

Escola Politècnica Superior d’Enginyeria

de Vilanova i la Geltrú

Doc 3/1-2020

**Encàrrec Docent EPSEVG**

**2020/21**

V1

Comissió de Coordinació Docent

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Doc 4/1-2020. EXCEL - Previsions de matricula i grups 2020/21

Doc 5/1-2020. EXCEL - Encàrrec docent per titulacions i departaments 2020/21

Doc 6/1-2020. EXCEL - Optatives 2020/21

Doc 7/1-2020. PDF - Marc per renovar i dimensionar l'oferta d'optativitat dels estudis de Grau i Master de l'EPSEVG

Doc 8/1-2020. PDF - Encarrec Docent 2020/21 Presentació

*Aquest document i els annexos es troben a l’Espai EPSEVG*

1. **Calendari i procediment per l’Encàrrec Docent UPC 2020/21**

Assignació i instruccions

El 11/12/2019 el Consell de Govern va ratificar l'assignació de punts de docència del curs 2020/21 aprovada a la Comissió de Docència i Estudiantat. D’acord amb aquest document, a l’EPSEVG li correspon realitzar l’encàrrec de la docència de grau i dels màsters per 7466 PADs.

En cas que l’assignació d’una casella (departament) comporti una diferència major de 36 punts, s’ha de justificar raonadament en document a banda. No n’hi haurà 2ª volta.

Calendari

        Data límit per comunicar la proposta aprovada d’encàrrec docent: 28/2/2020.

        Una vegada els vicerectorats hagin analitzat l’impacte en cada departament i, en funció de la seva situació i de la capacitat de contractació de la Universitat, comunicaran als centres quines de les propostes serien viables, i quines no, i la continuació del procés.

Procediment

* Els fitxers complimentats s’han de retornar abans de la data límit a l'adreça info.pdi@upc.edu.
* Aquest encàrrec es tindrà en compte de cara a la contractació del curs vinent.

Santiago Gassó Domingo, Vicerector de política acadèmica

1. **Criteris aplicats**
	1. **Definicions.**

*ECTS: European Credit Transfer System.*

*PAD: Punts d’Activitat Docent.*

1 ECTS = 10 hores de docència presencial = 3 PADs per una presencialitat del 100%.

Assignatura de 6,0 ECTS (Graus): 60 hores de docència per grup = 18 PADs (per 1 grup gran i 1 grup petit)

Assignatura de 7,5 ECTS (Grau informàtica, fase inicial): 75 hores per grup = 22,5 PADs (per 1 gg i 1 gp)

Assignatura de 5,0 ECTS (Màsters): 50 hores de docència per grup = 13,5 PADs (1 gg i 1gp) per un 90%

de presencialitat (MUESAEI).

* 1. **Condicions inicials. Punts assignats i mida de grups.**

**Punts assignats**

* PADs assignats a l’EPSEVG per l’any 2020/21: ..................................................... **7466,00 PADs (\*)**
* PADs assignats a l’EPSEVG per l’any acadèmic anterior 2019/20: ....................... 7444,00 PADs

(\*) Es permet un excés per sobre dels punts assignats que sigui inferior al 0.5% del total de punts (37,33 PADs) amb el que resulta un límit màxim de **7503,33 PADs**

**Mida de grups**

* Mida màxima estàndard de grups a l’EPSEVG:
	+ 60 estudiants per grup gran (teoria) en general.
	+ 20 estudiants per grup petit (laboratori) en general (\*)

(\*) Per assignatures que fan servir laboratoris amb altres restriccions, la mida dels grups petits pot ser inferior: 17, 16, 15, 12, 10 o 9 estudiants. Veure apartats 3.1 i 3.2

* 1. **Aplicació de propostes acordades per l’any 2020/21.**
* Mantenir el curs d’anivellament als estudis de grau, per Matemàtiques i Física, amb una previsió de 27,45 PADs. Preveure un màxim de 60 estudiants als graus de l’Àrea Industrial, Disseny i Informàtica, amb l’objectiu d’adequar el nivell dels estudiants de nou ingrés que més ho requereixen”
* Aplicar la renovació de les assignatures optatives especifiques i transversals proposada per la Comissió de Coordinació Docent, d’acord amb el “Doc 7/1-2020 Marc per renovar i dimensionar l’oferta d’optativitat dels estudis de Grau i Màster de l’EPSEVG”, amb el resultat d’assignatures optatives assignades als departaments i itineraris optatius mostrat al “Doc 6/1-2020 Optatives 2020/21”.
* Aplicar la distribució de punts acordada entre els departaments a les assignatures compartides (4.2).
	1. **Previsions de matricula i grups: Assignatures, TFE i PREX.**
* Aplicar per cada assignatura el resultat de les previsions de matricula i de grups per l’any 2020/21, d’acord amb l’Annex “Doc 4/1-2020. Previsions de matricula i grups 2020-21”:
	+ Curs i quadrimestre d’impartició
	+ Sigles de l’assignatura
	+ Hores/setmana per el grup gran (teoria) i el grup petit (laboratori)
	+ Mida del grup petit de laboratori (apartat 3.2.)
	+ Dades de matricula i nombre de grups grans i petits als últims anys
	+ Previsió de matricula i nombre de grups grans i petits previstos per l’any 2020/21
	+ Nombre i distribució dels grups grans i petits a les titulacions
* Preveure una demanda de TFG/TFM per l’any 2020/21 que reculli els TFG i TFM dirigits realment per cada departament a cada titulació durant l’any anterior, 2018/19: 169 TFG i 29 TFM, en total 198 TFE.
* Preveure una demanda de Pràctiques externes igual a l’any anterior, per 100 estudiants, amb similar distribució per departaments i titulacions.

Aquesta informació, junt amb la informació del punt 4 del present document, és la base per:

* Obtenir els punts PAD de cada assignatura a l’encàrrec docent, amb la distribució d’aquests punts entre els departaments, les titulacions, i els quadrimestres d’impartició (Resultats).
* Elaborar els horaris de classe de cada grup gran i petit per l’any 2020/21. Només queda per decidir la distribució dels grups petits als torns horaris, d’acord amb els criteris d’elaboració dels horaris de laboratori.
	1. **Ajustos de punts finals**

Per tal d’ajustar la suma total de punts al màxim de 7503,33 PADs es proposen els ajustos següents:

* Considerar 1,43 PADs per cada estudiant de TFG/TFM previst (la diferència fins a 3,00 PADs per estudiant de TFG/TFM queda fora de l’encàrrec docent).
* Considerar 0,10 PADs per cada pràctica externa prevista (la diferència fins a 0,50 PADs per cada pràctica externa quedarà fora de l’encàrrec docent).
	1. **Variació de punts respecte l’any 2019/20**

Punts assignats a l’Encàrrec Docent 2019/20: 7466,25

* Actualització del nombre grups a la previsió de matricula, balanç net final -205,61
* Reforma assignatures optatives +49,50
* Canvi de 0,40 a 1,43 PADs per cada TFE +193,44
* Resultat = Total punts PADs a assignar a l’Encàrrec Docent EPSEVG 2020/21 7503,28

PADs en excés per sobre de 7466,00 = 37,22 < 37,33 = 0,5% de 7466

1. **Dades dels laboratoris i aules informàtiques**

**3.1. Llocs de treball i capacitat màxima per la matrícula i l’encàrrec docent.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |   |   | valor màxim |   | Capacitat màxima  |
| Nom del Laboratori docent oAula informàtica | codi | llocs treball | est/lloc | Num. est | **matrícula i encàrrec****docent** |
| Màquines Elèctriques | VGA-016 | 3 | 3 | 9 | **9** |
| Mesures Elèctriques (3) | VGA-017 | 3 | 3 - 4 | 9 - 12 | **9 - 12** |
| Prototipatge Digital | VGA-018 | 4 | 3 | 12 | **12** |
| Tractaments tèrmics (1) | VGA-020 | 4 | 2 | 8 | **15** |
| Disseny Producte  | VGA-023 | 10 | 2 | 20 | **20** |
| Assaig de Materials 1 | VGA-024 | 5 | 3 | 15 | **15** |
| Maquetes i Prototips | VGA-025 | 10 | 2 | 20 | **20** |
| Mecànica i Resistència Materials (2) | VGA-027 | 12 | 2 | 24 | **17 - 20** |
| Assaig de Materials 2 | VGA-028 | 5 | 3 | 15 | **15** |
| Mecànica de Fluids i Motors Tèrmics (1) | VGA-029 | 2 | 4 | 8 | **15** |
| Química (2) | VGA-040 | 20 | 1 | 20 | **17 - 20** |
| Disseny de Sistemes Interactius | VGA-104 | 10 | 2 | 20 | **20** |
| Automàtica i Sistemes de Control | VGA-106 | 7 | 3 | 21 | **20** |
| Física | VGA-114 | 12 | 2 | 24 | **20** |
| Sensors i Control de Processos (2) | VGA-115 | 8-10 | 2 | 16- 20 | **16 - 20** |
| Circuits (2) | VGA-116 | 8-10 | 2 | 16- 20 | **16 - 20** |
| Electrònica Bàsica | VGA-118 | 8 | 4 | 32 | **20** |
| Control Avançat | VGA-120 | 8 | 2 | 16 | **16** |
| Aula informàtica A105 | VGA-105 | 20 | 1,50 | 30 | **20** |
| Aula informàtica A107 | VGA-107 | 12 | 1,00 | 28 | **20** |
| Aula informàtica A108 | VGA-108 | 20 | 1,40 | 28 | **20** |
| Aula informàtica A109 | VGA-109 | 15 | 1,60 | 24 | **20** |
| Aula informàtica A111 | VGA-111 | 15 | 1,60 | 24 | **20** |
| Aula informàtica A123 | VGA-123 | 20 | 1,20 | 24 | **20** |
| Aula informàtica A162 | VGA-162 | 14 | 1,43 | 20 | **20** |
| Aula informàtica B101 | VGB-101 | 15 | 1,00 | 15 | **16** |

1. VGA-020 i VGA-029: la capacitat de 15 estudiants prevista implica la realització de dos

torns de com a màxim 8 estudiants cadascun, que corresponen a 4 (o 2) llocs de treball

amb 2 (o 4) estudiants per cada lloc.

1. Per un millor funcionament de les pràctiques als laboratoris VGA-115, VGA-116, VGA-040 s’ha

previst una capacitat inferior a 20 a les assignatures següents:

- Capacitat = 17 : N4 : SIEK, ND1: QUIM, D6: DIME

- Capacitat = 16 : K4 : ELDI; K5: ELAN, SIDI; E6: INEL; D5: SEDI,

- Capacitat = 12 : R2: SENS , SETR, INAM, SIDI, XACO, GEEN

 (3) Es procurarà una capacitat de 9 estudiants (en lloc de 12) en les assignatures en que sigui possible.

**3.2. Assignatures amb grups de laboratori de mida diferents a 20 estudiants.**

|  |  |  |  |
| --- | --- | --- | --- |
| Laboratori | capacitat | grup  | assignatura |
| VGA-016 | 9 | K4 | ELEC |
| VGA-016 | 9 | E4 | MAE1 |
| VGA-016 | 9 |  E5 | MAE2 |
| VGA-016 | 9 | E6 | ACEL |
| VGA-016,123 | 10 | R1 | MCME, DIAP |
| VGA-016,123 | 12 | R1 | SIAC, SEAI, SIOP |
| VGA-115/116 | 12 | R2 | SENS, SETR, INAM, SIDI, XACO, GEEN |
| VGA-120 | 12 | R3 | PRDM, ROVI, TEIN, AUDI, CMIX, SCTR  |
| VGA-017 | 12 | N3, D4 | SIEL |
| VGA-017 | 12 | K5 | REAU |
| VGA-106,111,214 | 12 | E6 | IEAI, CEER, SIEP |
| VGA-018 | 12 | D3 | MAPR |
| VGA-020 | 15 | D5 | PRFA |
| VGA-020 | 15 | M5 | MAES |
| VGA-020 | 15 | M7 | MA3D, ENSU |
| VGA-020 | 15 | D7 | MATD |
| VGA-020 | 15 | D7+M7 | EFFI |
| VGA-028 | 15 | D5 | PRFA |
| VGA-028 | 15 | M5 | MAES |
| VGA-028 | 15 | M7 | MA3D, ENSU |
| VGA-028 | 15 | D7 | MATD |
| VGA-028 | 15 | D7+M7 | EFFI |
| VGA-028 | 15 | N2+D2 | CIMA |
| VGA-029 | 15 | N3 | FENT, MFLU |
| VGA-029 | 15 | M6 | ENFL, ETER |
| VGA-029 | 15 | D3 | MECA |
| VGA-108,105 | 15 | D2 | MADI |
| VGA-108 | 15 | E4 | CIEL |
| VGA-108,105,106,162 | 15 | E5 | ELPO, LIEL, REAU |
| VGA-209 | 15 | N7 | GEPR |
| VGA-209,111 | 15 | M7 | MATH |
| VGA-211 | 15 | X8 | HADP |
| VGB-107,VGA-212,213 | 16 | E7 | VEEH, SIFE, GSEP |
| VGA-115/116 | 16 | K5 | ELAN, SIDI |
| VGA-115/116 | 16 | K4 | ELDI |
| VGA-115/116 | 16 | D5 | SEDI |
| VGA-115/116 | 16 | E6 | INEL |
| VGA-109,120 | 16 | K6 | ELPO, ENCO |
| VGA-024,027 | 16 | M7 | DMAO |
| VGA-040 | 17 | ND1 | QUIM |
| VGA-115/116 | 17 | N4 | SIEK |
| VGA-027 | 17 | D6 | DIME |
| --- | 17 | N3+D3 | ESTA |
| --- | 25 | D7 | MARK |
| --- | 30 | D4, N3 | EMPR |

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| 1. **Assignació d’assignatures als departaments.**

**4.1. Assignatures optatives i itineraris d’optativitat**Desprès d’aplicar el Marc per renovar i dimensionar l’oferta d’optativitat dels estudis de Grau i Màster de l’EPSEVG, a les comissions de Titulació i la Comissió de Coordinació Docent, s’han otingut la proposta d’assignatures optatives i itineraris optatius que es recullen al “Doc 6/1-2020 Optatives 2020/21”:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |   | **Especifiques** |   |  |  |  |  |
| Nom Itinerari d'Optativitat: | depts | tit | cur | codi | sigla | nom assignatura | CreditsECTS | Pad/gg | Pad/gp |
|  | **DISSENY IND. I D.P.** |  |  |  |  |  |  |  |
| Disseny centrat en l’usuari i disseny inclusiu  | 707 | D1 | 7 | 340263 | INPS | Interacció persona-sistema | 6 | 13,50 | 4,50 |
|   | 744 | D1 | 7 | 340265 | DIDU | Disseny inclusiu i disseny centrat en l'usuari | 6 | 9,00 | 9,00 |
|   | 717,732 | D1 | 7 | 340268 | ENUA | Enginyeria de la usabilitat i l'accessibilitat | 6 | 13,50 | 4,50 |
| Disseny i fabricació de productes | 702 | D2 | 7 | 340271 | MATD | Materials per al Disseny | 6 | 13,50 | 4,50 |
|   | 702 | D2 | 7 | 340202 | EFFId | Enginyeria Forense i Fiabilitat Industrial (D) | 6 | 13,50 | 4,50 |
|   | 702,717 | D2 | 7 | 340273 | DPMO | Disseny i prototipatge de motlles (M, D) | 6 | 13,50 | 4,50 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **MECÀNICA** |  |  |  |  |  |  |  |  |
| Enginyeria de processos de fabricació | 702 | M1 | 7 | 340200 | ENSU | Enginyeria de superficies  | 6 | 13,50 | 4,50 |
|   | 702 | M1 | 7 | 340201 | MA3D | Manufactura avançada 3D | 6 | 13,50 | 4,50 |
|   | 702 | M1 | 7 | 340202 | EFFIm | Enginyeria Forense i Fiabilitat Industrial (M) | 6 | 13,50 | 4,50 |
| Calcul, Disseny i Fabricació de Maquines | 729 | M2 | 7 | 340208 | MATH | Màquines tèrmiques i hidràuliques | 6 | 15,75 | 2,25 |
|   | 712 | M2 | 7 | 340207 | DMAO | Disseny de màquines assistit per ordinador | 6 | 13,50 | 4,50 |
|   | 712 | M2 | 7 | xx | TMAO | Teoria de maquines assistida per ordinador | 6 | 13,50 | 4,50 |
|   | 712 | M2, D | 7 | xx | OPCM | Operació i Programació de Centres de Mecanitzat | 6 | 13,50 | 4,50 |
| Calcul d'estructures i inst. industrials | 737 | M3 | 7 | 340203 | TESA | Tècniques experimentals i de simulació d'anàlisi de tensions | 6 | 13,50 | 4,50 |
|   | 737 | M3 | 7 | xx | CEAO | Calcul d'estructures assistit per ordinador | 6 | 13,50 | 4,50 |
|   | 709 | M3 | 7 | xx | IEEE | *Inst. Electriques i Efic. Energètica (\*Nom a confirmar\*)* | 6 | 13,50 | 4,50 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **ELECTRÒNICA IND. I AUTOM.** |  |  |  |  |  |
| Tecnologies avançades d'automatització | 707 | K1 | 7 | 340240 | SIPI | Sistemes de producció integrats | 6 | 9,00 | 9,00 |
|   | 707 | K1 | 7 | 340242 | SDIN | Sistemes distribuïts industrials | 6 | 9,00 | 9,00 |
|   | 710 | K1 | 7 | 340245 | SIIN | Sistemes d'instrumentació | 6 | 9,00 | 9,00 |
| Energies renovables | **709** | **K2E** | **7** | **340243** | **FSER** | **Fonts i Sistemes d'Energies Renovables** | 6 | 13,50 | 4,50 |
|   | 710 | K2E | 7 | xx | ESER | Electrònica als Sistemes d'Energies Renovables | 6 | 13,50 | 4,50 |
|   | 709 | K2E | 7 | 340229 | GEEL | Gestió i estalvi d'energia elèctrica  | 6 | 13,50 | 4,50 |
| Mobilitat elèctrica | 709 | K3E | 7 | 340221 | VEEH | Vehicles elèctrics i híbrids | 6 | 13,50 | 4,50 |
|   | 709 | K3E | 7 | xx | MMEL | Motors i mobilitat elèctrica | 6 | 13,50 | 4,50 |
|   | **710** | **K3E** | **7** | **xx** | **SIGB** | **Sistemes de gestió de bateries** | 6 | 13,50 | 4,50 |
|  |  |  |  |  |   |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **ELECTRICITAT** |  |  |  |  |  |  |  |  |
| Energies renovables | **709** | **E1K** | **7** | **340243** | **FSER** | **Fonts i Sistemes d'Energies Renovables** | 6 | 13,50 | 4,50 |
|   | 710 | E1K | 7 | xx | ESER | Electrònica als Sistemes d'Energies Renovables | 6 | 13,50 | 4,50 |
|   | 709 | E1K | 7 | 340229 | GEEL | Gestió i estalvi d'energia elèctrica  | 6 | 13,50 | 4,50 |
| Mobilitat elèctrica | 709 | E2K | 7 | 340221 | VEEH | Vehicles elèctrics i híbrids | 6 | 13,50 | 4,50 |
|   | 709 | E2K | 7 | xx | MMEL | Motors i mobilitat elèctrica | 6 | 13,50 | 4,50 |
|  | **710** | **E2K** | **7** | **xx** | **SIGB** | **Sistemes de gestió de bateries** | 6 | 13,50 | 4,50 |
|  |  |   |   |   |   |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **INFORMATICA** |  |  |  |  |  |  |  |
| Tecnologies mòbils | 723 | I1 | 7 | 340453 | DAMO | Desenvolupament d'aplicacions mòbils | 6 | 9,00 | 9,00 |
|   | 723 | I1 | 7 | 340456 | PMUD | Programació multiplataforma i distribuïda | 6 | 9,00 | 9,00 |
|   | 744 | I1 | 8 | 340460 | XASF | Xarxes sense fils: Tecnologies i aplicacions | 6 | 9,00 | 9,00 |
| Enginyeria de dades  | 723 | I2 | 7 | 340455 | REIN | Recuperació de la Informació | 6 | 9,00 | 9,00 |
|   | 723 | I2 | 7 | 340458 | MIDA | Mineria de Dades | 6 | 9,00 | 9,00 |
|   | 701 | I2 | 8 | xx | SMAC | Smart Cities | 6 | 9,00 | 9,00 |
| TIC i entorn empresarial | 732 | I3 | 8 | 340385 | GEET | Gestió d'empreses TIC | 6 | 13,50 | 4,50 |
|   | 732 | I3 | 7 | 340381 | EESO | Economia, ètica i societat | 6 | 13,50 | 4,50 |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **MUESAEI** |  |  |  |  |  |  |  |  |
| Control i Automatització de Sistemes | 707,710,744 | R1 | 3 | 340638 | AUDI | Automatització i Digitalització Industrial | 5 | 9,00 | 4,50 |
|   | **710** | **R1** | **3** | **xx** | **CMIX** | **Control de Microxarxes** | 5 | 9,00 | 4,50 |
|   | **707** | **R1** | **3** | **xx** | **SCTR** | **Sistemes de control en temps real per a aplicacions ind.** | 5 | 9,00 | 4,50 |
| Sistemes Interactius | 701 | R2 | 3 | 340625 | TEIN | Tecnologies d'internet | 5 | 9,00 | 4,50 |
|   | 707 | R2 | 3 | 340621 | ROVI | Robòtica i Visió | 5 | 9,00 | 4,50 |
|   | 707 | R2 | 3 | 340622 | PRDM | Programació de Dispositius Mòbils | 5 | 4,50 | 9,00 |
|  |  |   |   |   |   |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |   | **Transversals:** |   |  |  |  |  |
| Nom Itinerari d'Optativitat: | depts | tit | curs | codi | sigla | nom assignatura | CreditsECTS | Pads/gg | Pads/gp |
|  |  |  |  |  |  |  |  |  |  |
| Internacional | 756 | DNI | 7 | 340280 | TEEE | Tècniques d'escriptura per l'enginyeria | 6 | 13,50 | 4,50 |
|   | 756 | DNI | 7 | 340281 | TCAP | Tècniques de comunicació acadèmiques i professiona | 6 | 0,00 | 18,00 |
|   | 756 | DNI | 8 | 340282 | HADP | Habilitats acadèmiques pel desenvolupament d'un pr | 6 | 13,50 | 4,50 |
|   | 756 | DNI | 8 | 340283 | PRTL | Pràctica en tercera llengua | 3 | 0,00 | 9,00 |
| Social | 710,729 | DNI | 8 | 340004 | SOAP | Sostenibilitat aplicada | 6 | 9,00 | 9,00 |
|   | 709,744 | DNI | 8 | 340005 | ACAP | Accessibilitat aplicada | 6 | 9,00 | 9,00 |
|   | **707, 732** | **DNI** | **8** | **xx** | **TROS** | **Taller de Robotica Social** | 6 | 9,00 | 9,00 |
| Equips | **709, 717, 756** | **DNI** | **8** | **xx** | **EMOB** | **Emobility** | 6 | 13,50 | 4,50 |
|   | **709, 717, 756** | **DNI** | **8** | **xx** | **EMOL** | **Emobility-Lab** | 6 | 13,50 | 4,50 |
|   | 709 | DNI | 8 | xx | AGIL | Agil | 6 | 9,00 | 9,00 |

**4.2. Assignatures compartides entre departaments: Repartiment de punts**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **dept** | **tit** | **curs** | **codi** | **sigla** | **assignatura** | **cred** | **tipus** | **percent** |
|  |  |  |  |  |  |  |  |  |
| **Graus** |  |  |  |  | **Obligatòries** |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 710 | DEKM | 1 | 340003 | SOAC | Sostenibilitat i accessibilitat  | 6 | OB | 10,54% |
| 713 | DEKM | 1 | 340003 | SOAC | Sostenibilitat i accessibilitat | 6 | OB | 28,92% |
| 709 | DEKM | 1 | 340003 | SOAC | Sostenibilitat i accessibilitat  | 6 | OB | 12,50% |
| 729 | DEKM | 1 | 340003 | SOAC | Sostenibilitat i accessibilitat | 6 | OB | 10,54% |
| 744 | DEKM | 1 | 340003 | SOAC | Sostenibilitat i accessibilitat  | 6 | OB | 37,50% |
|  |  |  |  |  |  |  |  |  |
| 702 | D | 3 | 340072 | TAD1 | Taller de disseny I | 6 | OB | 10,00% |
| 712 | D | 3 | 340072 | TAD1 | Taller de disseny I | 6 | OB | 15,00% |
| 717 | D | 3 | 340072 | TAD1 | Taller de disseny I | 6 | OB | 30,00% |
| 732 | D | 3 | 340072 | TAD1 | Taller de disseny I | 6 | OB | 30,00% |
| 737 | D | 3 | 340072 | TAD1 | Taller de disseny I | 6 | OB | 15,00% |
|  |  |  |  |  |  |  |  |  |
| 712 | D | 3 | 340073 | MECA | Mecànica | 6 | OB | 80,00% |
| 729 | D | 3 | 340073 | MECA | Mecànica | 6 | OB | 20,00% |
|  |  |  |  |  |  |  |  |  |
| 702 | D | 4 | 340076 | TAD2 | Taller de disseny II | 6 | OB | 20,00% |
| 712 | D | 4 | 340076 | TAD2 | Taller de disseny II | 6 | OB | 20,00% |
| 717 | D | 4 | 340076 | TAD2 | Taller de disseny II | 6 | OB | 20,00% |
| 732 | D | 4 | 340076 | TAD2 | Taller de disseny II | 6 | OB | 20,00% |
| 737 | D | 4 | 340076 | TAD2 | Taller de disseny II | 6 | OB | 20,00% |
|  |  |  |  |  |  |  |  |  |
| 712 | D | 5 | 340078 | DIAO | Disseny assistit per ordinador | 6 | OB | 33,33% |
| 717 | D | 5 | 340078 | DIAO | Disseny assistit per ordinador | 6 | OB | 33,33% |
| 737 | D | 5 | 340078 | DIAO | Disseny assistit per ordinador | 6 | OB | 33,33% |
|  |  |  |  |  |  |  |  |  |
| 717 | DEKM | 6 | 340037 | GEPR | Gestió de projectes  | 6 | OB | 75,00% |
| 732 | DEKM | 6 | 340037 | GEPR | Gestió de projectes  | 6 | OB | 25,00% |
|  |  |  |  |  |  |  |  |  |
| 702 | D | 6 | 340084 | TAD3 | Taller de disseny III | 6 | OB | 30,00% |
| 712 | D | 6 | 340084 | TAD3 | Taller de disseny III | 6 | OB | 25,00% |
| 717 | D | 6 | 340084 | TAD3 | Taller de disseny III | 6 | OB | 10,00% |
| 732 | D | 6 | 340084 | TAD3 | Taller de disseny III | 6 | OB | 10,00% |
| 737 | D | 6 | 340084 | TAD3 | Taller de disseny III | 6 | OB | 25,00% |
|  |  |  |  |  |  |  |  |  |
| 709 | E | 5 | 340036 | ORPR | Organització de la producció | 6 | OB | 40,00% |
| 732 | E | 5 | 340036 | ORPR | Organització de la producció | 6 | OB | 60,00% |
|  |  |  |  |  |  |  |  |  |
| 712 | M | 6 | 340060 | DSAO | Disseny i simulació assistit per ord. | 6 | OB | 33,33% |
| 717 | M | 6 | 340060 | DSAO | Disseny i simulació assistit per ord. | 6 | OB | 33,33% |
| 737 | M | 6 | 340060 | DSAO | Disseny i simulació assistit per ord. | 6 | OB | 33,33% |
|  |  |  |  |  |  |  |  |  |
| **Graus** |  |  |  |  | **Optatives** |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 707 | D | 7 | 340263 | INPS | Interacció persona-sistema | 6 | OPT | 100,00% |
| 732 | D | 7 | 340263 | INPS | Interacció persona-sistema | 6 | OPT | 0,00% |
|  |  |  |  |  |  |  |  |  |
| 717 | D | 7 | 340268 | ENUA | Enginyeria de la usabilitat i l'accessib. | 6 | OPT | 50,00% |
| 732 | D | 7 | 340268 | ENUA | Enginyeria de la usabilitat i l'accessib. | 6 | OPT | 50,00% |
|  |  |  |  |  |  |  |  |  |
| 702 | D | 7 | 340273 | DPMO | Disseny i prototip de motllos  | 6 | OPT | 66,67% |
| 717 | D | 7 | 340273 | DPMO | Disseny i prototip de motllos  | 6 | OPT | 33,33% |
|  |  |  |  |  |  |  |  |  |
| 709 | K | 7 | 340243 | FSER | Fonts i Sistemes d'Energies Renov. | 6 | OPT | 100 % |
| 710 | K | 7 | 340243 | FSER | Fonts i Sistemes d'Energies Renov. | 6 | OPT | 0 % |
|  |  |  |  |  |  |  |  |  |
| 709 | K | 7 | xxx | SIGB | Sistemes de gestió de bateries | 6 | OPT | 0 % |
| 710 | K | 7 | xxx | SIGB | Sistemes de gestió de bateries | 6 | OPT | 100 % |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 710 | DEKMI | 8 | 340004 | SOAP | Sostenibilitat aplicada | 6 | OPT | 50,00% |
| 729 | DEKMI | 8 | 340004 | SOAP | Sostenibilitat aplicada | 6 | OPT | 50,00% |
|  |  |  |  |  |  |  |  |  |
| 709 | DEKMI | 8 | 340005 | ACAP | Accessibilitat aplicada | 6 | OPT | 66,67% |
| 744 | DEKMI | 8 | 340005 | ACAP | Accessibilitat aplicada  | 6 | OPT | 33,33% |
|  |  |  |  |  |  |  |  |  |
| 707 | DEKMI | 8 | xxx | TROS | Taller de Robotica Social | 6 | OPT | 50 % |
| 732 | DEKMI | 8 | xxx | TROS | Taller de Robotica Social | 6 | OPT | 50 % |
|  |  |  |  |  |  |  |  |  |
| 709 | DEKMI | 8 | xxx | EMOB | Emobility | 6 | OPT | 50 % |
| 717 | DEKMI | 8 | xxx | EMOB | Emobility | 6 | OPT | 30 % |
| 756 | DEKMI | 8 | xxx | EMOB | Emobility | 6 | OPT | 20 % |
|  |  |  |  |  |  |  |  |  |
| 709 | DEKMI | 8 | xxx | EMOL | Emobility-Lab | 6 | OPT | 75 % |
| 717 | DEKMI | 8 | xxx | EMOL | Emobility-Lab | 6 | OPT | 25 % |
|  |  |  |  |  |  |  |  |  |
| **MUESAEI**  |  |  |  | **Obligatòries i optatives** |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 707 | R | 2 | 340608 | SETR | Sistemes Encastats i de Temps Real | 5 | OB | 50,00% |
| 710 | R | 2 | 340608 | SETR | Sistemes Encastats i de Temps Real | 5 | OB | 50,00% |
|  |  |  |  |  |  |  |  |  |
| 709 | R | 2 | 340610 | GEEN | Gestió de l'Energia | 5 | OB | 50,00% |
| 710 | R | 2 | 340610 | GEEN | Gestió de l'Energia | 5 | OB | 50,00% |
|  |  |  |  |  |  |  |  |  |
| 707 | R | 3 | 340638 | AUDI | Automatització i Digitalització Industrial | 6 | OPT | 50,00% |
| 710 | R | 3 | 340638 | AUDI | Automatització i Digitalització Industrial | 6 | OPT | 25,00% |
| 744 | R | 3 | 340638 | AUDI | Automatització i Digitalització Industrial | 6 | OPT | 25,00% |
|  |  |  |  |  |  |  |  |  |
| 707 | R | 3 | xxx | CMIX | Control de microxarxes | 5 | OPT | 0 % |
| 710 | R | 3 | xxx | CMIX | Control de microxarxes | 5 | OPT | 100 % |
|  |  |  |  |  |  |  |  |  |
| 707 | R | 3 | xxx | SCTR | Sistemes de control en temps real per a aplicacions industrials. | 5 | OPT | 100 % |
| 710 | R | 3 | xxx | SCTR | Sistemes de control en temps real per a aplicacions industrials. | 5 | OPT | 0 % |
|  |  |  |  |  |  |  |  |  |
| **MBDesign** |  |  |  | **Obligatòries** |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 717 | B | 1 | 210601 | DTC | Design, theory and criticism | 5 | OB | 50,00% |
| 749 | B | 1 | 210601 | DTC | Design, theory and criticism | 5 | OB | 50,00% |
|   |   |   |   |   |   |   |   |   |
| 717 | B | 1 | 210602 | DPE | Design, project and environment | 5 | OB | 50,00% |
| 749 | B | 1 | 210602 | DPE | Design, project and environment | 5 | OB | 50,00% |
|   |   |   |   |   |   |   |   |   |
| 717 | B | 1 | 210603 | DTI | Design, technology and innovation | 5 | OB | 50,00% |
| 749 | B | 1 | 210603 | DTI | Design, technology and innovation | 5 | OB | 50,00% |
|   |   |   |   |   |   |   |   |   |
| 717 | B | 1 | 210625 | DS | Design and Society  | 5 | OB | 100,00% |
| 744 | B | 1 | 210625 | DS | Design and Society | 5 | OB | 0,00% |
|   |   |   |   |   |   |   |   |   |
| 701 | B | 1 | 210627 | DAA | Data Driven Design | 5 | OB | 100,00% |
|   |   |   |   |   |   |   |   |   |
| 717 | B | 1 | 210629 | MPI | Methods and Processes of Research in Innovative Design and Technology | 5 | OB | 50,00% |
| 749 | B | 1 | 210629 | MPI | Methods and Processes of Research in Innovative Design and Technology | 5 | OB | 50,00% |
|   |   |   |   |   |   |   |   |   |
| 717 | B | 2 | 210626 | CXT | Creativity net and technology | 5 | OB | 100,00% |
|   |   |   |   |   |   |   |   |   |
| 702 | B | 2 | 210628 | DPSC | Design processes in complex systems | 5 | OB | 33,33% |
| 729 | B | 2 | 210628 | DPSC | Design processes in complex systems | 5 | OB | 33,33% |
| 749 | B | 2 | 210628 | DPSC | Design processes in complex systems | 5 | OB | 33,33% |
|   |   |   |   |   |   |   |   |   |
| 717 | B | 2 | 210630 | IDT | Innovation-Research in Design and Technology | 5 | OB | 50,00% |
| 749 | B | 2 | 210630 | IDT | Innovation-Research in Design and Technology | 5 | OB | 50,00% |

 |  |  |  |

**4.3. EPS – European Project Semester**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **dept** | **tit** | **curs** | **codi** | **sigles** |  | **cred** | **tipus** | **percentgg** | **percentpg** | **punts gg** | **punts gp** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 701 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 10,53% |  | 6,00 |  |
| 707 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 7,89% |  | 4,50 |  |
| 710 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 2,63% |  | 1,50 |  |
| 713 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 1,75% |  | 1,00 |  |
| 717 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 28,07% |  | 16,00 |  |
| 729 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 5,26% |  | 3,00 |  |
| 732 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 12,28% |  | 7,00 |  |
| 749 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 10,53% |  | 6,00 |  |
| 756 | P | 8 | 340284 | EPSE |  | 6 | OPT |  | 21,05% |  | 12,00 |  |
|  |  | 100,00% |  | 57,00 |  |

*Distribució realitzada a proposta del sotsdirector de relacions internacionals, d’acord amb els departaments.*

**5. Resum de resultats de l’encàrrec docent EPSEVG 2020/21**

En aplicació dels punts anteriors, s’obté l’Encàrrec Docent EPSEVG 2020/21 detallat per assignatures:

**5.1. Resum de punts per titulacions, cursos i departaments.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Curs | **D** | **E** | **I** | **K** | **M** | **P** | **R** | **B** | **Total** |
| 1 | 320,1750 | 100,0125 | 259,2000 | 104,5125 | 274,0500 |   | 128,2500 | 81,0000 | 1267,2000 |
| 2 | 320,1750 | 145,7550 | 256,5000 | 139,5675 | 237,6900 |   | 123,7500 | 61,9500 | 1285,3875 |
| 3 | 312,7500 | 69,7500 | 207,0000 | 69,7500 | 155,2500 |   | 101,5200 |   | 916,0200 |
| 4 | 306,0000 | 103,5000 | 150,7500 | 146,2500 | 216,0000 |   |   |   | 922,5000 |
| 5 | 292,5000 | 108,0000 | 135,0000 | 130,5000 | 231,7500 |   |   |   | 897,7500 |
| 6 | 270,0000 | 117,0000 | 162,0000 | 139,5000 | 240,7500 |   |   |   | 929,2500 |
| 7 | 182,7000 | 110,7000 | 101,7000 | 110,7000 | 232,2000 |   |   |   | 738,0000 |
| 8 | 119,0500 | 57,4200 | 106,2000 | 67,9300 | 139,5700 | 57,0000 |   |   | 547,1700 |
| **Total** | 2123,3500 | 812,1375 | 1378,3500 | 908,7100 | 1727,2600 | 57,0000 | 353,5200 | 142,9500 | 7503,2775 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Dept. | D | E | I | K | M | P | R | B | Total |
| 701 |   |   | 368,8800 |   |   | 6,0000 | 13,5000 | 13,5000 | 401,8800 |
| 702 | 252,2100 | 38,9700 |   | 38,9700 | 222,0900 |   |   | 4,5000 | 556,7400 |
| 707 | 22,8600 | 56,3625 | 1,8000 | 241,4525 | 57,1250 | 4,5000 | 113,5100 |   | 497,6100 |
| 709 | 95,7264 | 319,1289 | 14,6252 | 92,3714 | 85,4339 |   | 30,9800 |   | 638,2659 |
| 710 | 69,3540 | 68,3712 | 2,7000 | 206,4755 | 45,9697 | 1,5000 | 118,5250 |   | 512,8954 |
| 712 | 168,1800 | 16,3125 |   | 16,3125 | 255,2450 |   | 32,9300 | 7,1500 | 496,1300 |
| 713 | 99,4770 | 37,9926 |   | 39,2940 | 84,6756 | 1,0000 |   |   | 262,4392 |
| 717 | 717,7350 | 51,0750 | 2,4750 | 51,0750 | 184,6650 | 16,0000 |   | 67,9000 | 1090,9250 |
| 723 | 65,9700 | 19,5300 | 498,0600 | 19,5300 | 56,9700 |   |   |   | 660,0600 |
| 729 | 19,4940 | 28,9962 | 2,7000 | 29,4705 | 194,4497 | 3,0000 |   | 4,5000 | 282,6104 |
| 732 | 153,8300 | 27,9000 | 62,5500 | 29,3300 | 57,7500 | 7,0000 |   |   | 338,3600 |
| 737 | 114,2300 |   |   |   | 194,7200 |   |   |   | 308,9500 |
| 744 | 48,4536 | 7,3011 | 165,7298 | 8,9886 | 18,3361 |   | 23,8250 | 0,0000 | 272,6341 |
| 748 | 99,5300 | 46,2375 | 55,8800 | 47,6675 | 81,6750 |   |   |   | 330,9900 |
| 749 | 175,6000 | 73,2600 | 182,2500 | 67,0725 | 167,4550 | 6,0000 | 20,2500 | 45,4000 | 737,2875 |
| 756 | 20,7000 | 20,7000 | 20,7000 | 20,7000 | 20,7000 | 12,0000 |   |   | 115,5000 |
| Total | 2123,3500 | 812,1375 | 1378,3500 | 908,7100 | 1727,2600 | 57,0000 | 353,5200 | 142,9500 | 7503,2775 |

* 1. **Resum de l’encàrrec per departaments.**

****

* 1. **Justificació de les variacions superiors a 36 PADs**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

1) 717 EGE. Participació en dues noves assignatures optatives transversals. Increment de 58 TFG (comptabilitzats a 0,4 PADs l'any 2019/20) a 70 TFG (comptabilitzats a 1,43 PADs) .

2) 756 THATC. Canvis d'acord amb un nou marc sobre optativitat en que es limita el nombre de grups per assignatura, de forma que les optatives transversals TEEE i HADP passen de 2+4 a 1+2 grups grans i petits.

****

****

* 1. **Punts que queden fora de l’encàrrec docent EPSEVG 2020/21**

Punts que es considera que els departaments poden assumir sense incrementar la seva contractació:

1. TFE: Punts restants per arribar a 3,000 PADs per cada estudiant de TFE previst: 310,86 PADs
2. Pràctiques externes: Punts restants per arribar a 0,5 PADs per cada prex. prevista: 40,00 PADs
3. Per seguretat als laboratoris de Química, disposar d’un professor

més a les pràctiques docents 70,00 PADs

Total: ................................................................................................................... 420,86 PADs

1. **Encàrrec docent EPSEVG 2020/21 a aprovar**
	1. Encàrrec docent 2020/21 EPSEVG ordenat per titulacions i cursos.......................... (pàgs. 15-18)
	2. Encàrrec docent 2020/21 EPSEVG ordenat per departaments ................................. (pàgs. 19-22)