

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Echangeurs des chaleur / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	3.0	0.0	3.0
2	171739065185	14.0	0.0	14.0
3	171739068652	14.0	0.0	14.0
4	171739081574	10.0	0.0	10.0
5	161639071986	8.5	0.0	8.5
6	20119032994	0.0	0.0	0.0
7	171739071733	14.0	0.0	14.0
8	171739073368	5.0	0.0	5.0
9	20119042766	11.0	0.0	11.0
10	21039051079	12.0	0.0	12.0
11	21914601373	12.0	0.0	12.0
12	171739071740	14.0	0.0	14.0
13	2097821265	0.0	0.0	0.0
14	2100932440	13.0	0.0	13.0
15	171739070788	5.0	0.0	5.0
16	171739075267	10.0	0.0	10.0
17	21079081011	18.5	0.0	18.5
18	171739066097	13.0	0.0	13.0
19	171739070031	8.0	0.0	8.0
20	171739067366	9.0	0.0	9.0
21	171739067178	5.0	0.0	5.0
22	171739070219	9.0	0.0	9.0
23	171739070040	9.0	0.0	9.0
24	1700937055	0.0	0.0	0.0
25	161639073128	13.0	0.0	13.0
26	2102941256	9.0	0.0	9.0
27	171739066277	11.0	0.0	11.0
28	20109038694	0.0	0.0	0.0
29	191339048125	11.0	0.0	11.0
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	0.0	0.0

2021/2022

Filière: Génie Mécanique  
énergies renouvelables en mécanique

Niveau:

Matière: Echangeurs des chaleur / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	4.0	0.0	4.0
2	1999933649	10.0	0.0	10.0
3	21039050708	0.0	0.0	0.0
4	171739067314	5.0	0.0	5.0
5	161639073231	8.0	0.0	8.0
6	171739081811	5.0	0.0	5.0
7	161639074232	8.0	0.0	8.0
8	161639077685	2.0	0.0	2.0
9	171739072387	3.0	0.0	3.0
10	171739070696	5.0	0.0	5.0
11	2101389239	15.0	0.0	15.0
12	2186631028	0.0	0.0	0.0
13	171739070090	5.0	0.0	5.0
14	171739070207	10.0	0.0	10.0
15	171739073756	11.0	0.0	11.0
16	171739065529	11.0	0.0	11.0
17	20119045571	8.0	0.0	8.0
18	171739070215	10.0	0.0	10.0
19	18129045522	5.0	0.0	5.0
20	171739067127	4.0	0.0	4.0
21	161639068670	5.0	0.0	5.0
22	171739065246	6.0	0.0	6.0
23	171739066612	15.0	0.0	15.0
24	21039040429	15.0	0.0	15.0
25	171739081098	5.0	0.0	5.0
26	171739068627	12.0	0.0	12.0
27	161539070116	11.0	0.0	11.0
28	191339035810	7.0	0.0	7.0
29	161539065005	4.0	0.0	4.0
30	19129038714	8.0	0.0	8.0
31	161539071840	2.0	0.0	2.0
32	161539065158	11.0	0.0	11.0
33	161539066594	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Efficacité énergétique et thermique du bâtiment / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	11.5	0.0	6.9
2	171739065185	12.5	11.0	11.9
3	171739068652	12.5	13.0	12.7
4	171739081574	6.0	10.0	7.6
5	161639071986	6.0	9.0	7.2
6	20119032994	8.0	8.0	8.0
7	171739071733	3.5	8.0	5.3
8	171739073368	9.5	10.0	9.7
9	20119042766	11.75	10.0	11.05
10	21039051079	11.0	13.0	11.8
11	21914601373	14.5	15.0	14.7
12	171739071740	8.0	11.5	9.4
13	2097821265	0.0	14.5	5.8
14	2100932440	13.75	12.0	13.05
15	171739070788	7.75	9.0	8.25
16	171739075267	4.75	10.0	6.85
17	21079081011	16.5	15.0	15.9
18	171739066097	12.25	13.0	12.55
19	171739070031	7.5	9.0	8.1
20	171739067366	14.5	11.0	13.1
21	171739067178	14.0	11.0	12.8
22	171739070219	11.75	11.0	11.45
23	171739070040	11.0	11.0	11.0
24	1700937055	0.0	0.0	0.0
25	161639073128	5.75	8.0	6.65
26	2102941256	13.5	10.0	12.1
27	171739066277	7.5	10.0	8.5
28	20109038694	0.0	14.0	5.6
29	191339048125	10.0	10.0	10.0
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	8.0	3.2

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Efficacité énergétique et thermique du bâtiment / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	10.75	11.0	10.85
2	1999933649	16.0	10.0	13.6
3	21039050708	0.0	0.0	0.0
4	171739067314	11.0	9.0	10.2
5	161639073231	3.0	8.0	5.0
6	171739081811	8.0	10.0	8.8
7	161639074232	11.0	10.0	10.6
8	161639077685	4.5	9.0	6.3
9	171739072387	4.0	11.0	6.8
10	171739070696	12.25	11.0	11.75
11	2101389239	14.0	15.0	14.4
12	2186631028	0.0	0.0	0.0
13	171739070090	5.5	9.0	6.9
14	171739070207	10.25	12.0	10.95
15	171739073756	6.25	11.0	8.15
16	171739065529	13.5	10.5	12.3
17	20119045571	13.5	11.0	12.5
18	171739070215	12.0	11.5	11.8
19	18129045522	14.0	11.0	12.8
20	171739067127	8.0	10.0	8.8
21	161639068670	14.5	10.0	12.7
22	171739065246	11.25	10.0	10.75
23	171739066612	14.75	14.5	14.65
24	21039040429	16.0	12.5	14.6
25	171739081098	10.0	10.0	10.0
26	171739068627	16.5	12.5	14.9
27	161539070116	12.0	11.0	11.6
28	191339035810	12.0	11.0	11.6
29	161539065005	6.25	9.0	7.35
30	19129038714	16.75	12.5	15.05
31	161539071840	7.5	10.5	8.7
32	161539065158	8.5	11.5	9.7
33	161539066594	7.0	10.5	8.4

Signature de l'enseignant:

Le:

2021/2022

Filière: Génie Mécanique  
énergies renouvelables en mécanique

Niveau:

Matière: Électronique appliquée / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	0.0	0.0	0.0
2	171739065185	11.0	0.0	11.0
3	171739068652	10.0	0.0	10.0
4	171739081574	5.0	0.0	5.0
5	161639071986	0.0	0.0	0.0
6	20119032994	0.0	0.0	0.0
7	171739071733	5.0	0.0	5.0
8	171739073368	2.0	0.0	2.0
9	20119042766	5.0	0.0	5.0
10	21039051079	3.0	0.0	3.0
11	21914601373	14.0	0.0	14.0
12	171739071740	6.0	0.0	6.0
13	2097821265	0.0	0.0	0.0
14	2100932440	13.0	0.0	13.0
15	171739070788	1.0	0.0	1.0
16	171739075267	6.0	0.0	6.0
17	21079081011	17.0	0.0	17.0
18	171739066097	8.0	0.0	8.0
19	171739070031	2.0	0.0	2.0
20	171739067366	1.0	0.0	1.0
21	171739067178	10.0	0.0	10.0
22	171739070219	8.0	0.0	8.0
23	171739070040	8.0	0.0	8.0
24	1700937055	0.0	0.0	0.0
25	161639073128	6.0	0.0	6.0
26	2102941256	7.0	0.0	7.0
27	171739066277	7.0	0.0	7.0
28	20109038694	0.0	0.0	0.0
29	191339048125	5.0	0.0	5.0
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: Génie Mécanique  
énergies renouvelables en mécanique

Niveau:

Matière: Électronique appliquée / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	6.0	0.0	6.0
2	1999933649	8.0	0.0	8.0
3	21039050708	0.0	0.0	0.0
4	171739067314	1.0	0.0	1.0
5	161639073231	5.0	0.0	5.0
6	171739081811	11.0	0.0	11.0
7	161639074232	8.0	0.0	8.0
8	161639077685	2.0	0.0	2.0
9	171739072387	2.0	0.0	2.0
10	171739070696	2.0	0.0	2.0
11	2101389239	12.0	0.0	12.0
12	2186631028	0.0	0.0	0.0
13	171739070090	3.0	0.0	3.0
14	171739070207	0.0	0.0	0.0
15	171739073756	10.0	0.0	10.0
16	171739065529	8.0	0.0	8.0
17	20119045571	6.0	0.0	6.0
18	171739070215	5.0	0.0	5.0
19	18129045522	1.0	0.0	1.0
20	171739067127	2.0	0.0	2.0
21	161639068670	2.0	0.0	2.0
22	171739065246	5.0	0.0	5.0
23	171739066612	6.0	0.0	6.0
24	21039040429	5.0	0.0	5.0
25	171739081098	2.0	0.0	2.0
26	171739068627	11.0	0.0	11.0
27	161539070116	8.0	0.0	8.0
28	191339035810	1.0	0.0	1.0
29	161539065005	3.0	0.0	3.0
30	19129038714	11.0	0.0	11.0
31	161539071840	5.0	0.0	5.0
32	161539065158	0.0	0.0	0.0
33	161539066594	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Etude technico économique et gestion de projets ER / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	0.0	16.0	6.4
2	171739065185	14.0	16.0	14.8
3	171739068652	15.0	16.0	15.4
4	171739081574	13.0	14.0	13.4
5	161639071986	13.0	16.0	14.2
6	20119032994	0.0	16.0	6.4
7	171739071733	13.0	16.0	14.2
8	171739073368	14.0	16.0	14.8
9	20119042766	14.0	16.0	14.8
10	21039051079	15.0	16.0	15.4
11	21914601373	13.0	16.0	14.2
12	171739071740	15.0	16.0	15.4
13	2097821265	0.0	14.0	5.6
14	2100932440	16.0	16.0	16.0
15	171739070788	14.0	16.0	14.8
16	171739075267	13.0	16.0	14.2
17	21079081011	16.0	16.0	16.0
18	171739066097	12.0	16.0	13.6
19	171739070031	13.0	14.0	13.4
20	171739067366	13.0	16.0	14.2
21	171739067178	14.0	16.0	14.8
22	171739070219	13.0	16.0	14.2
23	171739070040	12.0	16.0	13.6
24	1700937055	0.0	0.0	0.0
25	161639073128	15.0	16.0	15.4
26	2102941256	15.0	14.0	14.6
27	171739066277	13.0	14.0	13.4
28	20109038694	0.0	16.0	6.4
29	191339048125	12.0	16.0	13.6
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	16.0	6.4

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Etude technico économique et gestion de projets ER / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	14.0	16.0	14.8
2	1999933649	14.0	16.0	14.8
3	21039050708	0.0	14.0	5.6
4	171739067314	13.0	16.0	14.2
5	161639073231	12.0	14.0	12.8
6	171739081811	13.0	16.0	14.2
7	161639074232	14.0	16.0	14.8
8	161639077685	12.0	16.0	13.6
9	171739072387	12.5	16.0	13.9
10	171739070696	15.0	16.0	15.4
11	2101389239	16.0	16.0	16.0
12	2186631028	0.0	14.0	5.6
13	171739070090	13.0	16.0	14.2
14	171739070207	13.0	16.0	14.2
15	171739073756	12.0	16.0	13.6
16	171739065529	13.0	16.0	14.2
17	20119045571	12.0	16.0	13.6
18	171739070215	12.0	16.0	13.6
19	18129045522	12.0	16.0	13.6
20	171739067127	12.0	16.0	13.6
21	161639068670	15.0	16.0	15.4
22	171739065246	15.0	16.0	15.4
23	171739066612	13.0	16.0	14.2
24	21039040429	16.0	16.0	16.0
25	171739081098	0.0	16.0	6.4
26	171739068627	13.0	16.0	14.2
27	161539070116	13.0	16.0	14.2
28	191339035810	16.5	16.0	16.3
29	161539065005	12.0	16.0	13.6
30	19129038714	12.0	16.0	13.6
31	161539071840	14.0	16.0	14.8
32	161539065158	13.0	16.0	14.2
33	161539066594	13.0	16.0	14.2

Signature de l'enseignant:

Le:



2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Fluide de travail, matériaux et dispositifs de stockage / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	2.0	13.0	6.4
2	171739065185	10.0	14.0	11.6
3	171739068652	10.0	14.0	11.6
4	171739081574	10.0	14.5	11.8
5	161639071986	10.0	14.0	11.6
6	20119032994	0.0	13.5	5.4
7	171739071733	8.0	13.5	10.2
8	171739073368	8.0	13.5	10.2
9	20119042766	8.0	13.0	10.0
10	21039051079	4.0	14.0	8.0
11	21914601373	16.0	16.0	16.0
12	171739071740	12.0	14.0	12.8
13	2097821265	0.0	14.0	5.6
14	2100932440	10.0	14.0	11.6
15	171739070788	10.0	13.5	11.4
16	171739075267	10.0	14.0	11.6
17	21079081011	16.0	16.0	16.0
18	171739066097	17.0	14.0	15.8
19	171739070031	14.0	14.0	14.0
20	171739067366	11.0	0.0	6.6
21	171739067178	10.0	14.0	11.6
22	171739070219	8.0	14.0	10.4
23	171739070040	8.0	15.0	10.8
24	1700937055	0.0	0.0	0.0
25	161639073128	16.0	14.0	15.2
26	2102941256	10.0	14.0	11.6
27	171739066277	10.0	14.0	11.6
28	20109038694	0.0	14.0	5.6
29	191339048125	7.0	14.0	9.8
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	16.0	6.4

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Fluide de travail, matériaux et dispositifs de stockage / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	10.0	14.0	11.6
2	1999933649	14.0	16.0	14.8
3	21039050708	0.0	0.0	0.0
4	171739067314	6.0	14.0	9.2
5	161639073231	6.0	14.0	9.2
6	171739081811	10.0	13.0	11.2
7	161639074232	10.0	14.0	11.6
8	161639077685	6.0	12.0	8.4
9	171739072387	10.0	15.0	12.0
10	171739070696	4.0	14.0	8.0
11	2101389239	16.0	16.0	16.0
12	2186631028	0.0	13.0	5.2
13	171739070090	6.0	14.0	9.2
14	171739070207	10.0	14.0	11.6
15	171739073756	10.0	14.0	11.6
16	171739065529	12.0	15.0	13.2
17	20119045571	11.0	14.0	12.2
18	171739070215	10.0	14.0	11.6
19	18129045522	6.0	14.0	9.2
20	171739067127	10.0	15.0	12.0
21	161639068670	10.0	14.0	11.6
22	171739065246	2.0	14.0	6.8
23	171739066612	15.0	14.0	14.6
24	21039040429	14.0	14.0	14.0
25	171739081098	7.0	13.0	9.4
26	171739068627	12.0	14.0	12.8
27	161539070116	10.0	13.0	11.2
28	191339035810	10.0	0.0	6.0
29	161539065005	10.0	14.0	11.6
30	19129038714	11.0	14.0	12.2
31	161539071840	10.0	14.0	11.6
32	161539065158	10.0	14.0	11.6
33	161539066594	0.0	13.0	5.2

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Froid et climatisation solaire / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	0.0	13.0	13.0
2	171739065185	0.0	14.0	14.0
3	171739068652	0.0	14.0	14.0
4	171739081574	0.0	14.5	14.5
5	161639071986	0.0	14.0	14.0
6	20119032994	0.0	13.5	13.5
7	171739071733	0.0	13.5	13.5
8	171739073368	0.0	13.5	13.5
9	20119042766	0.0	13.0	13.0
10	21039051079	0.0	14.0	14.0
11	21914601373	0.0	16.0	16.0
12	171739071740	0.0	14.0	14.0
13	2097821265	0.0	14.0	14.0
14	2100932440	0.0	14.0	14.0
15	171739070788	0.0	13.5	13.5
16	171739075267	0.0	14.0	14.0
17	21079081011	0.0	16.0	16.0
18	171739066097	0.0	14.0	14.0
19	171739070031	0.0	14.0	14.0
20	171739067366	0.0	0.0	0.0
21	171739067178	0.0	14.0	14.0
22	171739070219	0.0	14.0	14.0
23	171739070040	0.0	15.0	15.0
24	1700937055	0.0	0.0	0.0
25	161639073128	0.0	14.0	14.0
26	2102941256	0.0	14.0	14.0
27	171739066277	0.0	14.0	14.0
28	20109038694	0.0	14.0	14.0
29	191339048125	0.0	14.0	14.0
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	16.0	16.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Froid et climatisation solaire / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	0.0	14.0	14.0
2	1999933649	0.0	16.0	16.0
3	21039050708	0.0	0.0	0.0
4	171739067314	0.0	14.0	14.0
5	161639073231	0.0	14.0	14.0
6	171739081811	0.0	13.0	13.0
7	161639074232	0.0	14.0	14.0
8	161639077685	0.0	13.0	13.0
9	171739072387	0.0	15.0	15.0
10	171739070696	0.0	14.0	14.0
11	2101389239	0.0	16.0	16.0
12	2186631028	0.0	13.0	13.0
13	171739070090	0.0	14.0	14.0
14	171739070207	0.0	14.0	14.0
15	171739073756	0.0	14.0	14.0
16	171739065529	0.0	15.0	15.0
17	20119045571	0.0	14.0	14.0
18	171739070215	0.0	14.0	14.0
19	18129045522	0.0	14.0	14.0
20	171739067127	0.0	15.0	15.0
21	161639068670	0.0	14.0	14.0
22	171739065246	0.0	14.0	14.0
23	171739066612	0.0	14.0	14.0
24	21039040429	0.0	14.0	14.0
25	171739081098	0.0	13.0	13.0
26	171739068627	0.0	14.0	14.0
27	161539070116	0.0	13.0	13.0
28	191339035810	0.0	0.0	0.0
29	161539065005	0.0	14.0	14.0
30	19129038714	0.0	14.0	14.0
31	161539071840	0.0	14.0	14.0
32	161539065158	0.0	14.0	14.0
33	161539066594	0.0	13.0	13.0

Signature de l'enseignant:

Le:

2021/2022

Filière: Génie Mécanique  
énergies renouvelables en mécanique

Niveau:

Matière: Logiciel de simulation / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	0.0	0.0	0.0
2	171739065185	4.0	0.0	4.0
3	171739068652	3.5	0.0	3.5
4	171739081574	2.0	0.0	2.0
5	161639071986	2.0	0.0	2.0
6	20119032994	0.0	0.0	0.0
7	171739071733	2.0	0.0	2.0
8	171739073368	3.0	0.0	3.0
9	20119042766	2.0	0.0	2.0
10	21039051079	2.0	0.0	2.0
11	21914601373	6.0	0.0	6.0
12	171739071740	2.0	0.0	2.0
13	2097821265	0.0	0.0	0.0
14	2100932440	2.0	0.0	2.0
15	171739070788	2.0	0.0	2.0
16	171739075267	2.0	0.0	2.0
17	21079081011	8.0	0.0	8.0
18	171739066097	2.0	0.0	2.0
19	171739070031	2.0	0.0	2.0
20	171739067366	3.0	0.0	3.0
21	171739067178	2.0	0.0	2.0
22	171739070219	2.0	0.0	2.0
23	171739070040	3.0	0.0	3.0
24	1700937055	0.0	0.0	0.0
25	161639073128	3.0	0.0	3.0
26	2102941256	3.0	0.0	3.0
27	171739066277	2.0	0.0	2.0
28	20109038694	0.0	0.0	0.0
29	191339048125	2.0	0.0	2.0
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Logiciel de simulation / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	0.0	0.0	0.0
2	1999933649	3.5	0.0	3.5
3	21039050708	0.0	0.0	0.0
4	171739067314	3.0	0.0	3.0
5	161639073231	2.0	0.0	2.0
6	171739081811	2.0	0.0	2.0
7	161639074232	3.0	0.0	3.0
8	161639077685	2.0	0.0	2.0
9	171739072387	3.0	0.0	3.0
10	171739070696	2.0	0.0	2.0
11	2101389239	3.0	0.0	3.0
12	2186631028	0.0	0.0	0.0
13	171739070090	2.0	0.0	2.0
14	171739070207	3.0	0.0	3.0
15	171739073756	2.0	0.0	2.0
16	171739065529	2.0	0.0	2.0
17	20119045571	2.0	0.0	2.0
18	171739070215	2.0	0.0	2.0
19	18129045522	2.5	0.0	2.5
20	171739067127	4.0	0.0	4.0
21	161639068670	3.0	0.0	3.0
22	171739065246	3.0	0.0	3.0
23	171739066612	5.0	0.0	5.0
24	21039040429	4.0	0.0	4.0
25	171739081098	3.0	0.0	3.0
26	171739068627	3.0	0.0	3.0
27	161539070116	2.0	0.0	2.0
28	191339035810	0.0	0.0	0.0
29	161539065005	3.0	0.0	3.0
30	19129038714	2.0	0.0	2.0
31	161539071840	3.0	0.0	3.0
32	161539065158	3.0	0.0	3.0
33	161539066594	2.0	0.0	2.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** logiciels de simulations et de dimensionnement des installations ER / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	0.0	10.4	10.4
2	171739065185	0.0	7.6	7.6
3	171739068652	0.0	6.0	6.0
4	171739081574	0.0	17.6	17.6
5	161639071986	0.0	11.1	11.1
6	20119032994	0.0	9.1	9.1
7	171739071733	0.0	10.4	10.4
8	171739073368	0.0	9.7	9.7
9	20119042766	0.0	9.7	9.7
10	21039051079	0.0	10.4	10.4
11	21914601373	0.0	15.6	15.6
12	171739071740	0.0	11.5	11.5
13	2097821265	0.0	15.5	15.5
14	2100932440	0.0	11.1	11.1
15	171739070788	0.0	7.6	7.6
16	171739075267	0.0	9.7	9.7
17	21079081011	0.0	17.6	17.6
18	171739066097	0.0	11.2	11.2
19	171739070031	0.0	11.1	11.1
20	171739067366	0.0	10.4	10.4
21	171739067178	0.0	10.4	10.4
22	171739070219	0.0	11.7	11.7
23	171739070040	0.0	14.1	14.1
24	1700937055	0.0	0.0	0.0
25	161639073128	0.0	10.6	10.6
26	2102941256	0.0	15.6	15.6
27	171739066277	0.0	12.5	12.5
28	20109038694	0.0	16.7	16.7
29	191339048125	0.0	7.6	7.6
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	17.9	17.9

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** logiciels de simulations et de dimensionnement des installations ER / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	0.0	7.9	7.9
2	1999933649	0.0	16.2	16.2
3	21039050708	0.0	0.0	0.0
4	171739067314	0.0	10.4	10.4
5	161639073231	0.0	10.7	10.7
6	171739081811	0.0	0.0	0.0
7	161639074232	0.0	10.7	10.7
8	161639077685	0.0	0.6	0.6
9	171739072387	0.0	10.4	10.4
10	171739070696	0.0	7.6	7.6
11	2101389239	0.0	16.5	16.5
12	2186631028	0.0	1.2	1.2
13	171739070090	0.0	11.9	11.9
14	171739070207	0.0	16.8	16.8
15	171739073756	0.0	7.6	7.6
16	171739065529	0.0	7.6	7.6
17	20119045571	0.0	9.7	9.7
18	171739070215	0.0	13.2	13.2
19	18129045522	0.0	7.0	7.0
20	171739067127	0.0	10.4	10.4
21	161639068670	0.0	10.4	10.4
22	171739065246	0.0	8.5	8.5
23	171739066612	0.0	16.8	16.8
24	21039040429	0.0	11.6	11.6
25	171739081098	0.0	7.6	7.6
26	171739068627	0.0	18.6	18.6
27	161539070116	0.0	5.4	5.4
28	191339035810	0.0	10.3	10.3
29	161539065005	0.0	10.4	10.4
30	19129038714	0.0	13.8	13.8
31	161539071840	0.0	0.6	0.6
32	161539065158	0.0	5.4	5.4
33	161539066594	0.0	0.6	0.6

Signature de l'enseignant:

Le:



2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Maintenance des systèmes à énergies renouvelables / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	0.0	0.0	0.0
2	171739065185	14.0	0.0	14.0
3	171739068652	11.0	0.0	11.0
4	171739081574	14.0	0.0	14.0
5	161639071986	2.0	0.0	2.0
6	20119032994	10.5	0.0	10.5
7	171739071733	12.0	0.0	12.0
8	171739073368	6.0	0.0	6.0
9	20119042766	12.0	0.0	12.0
10	21039051079	3.0	0.0	3.0
11	21914601373	11.25	0.0	11.25
12	171739071740	11.0	0.0	11.0
13	2097821265	0.0	0.0	0.0
14	2100932440	7.0	0.0	7.0
15	171739070788	4.0	0.0	4.0
16	171739075267	11.0	0.0	11.0
17	21079081011	13.0	0.0	13.0
18	171739066097	12.0	0.0	12.0
19	171739070031	10.0	0.0	10.0
20	171739067366	14.5	0.0	14.5
21	171739067178	4.0	0.0	4.0
22	171739070219	5.0	0.0	5.0
23	171739070040	10.0	0.0	10.0
24	1700937055	0.0	0.0	0.0
25	161639073128	13.5	0.0	13.5
26	2102941256	14.0	0.0	14.0
27	171739066277	1.0	0.0	1.0
28	20109038694	0.0	0.0	0.0
29	191339048125	12.0	0.0	12.0
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

Filière: Génie Mécanique  
énergies renouvelables en mécanique

Niveau:

Matière: Maintenance des systèmes à énergies renouvelables / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	1.0	0.0	1.0
2	1999933649	6.5	0.0	6.5
3	21039050708	0.0	0.0	0.0
4	171739067314	5.0	0.0	5.0
5	161639073231	7.0	0.0	7.0
6	171739081811	15.0	0.0	15.0
7	161639074232	10.0	0.0	10.0
8	161639077685	14.0	0.0	14.0
9	171739072387	3.0	0.0	3.0
10	171739070696	2.0	0.0	2.0
11	2101389239	10.0	0.0	10.0
12	2186631028	0.0	0.0	0.0
13	171739070090	0.5	0.0	0.5
14	171739070207	9.0	0.0	9.0
15	171739073756	10.0	0.0	10.0
16	171739065529	11.0	0.0	11.0
17	20119045571	13.5	0.0	13.5
18	171739070215	0.0	0.0	0.0
19	18129045522	10.0	0.0	10.0
20	171739067127	2.5	0.0	2.5
21	161639068670	4.0	0.0	4.0
22	171739065246	7.0	0.0	7.0
23	171739066612	12.0	0.0	12.0
24	21039040429	15.0	0.0	15.0
25	171739081098	8.0	0.0	8.0
26	171739068627	15.0	0.0	15.0
27	161539070116	12.5	0.0	12.5
28	191339035810	3.0	0.0	3.0
29	161539065005	3.0	0.0	3.0
30	19129038714	8.5	0.0	8.5
31	161539071840	4.0	0.0	4.0
32	161539065158	0.0	0.0	0.0
33	161539066594	11.0	0.0	11.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Piles à combustibles et production de l'hydrogène / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	0.0	7.5	3.0
2	171739065185	4.0	10.75	6.7
3	171739068652	11.0	9.0	10.2
4	171739081574	1.5	8.5	4.3
5	161639071986	6.0	7.0	6.4
6	20119032994	14.0	6.0	10.8
7	171739071733	5.5	7.0	6.1
8	171739073368	6.0	9.0	7.2
9	20119042766	6.0	7.0	6.4
10	21039051079	4.5	10.5	6.9
11	21914601373	5.5	10.0	7.3
12	171739071740	6.5	10.0	7.9
13	2097821265	7.5	10.5	8.7
14	2100932440	3.5	10.0	6.1
15	171739070788	6.5	7.5	6.9
16	171739075267	3.0	9.0	5.4
17	21079081011	16.5	14.0	15.5
18	171739066097	6.0	10.0	7.6
19	171739070031	3.0	10.75	6.1
20	171739067366	2.0	8.0	4.4
21	171739067178	1.5	9.0	4.5
22	171739070219	4.0	9.0	6.0
23	171739070040	5.5	9.0	6.9
24	1700937055	0.0	0.0	0.0
25	161639073128	5.5	9.0	6.9
26	2102941256	11.5	10.5	11.1
27	171739066277	8.0	7.5	7.8
28	20109038694	6.0	11.5	8.2
29	191339048125	10.5	9.0	9.9
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	11.0	4.4

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Piles à combustibles et production de l'hydrogène / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	6.0	7.5	6.6
2	1999933649	0.0	13.0	5.2
3	21039050708	0.0	0.0	0.0
4	171739067314	4.5	8.5	6.1
5	161639073231	4.0	8.0	5.6
6	171739081811	4.5	8.0	5.9
7	161639074232	8.0	9.0	8.4
8	161639077685	3.0	7.5	4.8
9	171739072387	3.5	7.0	4.9
10	171739070696	7.5	7.0	7.3
11	2101389239	11.5	14.5	12.7
12	2186631028	0.0	12.0	4.8
13	171739070090	2.5	7.25	4.4
14	171739070207	5.0	11.0	7.4
15	171739073756	5.5	9.5	7.1
16	171739065529	1.0	10.5	4.8
17	20119045571	6.5	9.0	7.5
18	171739070215	3.0	8.5	5.2
19	18129045522	5.5	9.0	6.9
20	171739067127	8.5	8.5	8.5
21	161639068670	0.0	7.5	3.0
22	171739065246	5.0	9.5	6.8
23	171739066612	9.0	11.75	10.1
24	21039040429	18.0	13.5	16.2
25	171739081098	1.5	8.5	4.3
26	171739068627	10.0	12.5	11.0
27	161539070116	9.5	9.5	9.5
28	191339035810	6.5	8.5	7.3
29	161539065005	3.0	7.5	4.8
30	19129038714	8.5	9.5	8.9
31	161539071840	4.5	8.0	5.9
32	161539065158	6.0	10.25	7.7
33	161539066594	0.0	8.25	3.3

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Recherche documentaire et conception de mémoire / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	8.0	0.0	8.0
2	171739065185	12.0	0.0	12.0
3	171739068652	12.0	0.0	12.0
4	171739081574	10.0	0.0	10.0
5	161639071986	9.0	0.0	9.0
6	20119032994	13.0	0.0	13.0
7	171739071733	11.0	0.0	11.0
8	171739073368	9.0	0.0	9.0
9	20119042766	15.0	0.0	15.0
10	21039051079	14.0	0.0	14.0
11	21914601373	12.0	0.0	12.0
12	171739071740	11.0	0.0	11.0
13	2097821265	8.5	0.0	8.5
14	2100932440	11.0	0.0	11.0
15	171739070788	14.0	0.0	14.0
16	171739075267	10.0	0.0	10.0
17	21079081011	16.0	0.0	16.0
18	171739066097	10.0	0.0	10.0
19	171739070031	11.0	0.0	11.0
20	171739067366	10.0	0.0	10.0
21	171739067178	13.0	0.0	13.0
22	171739070219	10.0	0.0	10.0
23	171739070040	9.0	0.0	9.0
24	1700937055	0.0	0.0	0.0
25	161639073128	12.0	0.0	12.0
26	2102941256	16.0	0.0	16.0
27	171739066277	12.5	0.0	12.5
28	20109038694	9.0	0.0	9.0
29	191339048125	12.5	0.0	12.5
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	0.0	0.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Recherche documentaire et conception de mémoire / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	9.0	0.0	9.0
2	1999933649	0.0	0.0	0.0
3	21039050708	0.0	0.0	0.0
4	171739067314	8.0	0.0	8.0
5	161639073231	9.0	0.0	9.0
6	171739081811	6.0	0.0	6.0
7	161639074232	14.5	0.0	14.5
8	161639077685	6.0	0.0	6.0
9	171739072387	8.0	0.0	8.0
10	171739070696	13.5	0.0	13.5
11	2101389239	15.0	0.0	15.0
12	2186631028	0.0	0.0	0.0
13	171739070090	7.0	0.0	7.0
14	171739070207	15.5	0.0	15.5
15	171739073756	8.0	0.0	8.0
16	171739065529	6.0	0.0	6.0
17	20119045571	11.0	0.0	11.0
18	171739070215	10.0	0.0	10.0
19	18129045522	10.0	0.0	10.0
20	171739067127	10.0	0.0	10.0
21	161639068670	13.5	0.0	13.5
22	171739065246	12.0	0.0	12.0
23	171739066612	11.0	0.0	11.0
24	21039040429	18.0	0.0	18.0
25	171739081098	10.5	0.0	10.5
26	171739068627	15.0	0.0	15.0
27	161539070116	10.0	0.0	10.0
28	191339035810	10.0	0.0	10.0
29	161539065005	12.5	0.0	12.5
30	19129038714	10.0	0.0	10.0
31	161539071840	10.0	0.0	10.0
32	161539065158	0.0	0.0	0.0
33	161539066594	11.0	0.0	11.0

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Solaire photovoltaïque et applications / Section A / 1

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739082291	13.0	11.0	12.2
2	171739065185	10.0	11.75	10.7
3	171739068652	13.0	13.5	13.2
4	171739081574	9.5	12.5	10.7
5	161639071986	10.0	11.0	10.4
6	20119032994	9.5	7.0	8.5
7	171739071733	9.0	9.25	9.1
8	171739073368	8.0	12.0	9.6
9	20119042766	9.0	11.0	9.8
10	21039051079	10.0	8.75	9.5
11	21914601373	9.5	13.75	11.2
12	171739071740	9.5	12.0	10.5
13	2097821265	14.5	9.75	12.6
14	2100932440	8.5	13.0	10.3
15	171739070788	8.75	9.75	9.15
16	171739075267	10.5	10.5	10.5
17	21079081011	13.5	15.75	14.4
18	171739066097	9.0	13.25	10.7
19	171739070031	8.0	10.5	9.0
20	171739067366	11.5	9.75	10.8
21	171739067178	9.75	12.5	10.85
22	171739070219	11.5	6.5	9.5
23	171739070040	13.5	6.5	10.7
24	1700937055	0.0	0.0	0.0
25	161639073128	9.0	14.25	11.1
26	2102941256	11.5	11.75	11.6
27	171739066277	14.0	12.25	13.3
28	20109038694	12.5	13.75	13.0
29	191339048125	10.0	9.5	9.8
30	17119043655	0.0	0.0	0.0
31	20109042391	0.0	10.5	4.2

Signature de l'enseignant:

Le:

2021/2022

**Filière:** Génie Mécanique  
énergies renouvelables en mécanique

**Niveau:**

**Matière:** Solaire photovoltaïque et applications / Section A / 2

**PV de délibération par matière**

#	Matricule	Examen	CC	MG
1	171739070797	11.75	8.88	10.6
2	1999933649	0.0	12.25	4.9
3	21039050708	0.0	0.0	0.0
4	171739067314	12.0	9.0	10.8
5	161639073231	9.5	9.5	9.5
6	171739081811	8.5	7.75	8.2
7	161639074232	10.5	11.5	10.9
8	161639077685	6.0	8.5	7.0
9	171739072387	13.0	9.25	11.5
10	171739070696	12.5	8.88	11.05
11	2101389239	16.0	13.5	15.0
12	2186631028	0.0	1.0	0.4
13	171739070090	8.5	8.88	8.65
14	171739070207	12.25	8.25	10.65
15	171739073756	9.5	10.0	9.7
16	171739065529	11.5	12.0	11.7
17	20119045571	10.0	12.25	10.9
18	171739070215	11.75	8.0	10.25
19	18129045522	15.0	10.0	13.0
20	171739067127	14.0	9.5	12.2
21	161639068670	11.5	10.5	11.1
22	171739065246	11.25	10.13	10.8
23	171739066612	14.0	11.5	13.0
24	21039040429	16.0	11.25	14.1
25	171739081098	10.0	8.25	9.3
26	171739068627	9.5	12.5	10.7
27	161539070116	15.0	11.75	13.7
28	191339035810	11.5	10.25	11.0
29	161539065005	13.5	7.75	11.2
30	19129038714	8.0	12.25	9.7
31	161539071840	8.0	8.0	8.0
32	161539065158	9.25	10.75	9.85
33	161539066594	13.0	9.25	11.5

Signature de l'enseignant:

Le: