

Academic course	Project name	Fishway type	Observations	No.
2014-2015	Hydraulic evaluation of the fishway situated in the hydropower plant of "la Flecha" the Tormes River (Spain)	Submerged notch and orifice fishway	Part of the work has been submitted to Ecological Engineering	1
2014-2015	Solution to the fish migration problem in the weir of "Laupago", in the Deba River (Elgoibar, Gipuzkoa, Spain)	Vertical slot fishway		2
2014-2015	Solution to the fish migration problem in the weir of "Atzetarte", in the Deba River (Elgoibar, Gipuzkoa, Spain)	Vertical slot fishway		3
2014-2015	Solution to the fish migration problem in "Manterola" weir in the Segura River (Murcia, Spain)	Vertical slot fishway	(LIFE12 ENV/ES/1140)	4
2013-2014	Modification to the solution to the fish migration problem in the weir of the Hydropower plant "Salto de Matallana", in the Torío River (León, Spain)	Submerged notch and orifice fishway	Modification to the original solution	5
2013-2014	Solution to the fish migration problem in a weir of Pisuerga River (Aguiralejo, Valladolid, Spain)	Submerged notch and orifice fishway		6
2013-2014	Hydraulic evaluation of the fishway situated in the hydropower plant "Josefina" in the Pisuerga River (Spain)	Submerged notch and orifice fishway	Fishway with two entrances	7
2013-2014	Solution to the fish migration problem in "Soto Damián" weir in the Segura River (Abarán, Murcia, Spain)	Vertical slot fishway	(LIFE12 ENV/ES/1140)	8
2013-2014	Solution to the fish migration problem in "El Menjú" weir in the Segura River (Cieza, Murcia, Spain)	Natural-like fishway: bypass channel with perturbation boulders	(LIFE12 ENV/ES/1140)	9
2013-2014	Solution to the fish migration problem in "Acequia de los Charcos" weir in the Segura River (Cieza, Murcia, Spain)	Natural-like fishway: rocky ramp with perturbation boulders	Solution 2: Left bank (LIFE12 ENV/ES/1140)	10
2013-2014	Solution to the fish migration problem in "Acequia de los Charcos" weir in the Segura River (Cieza, Murcia, Spain)	Natural-like fishway: rocky ramp with perturbation boulders	Solution 1: Right bank (LIFE12 ENV/ES/1140)	11
2013-2014	Solution to the fish migration problem in "Hoya García" weir in the Segura River (Cieza, Murcia, Spain)	Vertical slot fishway	Solution 1: technical fishway (LIFE12 ENV/ES/1140)	12
2013-2014	Solution to the fish migration problem in "Hoya García" weir in the Segura River (Cieza, Murcia, Spain)	Natural-like fishway: bypass channel with perturbation boulders	Solution 2: natural-like fishway (LIFE12 ENV/ES/1140)	13
2013-2014	Solution to the fish migration problem in "El Esparragal" weir in the Segura River (Calasparra, Murcia, Spain)	Submerged notch and orifice fishway	(LIFE12 ENV/ES/1140)	14
2013-2014	Solution to the fish migration problem in "Elevación Zona 1 Postravase" weir in the Segura River (Calasparra, Murcia, Spain)	Submerged notch and orifice fishway	(LIFE12 ENV/ES/1140)	15
2013-2014	Solution to the fish migration problem in "Cañaverosa" weir in the Segura River (Moratalla, Murcia, Spain)	Submerged notch and orifice fishway	(LIFE12 ENV/ES/1140)	16
2013-2014	Solution to the fish migration problem in "La Mulata" weir in the Segura River (Calasparra, Murcia, Spain)	Cableway fishway	Preliminary draft (LIFE12 ENV/ES/1140)	17
2013-2014	Solution to the fish migration problem in the weir of the Hydropower plant "El Pedro" (Lubián, Zamora, Spain)	Submerged notch and orifice fishway	First design proposal was a Cableway fishway	18
2013-2014	Solution to the fish migration problem in the weir of "Odollo" (Castrillo de Odollo, León, Spain)	Submerged notch and orifice fishway	Different alternatives were tested: Natural-like, Denil fishpass and pool-weir type.	19
2013-2014	Modification to the solution to the fish migration problem in the weir "Once Paradas", in the Carrion River (Palencia, Spain)	Natural-like fishway: pool and weir bypass channel	Second modification to the original Solution	20
2013-2014	Solution to the fish migration problem in a weir of Arlanza River (Villahoz, Burgos, Spain)	Submerged notch and orifice fishway		21
2013-2014	Reform of the fishway or the weir "Los Redondos", Duero River (Aranda, Burgos, Spain)	Submerged notch and orifice fishway		22
2013-2014	Solution to the fish migration problem in a weir of Duero River (San Martín de Rubiales, Burgos, Spain)	Submerged notch and orifice fishway		23

2013-2014	Solution to the fish migration problem in the hydropower plant "El Vergueral" in the Duero River (Roa, Burgos, Spain)	Submerged notch and orifice fishway		24
2013-2014	Modifications during the construction of the fishway of the hydropower plant "Molino Puente de Alba" in the Bernesga River (La Pola de Gordón y La Robla, León, Spain)	Vertical slot fishway		25
2013-2014	Third phase to the solution to the fish migration problem in the hydropower plant "El Salto de San Fernando" in the Tormes River (Santibañez de Béjar, Burgos, Spain)	Submerged notch and orifice fishway	Distinguished Project in Fisheries Engineering and Ecohydrology Award 2015	26
2012-2013	Hydraulic evaluation of the fishway situated in the hydropower plant of "Ausín de Torquemada" the Pisuerga River (Spain)	Submerged notch and orifice fishway		27
2012-2013	Solution to the fish migration problem in the hydropower plant "Molino Puente de Alba" in the Bernesga River (La Pola de Gordón y La Robla, León, Spain)	Vertical slot fishway		28
2012-2013	Solution to the fish migration problem in the weir of the Hydropower plant "Salto de Matallana", in the Torío River (León, Spain)	Submerged notch and orifice fishway		29
2012-2013	Solution to the fish migration problem in "Pesquera de Tejares" weir in the Tormes River (Cieza, Murcia, Spain)	Natural-like fishway: pool and weir bypass channel	Historical weir	30
2012-2013	Hydraulic evaluation of the fishway situated in the hydropower plant of "Sardón Alto" the Duero River (Valladolid, Spain)	Submerged notch and orifice fishway	First hydraulic evaluation of Spain	31
2012-2013	Modifications during the construction of the fishway in the weir "El Carracillo" in the Cega River (Lastras de Cuéllar, Segovia Spain)	Vertical slot fishway		32
2012-2013	Modifications during the construction of the fishway in the weir "Ibienza" in the Cega River (Zarzuela del Pinar, Segovia Spain)	Vertical slot fishway		33
2012-2013	Second phase to the solution to the fish migration problem in the hydropower plant "El Salto de San Fernando" in the Tormes River (Santibañez de Béjar, Burgos, Spain)	Submerged notch and orifice fishway	Distinguished Project in Fisheries Engineering and Ecohydrology Award 2015	34
2012-2013	Solution to the fish migration problem in the hydropower plant "La Rachel" in the Arlanza River (Covarrubios, Burgos, Spain)	Vertical slot fishway		35
2012-2013	Solution to the fish migration problem in the hydropower plant "Villalarbo" in the Duero River (Villalarbo, Zamora, Spain)	Vertical slot fishway	Double slot and 2 entrances	36
2012-2013	Modification to the project of the fishway situated in the hydropower plant of "la Flecha" the Tormes River (Spain)	Submerged notch and orifice fishway		37
2011-2012	Solution to the fish migration problem in the weir of "Mularroya reservoir" in the Jalón River (Zaragora, Spain)	Fish lock		38
2012-2013	First phase to the solution to the fish migration problem in the hydropower plant "El Salto de San Fernando" in the Tormes River (Santibañez de Béjar, Burgos, Spain)	Submerged notch and orifice fishway	Distinguished Project in Fisheries Engineering and Ecohydrology Award 2015	39
2011-2012	Solution to the fish migration problem in the "Ermita de la Magdalena" weir in the Henares River (Villares de Jadraque, Guadalajara, Spain)	Natural-like fishway: bypass channel with perturbation boulders		40
2011-2012	Solution to the fish migration problem in the weir of "Jadraque" in the Henares River (Jadraque, Guadalajara, Spain)	Natural-like fishway: pool and weir bypass channel		41
2011-2012	Modification to the solution to the fish migration problem in the weir "Once Paradas", in the Carrion River (Palencia, Spain)	Natural-like fishway: pool and weir bypass channel	First modification to the original solution	42

2011-2012	Solution to the fish migration problem in the weir of "Quintanilla de Onésimo" in the Duero River (Quintanilla de Onésimo, Valladolid, Spain)	Natural-like fishway: pool and weir bypass channel		43
2011-2012	Solution to the fish migration problem in a weir of the Cega River (Cuéllar, Segovia, Spain)	Natural-like fishway: pool and weir bypass channel		44
2010-2011	Solution to the fish migration problem in the weir of "Peñañiel" in the Duero River (Peñañiel, Valladolid, Spain)	Vertical slot fishway + Submerged notch and orifice fishway		45
2010-2011	Solution to the fish migration problem in "Torremolalbo" weir in the Najerilla River (Torremolalbo, La Rioja, Spain)	Natural-like fishway: rocky ramp with perturbation boulders		46
2010-2011	Solution to the fish migration problem in the weir of "San Esteban de Gormaz" in the Duero River (San Esteban de Gormaz, Soria, Spain)	Vertical slot fishway		47
2010-2011	Solution to the fish migration problem in the weir of the hydroelectric power plant of "Sardón Alto", in the Duero River (Sardón de Duero, Valladolid, Spain)	Submerged notch and orifice fishway		48
2010-2011	Solution to the fish migration problem in the weir of "Alcañiz" in the Guadalupe River (Alcañiz, Teruel, Spain)	Natural-like fishway: pool and weir bypass channel		49
2010-2011	Solution to the fish migration problem in the "Bombeo de la Talanquera" weir in the Jalón River (Aragón, Spain)	Natural-like fishway: pool and weir bypass channel		50
2010-2011	Solution to the fish migration problem in "Quinta" bridge in the Arlanzón River (Burgos, Spain)	Natural-like fishway: rocky ramp with perturbation boulders	3D design	51
2010-2011	Biological and hydraulic evaluation and improvement proposal of the pool and weir fishway of the hydroelectric power plant "Molino de Andrés" in the Águeda River (El Bodón, Salamanca, Spain).	Submerged notch fishway		52
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Arañuel" bridge in the Mijares River	Rocky pre-barrages	Restoration of the watershed of Júcar River	53
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Cirat" bridge in the Mijares River	Natural-like fishway: rocky ramp with perturbation boulders	Restoration of the watershed of Júcar River	54
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Espadilla" bridge in the Mijares River	Natural-like fishway: rocky ramp with perturbation boulders	Restoration of the watershed of Júcar River	55
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Montanejos " 1st bridge in the Mijares River	Rocky pre-barrages	Restoration of the watershed of Júcar River	56
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Montanejos " 2nd bridge in the Mijares River	Natural-like fishway: rocky ramp with perturbation boulders	Restoration of the watershed of Júcar River	57
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Montanejos " 3rd bridge in the Mijares River	Rocky pre-barrages	Restoration of the watershed of Júcar River	58
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Montanejos " 4th bridge in the Mijares River	Rocky pre-barrages	Restoration of the watershed of Júcar River	59
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Torrechiva " bridge in the Mijares River	Natural-like fishway: rocky ramp with perturbation boulders	Restoration of the watershed of Júcar River	60
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Tunel " weir in the Jardin River	Natural-like fishway: pool and weir bypass channel	Restoration of the watershed of Júcar River	61
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Peña de los Peñoncicos" weir in the Jardin River	Rocky pre-barrages	Restoration of the watershed of Júcar River	62
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "La Boquera" weir in the Jardin River	Conditioning	Restoration of the watershed of Júcar River	63
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "El Cortijo" weir in the Jardin River	Natural-like fishway: pool and weir bypass channel	Restoration of the watershed of Júcar River	64

2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Molino" weir in the Jardín River	Submerged notch and orifice fishway	Restoration of the watershed of Júcar River	65
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Zarzalejo" weir in the Jardín River	Natural-like fishway: pool and weir bypass channel	Restoration of the watershed of Júcar River	66
2010-2011	Solution to the fish migration problem in the watershed of Júcar River: "Compuertas" weir in the Jardín River	Rocky pre-barrages	Restoration of the watershed of Júcar River	67
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Beneixama" weir in the Vinalopó River	Submerged notch and orifice fishway	Restoration of the watershed of Júcar River	68
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Acequia Mayor" weir in the Vinalopó River	Submerged notch and orifice fishway	Restoration of the watershed of Júcar River	69
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Coveta" weir in the Vinalopó River	Conditioning	Restoration of the watershed of Júcar River	70
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Moli Lombria" weir in the Vinalopó River	Conditioning	Restoration of the watershed of Júcar River	71
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Moli Serella" weir in the Vinalopó River	Conditioning	Restoration of the watershed of Júcar River	72
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Zarnina" weir in the Cabriel River	Natural-like fishway: pool and weir bypass channel	Restoration of the watershed of Júcar River	73
2009-2010	Solution to the fish migration problem in the fish farm weir of Aguilar de Campoo in the Pisuerga River (Aguilar de Campoo, Palencia, Spain)	Natural-like fishway: pool and weir bypass channel		74
2009-2010	Solution to the fish migration problem in the weir of "La Flecha" in the Tormes River (La Flecha, Salamanca, Spain)	Submerged notch and orifice fishway		75
2009-2010	Solution to the fish migration problem in the weir of "Vadocondes" in the Duero River (Vadocondes, Burgos, Spain)	Vertical slot fishway	Part of the work has been submitted to Journal of Hydraulic Engineering	76
2009-2010	Solution to the fish migration problem in "Once Paradass" weir in the Carrión River (Palencia, Spain)	Natural-like fishway: pool and weir bypass channel		77
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Moli Serella" weir in the Turia River	Conditioning	Restoration of the watershed of Júcar River	78
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Gestalgar" weir in the Turia River	Submerged notch and orifice fishway	Restoration of the watershed of Júcar River	79
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Pedralba" weir in the Turia River	Submerged notch and orifice fishway	Restoration of the watershed of Júcar River	80
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Bugarra" weir in the Turia River	Submerged notch and orifice fishway	Restoration of the watershed of Júcar River	81
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Molino de Landete" weir in the Ojos de Molla River	Natural-like fishway: pool and weir ramp	Restoration of the watershed of Júcar River	82
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Molino Ribes" weir in the Ojos de Molla River	Natural-like fishway: rocky ramp with perturbation boulders	Restoration of the watershed of Júcar River	83
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Garaballa" weir in the Ojos de Molla River	Natural-like fishway: pool and weir bypass channel	Restoration of the watershed of Júcar River	84
2009-2010	Solution to the fish migration problem in the watershed of Júcar River: "Galeno" weir in the Ojos de Molla River	Natural-like fishway: pool and weir bypass channel	Restoration of the watershed of Júcar River	85