



Course Name: Sustainable Urban Form
Course key: 76976
Type of course: Optative
Approved credits:
Last curriculum revision date: September 2020
Pre-requisite: None

A) COURSE NAME: SUSTAINABLE URBAN FORM

Synthetic Program				
Sustainable urban form				
General information				
Type of curricular proposal:	New creation	<input checked="" type="checkbox"/>	Restructuration	Adjusted
Type of course:	Required	<input type="checkbox"/>	Optative	<input checked="" type="checkbox"/> Complementary
Course shared with another Academic program or academic entity	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes What PE is shared? _____ What semester? _____ What academic entity? _____			
Produced by	Carolin Antoni Lourdes Marcela López Mares			
Reviewed by	Gadjah Mada University , Indonesia			
Semester	Hours of theory per week	Hours of practice per week	Hours additional work student per week	Credits
	3	1	1	6

Synthetic Program	
Main Objective	This course aims to cover the concept of sustainability and sustainable urban development in a broad sense. It shows to how environments can be designed to promote sustainable and liveable urban communities through physical space. The course emphasizes the importance of design creativity, analytical skills, critical thinking as tools for analysis and communication to achieve social, cultural and environmental sustainability
Specific objectives	<ul style="list-style-type: none"> • Provide students with knowledge about sustainability discourse, their needs and requirements. • Provide an understanding of the complex relationship between spatial issues, design and urban socio-economic processes. • Research critical environmental problems, social, cultural and political implications created by modern cities and address the ecological concerns of urbanism. • Develop the reflective and critical thinking of the students for the analysis and design or proposals of sustainable urban forms. • Use urban design as a mode of research and practice that shapes urban environments and responds to economic, social, cultural and environmental problems. • Describe creative design solutions through current views, proven strategies and examples of good practice in the field.
Specific professional competence (s) to which it contributes to develop the subject	<ul style="list-style-type: none"> • The course is designed to expose students to discussions on urban development and sustainable issues. • They will gain an overview of sustainability, urban strategies and theories in different political, geographical, socioeconomic, cultural and environmental contexts. • Know to understand the complex relationships between built and natural environments. • It is intended to encourage critical analysis or urban contexts to find solutions towards sustainability .
Performance of the specific professional competence to those who contribute to develop the subject	<ul style="list-style-type: none"> • Apply the qualitative evaluation for urban patterns in accordance with the principles of sustainability. • Organize urban spaces, aspects of form, function and sustainability in an urban design proposal. • Apply theories in of urban form to specific projects for the resolution of a problem or in a series of interrelated urban problems .
Professional competence (s) transversal (s) to the one (s) that contributes	<ul style="list-style-type: none"> • Develop the ability to communicate professional and complex ideas effectively in written reports, verbally and through presentations to groups with strict parameters. • Understand the tools used in the design and in the process between ideas, analysis, proposals and projects. • Articulate complex problems and effectively frame and communicate possible solutions.

Synthetic Program			
to develop the subject			
Units	Units	Content	
	1. Introduction	Estudents understand the challenges facing cities and their transformation towards sustainable cities.	
	2. Urban form	Students will learn about different urban forms, their elements as urban form is linked to everyday life.	
	3. Sustainable urban form	Students will learn LVNC or theoretical between urban form and sustainability	
	4. Sustainable urban form in Latin America	Students will know different cases of cities with a sustainable urban form.	
Method and practice	Method	The course will be developed mainly as a seminar-workshop. The main attraction of this method is the possibility of a collective reflection on each of the topics analyzed during the program. The content of the class will be delivered through readings and presentations in class and at home. The course will be dynamic and participatory, based on discussions. The teacher also provides theoretical presentations and introduces new topics when required.	
	Practices	Field trip for analysis	
Evaluation method	Examination parcial	25%	50% of pre-readings and essays Unit 1. And 50% for the first presentation of an essay proposal (subject and title)
		25%	50% of pre-readings and essays Unit 2. And 50% for delivery of the first draft of the essay (subject and title)
		50%	50% of pre-readings and tests Unit 3. And 50% for delivery of the essay
	Final exam	Delivery of test	
	Other activities	Field trip reports	
Bibliography and digital resources	Bibliography	<p>Acselrad , Henri. <i>Sustainability and city</i>. EURE (Santiago), 1999, vol. 25, no 74, p. 36-46.</p> <p>Blanco , MJ, <i>Towards the design and management of sustainable neighborhoods in Chile</i> . INVI Magazine, N°86 / May 2016 / Volume N° 31. Pp. 203-</p>	

Synthetic Program		
		<p>214. http://www.revistainvi.uchile.cl/index.php/INV/article/view/1029/1223</p> <p>Celso , SP ., <i>Sustainable Development in Latin America : the importance of education. A contribution to the geography of communication</i> . ISSN ENCOUNTERS 1692-5858. No. 16 December 2010 • P. 87-98 https://dialnet.unirioja.es/descarga/articulo/4049845.pdf</p> <p>Chumacero , G . <i>The compact city What is it, why do it and how to do it?</i> Pp. 16-18. http://www.cbre.com.mx/empresa/articulos/artcentral_4aed.pdf</p> <p>Cifuentes, P. and Llop , J. (2015). <i>Rethinking the city: sustainable urban development strategies of the intermediate cities of Latin America</i>. Node Magazine, 9 (19), pp. 73-83. https://dialnet.unirioja.es/descarga/articulo/5646260.pdf</p> <p>De Schiller, S. (2000). <i>Edilicia and Urban Tissue Form: Sustainability Assessment. Habitat and Energy Research Center, Argentina</i> . http://www.g.unsa.edu.ar/asades/act2000/05-71.html (02/11/06).</p> <p>Díaz , HI, <i>The ecological city</i>. (2005) 3: 58-63 ISSN 1812-3864. Pp. 58-63. http://bdigital.binal.ac.pa/bdp/artpma/laciudadecologica.pdf</p> <p>Franquesa , Teresa. <i>The city, for bad and for good. Challenges and opportunities in Urban Environmental Education</i>. P. 3-6. http://revistaciclos.com/pdfs/CICLOS%202.pdf</p> <p>González , AS, Larralde CAH <i>Demographic and Urban Studies</i>. vol. 34, no. 1 (100), January-April, 2019, pp. 11-42 ISSN 0186-7210; and ISSN 2448-6515; https://estudiosdemograficosyurbanos.colmex.mx/index.php/edu/article/download/1799/pdf</p> <p>Higuera , EG, <i>Sustainable urban development and urban design criteria for residential planning</i>. Pp. 1-11 http://oa.upm.es/16624/1/Desarrollo_urbano_sost.pdf</p>

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	<p>Jabareen , YR (2006). <i>Sustainable urban forms: Their typologies, models, and concepts. Journal of planning education and research</i> , 26 (1), 38-52.</p> <p>Mella , José María . <i>SUSTAINABLE CITIES : ANALYSIS AND POSSIBLE STRATEGIES</i> . P. 1-9. http://www.encuentros-multidisciplinares.org/revista-50/jose_mella_y_asuncion_lopez.pdf</p> <p>Milder, J. (2012). Sustainable urban form. In <i>Sustainable Urban Environments</i> (pp. 263-284). Springer , Dordrecht .</p> <p>Rivas Sanz , JL <i>Towards the city landscape. Regeneration of the urban form from nature.</i> (2012). Pp. 79-93. http://polired.upm.es/index.php/urban/article/viewFile/2067/2112</p> <p>Rivero, HM, Moreno, SE, Velázquez, MMA <i>Urban containment perimeters: New decision framework</i> . Pp. 56-81. http://ru.iiec.unam.mx/3920/1/014-Rivero-Moreno-Vel%C3%A1zquez.pdf</p> <p>Rodriguez , CJC, <i>Composition of the Urban Form From the Public Space Case study: Traditional Historic Center of Bogotá and Avenida de los Comunerros.</i> https://upcommons.upc.edu/bitstream/handle/2099/16055/138_BCN_RodriguezJuan.pdf</p> <p>Schjetnan , M., Peniche, M., Calvillo , J. <i>Principles of Urban / Environmental Design</i> . LIMUSA https://www.academia.edu/31414184/Principios_de_Disen_o_Urbano_y_Ambiental_-_Mario_Schjetnan.pdf</p> <p>Sgroi . AM, (2016) <i>Urban morphology - urban landscape</i> -. Pp. 1-19. http://blogs.unlp.edu.ar/planeamientofau/files/2013/05/Ficha-N%C2%BA-19-Morfolog%C3%ADa-Urbana.pdf</p> <p>UNAM, Institute of Legal Research. P. 491-495 https://archivos.juridicas.unam.mx/www/bjv/libros/6/2641/5.pdf</p> <p>UNESCO <i>Challenges for sustainability in Latin America and the Caribbean</i> . 2019. http://www.unesco.org/new/es/santiago/education/education-</p>

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		<p>for-sustainable-development/challenges-for-sustainability-in-latin-america-and-the-caribbean/</p> <p>Van Diepen , A., & Voogd , H. (2001). <i>Sustainability and planning: does urban form matter</i> ? <i>International Journal of Sustainable Development</i> , 4 (1), 59-74.</p> <p>Vazquez , Mariano. <i>Sustainable Cities</i>. Madrid, Spain (1998), p. 59-71. https://dialnet.unirioja.es/descarga/articulo/1333765.pdf</p> <p>Ruiz-Apilánez, B., Romero de Ávila, V., & Solís, E. (2017). <i>Forma urbana: pasado, presente y perspectivas</i>.</p> <p>Zumelzu-Scheel, A. (2017). <i>Forma urbana y sostenibilidad: pasado, presente y desafíos</i>. Una revisión. AUS [Arquitectura/Urbanismo/Sustentabilidad], (20), 77-85.</p> <p>Ortiz-Arrieta, L. B., & Silva, M. J. (2019). <i>V. Asentamientos informales en América Latina: epicentro urbano de los desafíos del desarrollo sostenible</i>. CEPAL, 81</p>
	Digital resources	https://www.gob.mx/nuevaagendaurbana

B) CONTENTS AND METHODS BY UNITS AND TOPICS

Unit 1. Introduction		10h
Topic 1.1 Introduction to urban sustainability		10h
Subtopic	1.1.1 Sustainable cities 1.1.2 Urban-environmental challenges 1.1.3 Latin American Cities and sustainability	

Bibliography and digital resources	Bibliography	<p>1.1.1 Sustainable cities Mella, José María. Sustainable Cities : Analysis and Possible Strategies. P. 1-9. http://www.encuentros-multidisciplinares.org/revista-50/jose_mella_y_asuncion_lopez.pdf</p> <p>Vazquez, Mariano. Sustainable cities Madrid, Spain (1998), p. 59-71. https://dialnet.unirioja.es/descarga/articulo/1333765.pdf</p> <p>1.1.2 Urban-environmental challenges Franquesa , Teresa. The city, for bad and for good. Challenges and opportunities in Urban Environmental Education. P. 3-6. http://revistaciclos.com/pdfs/CICLOS%202.pdf</p> <p>Ortiz-Arrieta, L. B., & Silva, M. J. (2019). V. Asentamientos informales en América Latina: epicentro urbano de los desafíos del desarrollo sostenible. CEPAL, 81</p> <p>UNAM, Institute of Legal Research. P. 491-495 https://archivos.juridicas.unam.mx/www/bjv/libros/6/2641/5.pdf</p> <p>1.1.3 Latin American Cities and sustainability Acselrad , Henri. <i>Sustainability and city</i>. EURE (Santiago), 1999, vol. 25, no 74, p. 36-46.</p>
	Digital resources	
Methods of teaching	The topics to be discussed in each teaching unit will be presented in face-to-face sessions through the use of audiovisual material (presentations, videos, etc.). The majority of the presentations will be exhibited by the holder of the subject and in some cases the students of the course will present works related to the corresponding subjects previous commissioned by the holder.	
Learning activities	Each student must read the specific article for the class and prepare a reading control in which, in addition to indicating key concepts and demonstrating their mastery, they must express their opinion, experiences, doubts and / or thoughts. A written document of the proposal must also be delivered at the end of each unit and it will be enriched until a complete research protocol is built.	

Unit 2. Urban form		11h
Unit 2 .1 Introduction to the urban form		11h
Subtopic	<p>2.1.1 Urban form</p> <p>2.1.2 Elements of the urban form</p> <p>2.1.3 Types of unsustainable urban forms: dispersed, linear, polycentric city, peripheral city, edge city, satellite city.</p>	

Bibliography and digital resources	Bibliography	<p>2.1.1 Urban form González, AS, Larralde CA H. <i>Demographic and Urban Studies</i> . vol. 34, no. 1 (100), January-April, 2019, pp. 11-42 ISSN 0186-7210; and ISSN 2448-6515; https://estudiosdemograficosyurbanos.colmex.mx/index.php/edu/article/download/1799/pdf</p> <p>2.1.2 Elements of the urban form Rodriguez , CJC , <i>Composition of the Urban Form From the Public Space Case study: Traditional Historic Center of Bogotá and Avenida de los Comuneros</i>. https://upcommons.upc.edu/bitstream/handle/2099/16055/138_BCN_RodriguezJuan.pdf</p> <p>Sgroi . AM, (2016) <i>Urban morphology - urban landscape</i> -. Pp. 1-19. http://blogs.unlp.edu.ar/planeamiento/fau/files/2013/05/Ficha-N%C2%BA-19-Morfolog%C3%ADa-Urbana.pdf</p> <p>Ruiz-Apilánez, B., Romero de Ávila, V., & Solís, E. (2017). Forma urbana: pasado, presente y perspectivas.</p> <p>Zumelzu-Scheel, A. (2017). Forma urbana y sostenibilidad: pasado, presente y desafíos. Una revisión. AUS</p> <p>2.1.3 Types of unsustainable urban forms: dispersed, linear, polycentric city, peripheral city, edge city, satellite city. Milder, J. (2012). <i>Sustainable urban form. In Sustainable Urban Environments</i> (pp. 263-284). Springer , Dordrecht .</p>
	Digital resources	
Methods of teaching	The topics to be discussed in each teaching unit will be presented in face-to-face sessions through the use of audiovisual material (presentations, videos, etc.). The majority of the presentations will be exhibited by the holder of the subject and in some cases the students of the course will present works related to the corresponding subjects previous commissioned by the holder.	
Learning activities	Each student must read the specific article for the class and prepare a reading control in which, in addition to indicating key concepts and demonstrating their mastery, they must express their opinion, experiences, doubts and / or thoughts. A written document of the proposal must also be delivered at the end of each unit and it will be enriched until a complete research protocol is built.	

Unit 3. Sustainable urban form		4h
Topic 3.1 Introduction to the sustainable urban form		6h
Subtopic	3.1.1 Urban form and sustainability 3.1.2 Basic principles of sustainable urban form 3.1.3 Scales and perspectives to restructure urban spaces in a sustainable way: Regional and metropolitan, urban, neighborhood scale, built environment.	
Topic 3.2 Types of sustainable urban forms		6h
Subtopic	3.2.1 Neo-traditional development: New urbanism 3.2.2 Urban containment 3.2.3 Compact city 3.2.4 Ecological City	
Topic 3.3 Relationships between neighborhood design and sustainable way of life		4h
Subtopic	3.3.1 Neighborhood design 3.3.2. Participatory design 3.3.3. Sustainable way of life	
Bibliography and digital resources	Bibliography	<p>3.1.1 Urban form and sustainability Jabareen , YR (2006). Sustainable urban forms: Their typologies, models, and concepts. <i>Journal of planning education and research</i> , 26 (1), 38-52.</p> <p>De Schiller, S. (2000). <i>Edilicia and Urban Tissue Form: Sustainability Assessment. Habitat and Energy Research Center, Argentina</i> . http://www.g.unsa.edu.ar/asades/act2000/05-71.html (02/11/06).</p> <p>3.1.2 Basic principles of sustainable urban form Schjetnan , M., Peniche, M., Calvillo, J. <i>Principles of Urban / Environmental Design</i> . LIMUSA https://www.academia.edu/31414184/Principios_de_Disen_o_Urbano_y_Ambiental_-_Mario_Schjetnan.pdf</p> <p>Higuera, EG, <i>Sustainable urban development and urban design criteria for residential planning</i> . Pp. 1-11 http://oa.upm.es/16624/1/Desarrollo_urbano_sost.pdf</p>

	<p>3.1.3 Scales and perspectives to restructure urban spaces in a sustainable way: Regional and metropolitan, urban, neighborhood scale, built environment</p> <p>Rivas Sanz, JL <i>Towards the city landscape. Regeneration of the urban form from nature</i> . (2012). Pp. 79-93. http://polired.upm.es/index.php/urban/article/viewFile/2067/2112</p> <p>Cifuentes, P. and Llop , J. (2015). <i>Rethinking the city: sustainable urban development strategies of the intermediate cities of Latin America</i>. Node Magazine, 9 (19), pp. 73-83. https://dialnet.unirioja.es/download/articulo/5646260.pdf</p> <p>3.2.1 Neo-traditional development: New urbanism</p> <p>Jabareen , YR (2006). <i>Sustainable urban forms: Their typologies, models, and concepts</i>. <i>Journal of planning education and research</i> , 26 (1), 38-52.</p> <p>3.2.2 Urban containment</p> <p>Rivero, HM, Moreno, SE, Velázquez, MMA . <i>The perimeter of urban containment: New decision framework</i>. Pp. 56-81. http://ru.iiec.unam.mx/3920/1/014-Rivero-Moreno-Vel%C3%A1zquez.pdf</p> <p>3.2.3 Compact city</p> <p>Chumacero , G . <i>The compact city What is it, why do it and how to do it?</i> . Pp. 16-18. http://www.cbre.com.mx/empresa/articulos/artcentral_4aed.pdf</p> <p>3.2.4 Ecological city</p> <p>Díaz, HI ., <i>The ecological city</i> . (2005) 3: 58-63 ISSN 1812-3864. Pp. 58-63. http://bdigital.binal.ac.pa/bdp/artpma/laciudadecologica.pdf</p> <p>3.3 Relationships between neighborhood design and sustainable way of life</p> <p>Blanco, MJ, <i>Towards the design and management of sustainable neighborhoods in Chile</i>. INVI Magazine, N°86 / May 2016 / Volume N° 31. Pp. 203-214. http://www.revistainvi.uchile.cl/index.php/INVI/article/view/1029/1223</p>
	<p>Digital resources</p>

Methods of teaching	The topics to be discussed in each teaching unit will be presented in face-to-face sessions through the use of audiovisual material (presentations, videos, etc.). The majority of the presentations will be exhibited by the holder of the subject and in some cases the students of the course will present works related to the corresponding subjects previous commissioned by the holder.
Learning activities	Each student must read the specific article for the class and prepare a reading control in which, in addition to indicating key concepts and demonstrating their mastery, they must express their opinion, experiences, doubts and / or thoughts. A written document of the proposal must also be delivered at the end of each unit and it will be enriched until a complete research protocol is built.

Unit 4. Sustainable urban form in Latin America		11h
Topic 4.1 Public policy and planning around the sustainable urban form		11h
Subtopic	4.1.1 Urban form and sustainability in Latin America 4.1.2 Sustainable Urban Form in public policy and planning 4.1.3 New Urban Agenda	
Bibliography and digital resources	Bibliography	<p>4.1.1 Urban form and sustainability in Latin America UNESCO <i>Challenges for sustainability in Latin America and the Caribbean</i>. 2019. http://www.unesco.org/new/es/santiago/education/educacion-for-sustainable-development/challenges-for-sustainability-in-latin-america-and-the-caribbean/</p> <p>Celso, SP, <i>Sustainable Development in Latin America: the importance of education. A contribution to the geography of communication</i> . ISSN ENCOUNTERS 1692-5858. No. 16 December 2010 • P. 87-98 https://dialnet.unirioja.es/descarga/articulo/4049845.pdf</p> <p>4.1.2 Sustainable Urban Form in public policy and planning Van Diepen , A., & Voogd , H. (2001). <i>Sustainability and planning: does urban form matter?. International Journal of Sustainable Development</i> , 4 (1), 59-74.</p>
	Digital resources	<p>4.1.3 New Urban Agenda https://www.gob.mx/nuevaagendaurbana</p>
Methods of teaching	The topics to be discussed in each teaching unit will be presented in face-to-face sessions through the use of audiovisual material (presentations, videos, etc.). The majority of the presentations will be exhibited by the holder of the subject and in some cases the students of the course will present works related to the corresponding subjects previous commissioned by the holder.	
Learning activities	Each student must read the specific article for the class and prepare a reading control in which, in addition to indicating key concepts and demonstrating their mastery, they must express their opinion, experiences, doubts and / or thoughts. A written document of the proposal must also	

	be delivered at the end of each unit and it will be enriched until a complete research protocol is built.
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C) TEACHING AND LEARNING STRATEGIES

The course will be established primarily as a seminar-workshop, the main attraction of this method is the possibility of a collective reflection on each of the issues raised in the program, based on certain key concepts derived from class readings and presentations. Each student must read the specific article for the class and prepare a reading control in which, in addition to indicating key concepts and demonstrating their mastery, they must express their opinion, experiences, doubts and / or thoughts.

At the end of the first unit, each student must present the topics of their essay to the rest of the group in a 15-minute presentation. Similarly, you must evaluate the work of another of your classmates under the guidelines defined by the teacher. A written document of the proposal must also be delivered at the end of each unit and it will be enriched until a complete research protocol is built.

After unit 2, each student should give the teacher the first written draft of the essay. After unit 3 each student should deliver the essay to the teacher. The essay at a minimum will have an extension of 15 pages and a maximum of 20 pages.

D) EVALUATION AND ACCREDITATION

Preparation and / or presentation of:	Periodicity	Covers	Weighting of each partial in relation to the ordinary
First partial exam:	At the end of Unit 1	Unit 1	25%
Second partial exam:	At the end of Unit 2	Unit 2	25%
Third partial exam:	At the end of Unit 3	Unit 3	50%
TOTAL			100%
Ordinary exam	The final ordinary skill will be the sum of I as three partial scores (100%)		
Other academic activities required			

E) BIBLIOGRAPHY AND COMPUTER RESOURCES

Basic texts

Acelrad , Henri. *Sustainability and city*. EURE (Santiago), 1999, vol. 25, no 74, p. 36-46.

Blanco, MJ, *Towards the design and management of sustainable neighborhoods in Chile* . INVI Magazine, N°86 / May 2016 / Volume N° 31. Pp. 203-214. <http://www.revistainvi.uchile.cl/index.php/INVI/article/view/1029/1223>

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- Cifuentes, P. and Llop , J. (2015). *Rethinking the city: sustainable urban development strategies of the intermediate cities of Latin America*. Node Magazine, 9 (19), pp. 73-83. <https://dialnet.unirioja.es/descarga/articulo/5646260.pdf>
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- Jabareen , YR (2006). *Sustainable urban forms: Their typologies, models, and concepts*. *Journal of planning education and research*, 26 (1), 38-52.
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- Van Diepen , A., & Voogd , H. (2001). *Sustainability and planning: does urban form matter? International Journal of Sustainable Development*, 4 (1), 59-74.
- Vazquez, Mariano. *Sustainable Cities* . Madrid, Spain (1998), p. 59-71. <https://dialnet.unirioja.es/download/articulo/1333765.pdf>
- Ruiz-Apilánez, B., Romero de Ávila, V., & Solís, E. (2017). Forma urbana: pasado, presente y perspectivas.
- Zumelzu-Scheel, A. (2017). Forma urbana y sostenibilidad: pasado, presente y desafíos. Una revisión. *AUS [Arquitectura/Urbanismo/Sustentabilidad]*, (20), 77-85.
- Ortiz-Arrieta, L. B., & Silva, M. J. (2019). V. Asentamientos informales en América Latina: epicentro urbano de los desafíos del desarrollo sostenible. Gracias por su interés en esta publicación de la CEPAL, 81

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<https://www.gob.mx/nuevaagendaurbana>