS SECURITY, Better Password Masking For Sign-Up Forms, Smashing Magazine, http://uxdesign.smashingmagazine.com/2012/10/26/password-masking-hurt-signup-form/?utm_source=twitterfeed&utm_medium=twitter
- ? Wreblovski, L., 2012, Mobile Design Details: Hide/Show Passwords, <http://www.lukew.com/ff/entry.asp?1653>
- ? Budiu, R , 2014, Login Walls Stop Users in Their Tracks, <http://www.nngroup.com/articles/login-walls/>
- ? Linda Bustos, 2013, 5 Ways to Handle Long Drop-Downs In Mobile Forms, <http://www.getelastic.com/5-ways-to-handle-long-drop-downs-in-mobile-forms/>
- ? T, A. (2012) Better Password Masking For Sign-Up Forms, Smashing Magazine, http://uxdesign.smashingmagazine.com/2012/10/26/password-masking-hurt-signup-form/?utm_source=twitterfeed&utm_medium=twitter
- ? R. B., J. and Schall, A. (2014) Eye Tracking in User Experience Design: Forms and Surveys, UX Matters, <http://www.uxmatters.com/mt/archives/2014/09/eye-tracking-in-user-experience-design.php> ? Rhea, B. (2014) Structured Search in an Omnibox: Turning Sentences in to Input Fields, <https://medium.com/@brhea/structured-search-in-an-omnibox-5a4c4958ff32>
- ? Sherwin, K. (2014) Progress Indicators Make a Slow System Less Insufferable, <http://www.nngroup.com/articles/progress-indicators/>

8 User Research

8.1 Methodology

- Dumas, S. J. and Fox, J. E. (2008) Usability Testing: Current Practice and Future Directions. J. A. Jacko ve A. Sears (eds.), The Human-Computer Interaction Handbook: Fundamentals, Evolving Technologies and Emerging Applications (Human Factors And Ergonomics), New York: Lawrence Erlbaum Assoc, 1129-1149.
- Preece, J., Y. Rogers ve H. Sharp. (2002). Chapter 10: Introducing Evaluation, Interaction Design: Beyond Human-Computer Interaction. New York: John Wiley & Sons, Inc., 317-336.
- Preece, J., Y. Rogers ve H. Sharp. (2002). Chapter 11: Evaluation Framework, Interaction Design: Beyond Human-Computer Interaction. New York: John Wiley & Sons, Inc., 339-356
- Rohrer, C. (2008) When to Use Which User Experience Research Methods, <http://www.nngroup.com/articles/which-ux-research-methods/>
- Rohrer, C. (2009) User Experience Research Methods in 3D: What to Use When and How to Know You're Right, BayCHI, SF chapter of ACM SIGCHI, Palo Alto, CA, USA.
- Sauro, J. (2013) What UX Methods To Use And When To Use Them, Measuring Usability,

<http://www.measuringusability.com/blog/method-when.php>

- Sauro, J. (2013) Comparison Of Usability Testing Methods, Measuring Usability,

<http://www.measuringusability.com/blog/method-comparison.php>

- Brandi, S. (2014) Bias in the UX Lab, UX Reflections, http://akendi.com/blog/bias-in-the-ux-lab/?utm_source=twitterfeed&utm_medium=twitter

- Schade, A. (2015) Pilot Testing: Getting It Right (Before) the First Time,

http://www.nngroup.com/articles/pilot-testing/?utm_term=0_7f29a2b335-276b9d555a-24394425&utm_content=buffera4c69&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

- Schall, A. (2015) The Future of UX Research: Uncovering the True Emotions of our Users, User Experience: The Magazine of the UXPA, <http://uxpamagazine.org/the-future-of-ux-research/>

- Bojko, A. and Adamczyk, K. A. (2014) More than Just Eye Candy: Top Ten Misconceptions about Eye Tracking, http://uxpamagazine.org/more-than-just-eye-candy-top-ten-misconceptions-about-eye-tracking/?utm_content=buffer09246&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer

8.2 Qualitative User Research

- Preece, J., Y. Rogers ve H. Sharp. (2002). Chapter 12: Observing Users, Interaction Design: Beyond Human-Computer Interaction. New York: John Wiley & Sons, Inc., 359-387.

- Nielsen, J., (1995), 10 Usability Heuristics for User Interface Design, <http://www.nngroup.com/articles/ten-usability-heuristics/>

- Nielsen, J., (1995), Characteristics of Usability Problems Found by Heuristic Evaluation, <http://www.nngroup.com/articles/usability-problems-found-by-heuristic-evaluation/>

- Nielsen, J., (1995), How to Conduct a Heuristic Evaluation, <http://www.nngroup.com/articles/how-to-conduct-a-heuristic-evaluation/>

- Sherry, R. (2012) A Field Guide To Mobile App Testing, Smashing Magazine, <http://mobile.smashingmagazine.com/2012/10/22/a-guide-to-mobile-app-testing/>

- Faulkner, L. (2003) Beyond the five-user assumption: Benefits of increased sample sizes in usability testing, http://www.simplifyinginterfaces.com/wp-content/uploads/2008/07/faulkner_brmic_vol35.pdf

8.3 Quantifying User Experience (Quantitative User Research)

- Pernice, K. and Nielsen, J. (2009) Eyetracking Methodology: How to Conduct and Evaluate Usability Studies Using Eyetracking, NN / g, Nielsen and Norman Group.

- Sauro, J. (2012) Five Critical Quantitative UX Concepts, Measuring Usability, <http://www.measuringusability.com/blog/five-hard-quant.php>

- Sauro, J. (2012) Nine Misconceptions About Statistics And Usability, Measuring Usability, <http://www.measuringusability.com/blog/stats-usability-errors.php>

- Sauro, J. (2010) What Metrics Are Collected In Usability Tests?, Measuring Usability, <http://www.measuringusability.com/blog/usability-metrics.php>

- Sauro, J. (2012) 10 Benchmarks For User Experience Metrics, Measuring Usability, <http://www.measuringusability.com/blog/ux-benchmarks.php>

- Sauro, J. (2013) 10 Metrics For Testing Website Navigation, Measuring Usability, [http://www.measuringusability.com/blog/10-navigation-metrics.php?utm_source=feedly&utm_medium=feed&utm_campaign=Feed:+MeasuringUsability+\(Measuring+Usability:+Quantitative+Usability+and+Statistics\)&utm_source=twitterfeed&utm_medium=twitter](http://www.measuringusability.com/blog/10-navigation-metrics.php?utm_source=feedly&utm_medium=feed&utm_campaign=Feed:+MeasuringUsability+(Measuring+Usability:+Quantitative+Usability+and+Statistics)&utm_source=twitterfeed&utm_medium=twitter)

- Sauro, J. (2012) 10 Things To Know About A/B Testing, Measuring Usability, <http://www.measuringusability.com/blog/ab-testing.php>

- Sauro, J. (2013) Rating The Severity Of Usability Problems, Measuring Usability, <http://www.measuringusability.com/blog/rating-severity.php>

- Sauro, J. (2013) 10 Ways to Get a Horrible Survey Response Rate, Measuring Usability, <http://www.measuringu.com/blog/horrible-responserate.php>

- Baer, D. and Lubin, G. (2014), 58 Cognitive Biases That Screw Up Everything We Do, Business Insider , <http://www.businessinsider.com/cognitive-biases-2014-6?op=1>

- Bethlehem, J. (2009), Chapter3: Questionnaire Design, in Applied Survey Methods: A Statistical Perspective, Wiley Series in Survey Methodology.

8.4 Usability Testing Instruments

• USABILITY AND USER EXPERIENCE : Society for Technical Communication UUX Special Interest Group (2014) Usability Toolkit, http://www.uuxsig.org/usability-toolkit/?doing_wp_cron=1416828178.1387839317321777343750&utm_source=twitterfeed&utm_medium=twitter

8.5 UX Research and Design Tools

? Sullivan Craig (2016) The List of UX Tools to Rule Them All, <https://medium.com/muzli-design-inspiration/login-sign-up-inspiration-for-mobile-apps-aeff34090b0bd#ocoe2qreq>

Theory Topics

Week	Weekly Contents
1	Introduction
2	Key Concepts
3	Universal Usability: Key Concepts, Guidelines, Standards
4	Culturalization and “Global Digital Media”
5	Investigating User Interface Design through Usability: Patterns and Guidelines _ Information Architecture
6	Investigating User Interface Design through Usability: Patterns and Guidelines _ Desktop Environments
7	Investigating User Interface Design through Usability: Patterns and Guidelines _ Mobile Environments
8	Investigating User Interface Design through Usability: Patterns and Guidelines _ Use of Typography, Graphics and Multimedia in UI Design
9	Investigating User Interface Design through Usability: Patterns and Guidelines _ Form Design

