

Année Académique: 2021/2022

Domaine: Sciences et Technologies

Filière: Electrotechnique

Spécialité: énergies renouvelables en électrotechnique

Niveau: Master 2

Arrêté d'habilitation de l'offre de formation: قرار رقم 1200 المؤرخ في 09 ن°

PV de délibération Semestre 3 - 2021/2022 (Session :Rattrapage)

| | | A00D0001M | | | | A00F0001M | | | | A00F0002M | | | | A00M0001M | | | | A00T0001M | | | | Crédits du semestre | Moyenne du semestre | | |
|----------------------------------|--------------|--------------------|--------------------------|------------|-----------|---|--|---|------------|-----------|--|---|------------|-----------|--|--|---|--------------------------|------------|-----------|---|---------------------|---------------------|------------|-----------|
| | | Audite énergétique | Technique d'optimisation | Moyenne UE | Crédit UE | Applications et dimensionnement des systèmes à énergies renouvelables | Commande des systèmes à énergies renouvelables | Stockage de l'énergie et pile à combustible | Moyenne UE | Crédit UE | Intégration des énergies renouvelables aux | Systèmes multi sources à énergies renouvelables | Moyenne UE | Crédit UE | Maintenance et fiabilité des systèmes à énergies | TP Applications et dimensionnement des systèmes à ER | TP Commande des systèmes à énergies renouvelables | TP Stockage de l'énergie | Moyenne UE | Crédit UE | Recherche documentaire et conception de | | | Moyenne UE | Crédit UE |
| 1 - ABUAKER KHALED | 17164521 | 13.5 | 15.0 | 14.25 | 02 | 14.8 | 12.4 | 15.5 | 13.98 | 10 | 16.25 | 12.0 | 14.13 | 08 | 14.3 | 11.25 | 10.75 | 13.5 | 12.82 | 09 | 16.0 | 16.0 | 01 | 30 | 13.82 |
| 2 - ADOUANI ABDELHAK | 161635006355 | 13.75 | 15.5 | 14.63 | 02 | 13.4 | 16.9 | 14.75 | 15.07 | 10 | 14.2 | 14.5 | 14.35 | 08 | 10.7 | 11.25 | 10.75 | 13.5 | 11.38 | 09 | 17.0 | 17.0 | 01 | 30 | 13.88 |
| 3 - AICHI ABDEL QAHHAR | 161735049316 | 10.0 | 14.0 | 12.0 | 02 | 14.0 | 8.7 | 13.25 | 11.73 | 10 | 10.1 | 10.2 | 10.15 | 08 | 11.2 | 12.5 | 15.0 | 14.5 | 12.88 | 09 | 11.0 | 11.0 | 01 | 30 | 11.69 |
| 4 - AKSA FEDWA IMANE | 171735017046 | 10.0 | 11.25 | 10.63 | 02 | 7.2 | 7.8 | 13.5 | 8.7 | 02 | 12.25 | 10.2 | 11.23 | 08 | 9.2 | 10.13 | 10.0 | 12.5 | 10.21 | 09 | 15.0 | 15.0 | 01 | 30 | 10.34 |
| 5 - ALBARDAWIL MUNTHER | 19169510 | 13.5 | 15.0 | 14.25 | 02 | 14.2 | 14.2 | 16.0 | 14.56 | 10 | 16.55 | 16.8 | 16.68 | 08 | 11.6 | 11.25 | 10.75 | 13.5 | 11.74 | 09 | 16.0 | 16.0 | 01 | 30 | 14.28 |
| 6 - AMEGHCHOUCHE NADA | 171735003581 | 10.0 | 11.5 | 10.75 | 02 | 14.4 | 6.4 | 4.5 | 9.22 | 04 | 7.15 | 11.6 | 9.38 | 04 | 8.1 | 18.13 | 12.0 | 17.75 | 12.82 | 09 | 12.0 | 12.0 | 01 | 30 | 10.66 |
| 7 - ATTOUCHE ABDELOUAHAB | 2195332580 | 16.0 | 11.25 | 13.63 | 02 | 6.8 | 4.0 | 15.25 | 7.37 | 02 | 11.9 | 14.5 | 13.2 | 08 | 11.3 | 10.38 | 12.75 | 16.0 | 12.35 | 09 | 15.0 | 15.0 | 01 | 30 | 11.39 |
| 8 - BADA AMINA | 161735026640 | 11.0 | 14.5 | 12.75 | 02 | 18.4 | 9.6 | 17.0 | 14.6 | 10 | 15.35 | 16.0 | 15.68 | 08 | 9.6 | 18.13 | 16.0 | 17.75 | 14.22 | 09 | 15.0 | 15.0 | 01 | 30 | 14.55 |
| 9 - BARAOUI SOUHIL | 2002366360 | 13.5 | 15.0 | 14.25 | 02 | 17.2 | 10.0 | 12.5 | 13.38 | 10 | 14.1 | 12.4 | 13.25 | 08 | 11.6 | 10.0 | 12.75 | 16.0 | 12.39 | 09 | 12.0 | 12.0 | 01 | 30 | 13.08 |
| 10 - BEBROUZA Mohammed radhwane | 161635038406 | 10.5 | 10.0 | 10.25 | 02 | 15.2 | 10.8 | 14.5 | 13.3 | 10 | 9.9 | 12.4 | 11.15 | 08 | 10.3 | 12.5 | 15.0 | 14.5 | 12.52 | 09 | 18.0 | 18.0 | 01 | 30 | 12.48 |
| 11 - BELKACEM MOHAMED ABDERRAOUF | 171735015158 | 16.5 | 13.0 | 14.75 | 02 | 12.2 | 10.6 | 12.25 | 11.57 | 10 | 14.8 | 16.4 | 15.6 | 08 | 12.1 | 9.0 | 15.0 | 13.75 | 12.39 | 09 | 14.0 | 14.0 | 01 | 30 | 13.28 |
| 12 - BELLA BOURHANEDDINE | 161635015922 | 16.0 | 15.5 | 15.75 | 02 | 10.0 | 9.0 | 10.5 | 9.7 | 06 | 10.45 | 12.0 | 11.23 | 08 | 10.3 | 9.0 | 12.37 | 13.5 | 11.09 | 09 | 13.0 | 13.0 | 01 | 30 | 11.37 |
| 13 - BENAKCHA EL MOATAZZ | 161635002050 | 16.0 | 16.5 | 16.25 | 02 | 8.0 | 6.7 | 13.5 | 8.58 | 02 | 10.9 | 9.6 | 10.25 | 08 | 12.1 | 11.13 | 11.5 | 15.25 | 12.42 | 09 | 14.0 | 14.0 | 01 | 30 | 11.32 |
| 14 - BENBRAHIM Dhia eddine | 161635002912 | 16.0 | 10.0 | 13.0 | 02 | 7.8 | 10.0 | 7.75 | 8.67 | 04 | 10.7 | 9.0 | 9.85 | 04 | 8.7 | 14.0 | 11.0 | 10.25 | 10.53 | 09 | 17.5 | 17.5 | 01 | 30 | 10.52 |
| 15 - BENCIB RAYENE | 171735015784 | 16.5 | 13.0 | 14.75 | 02 | 12.0 | 10.6 | 9.0 | 10.84 | 10 | 14.65 | 16.8 | 15.73 | 08 | 11.4 | 10.0 | 15.0 | 11.0 | 11.76 | 09 | 15.0 | 15.0 | 01 | 30 | 12.97 |
| 16 - BENKORICHI Djamel | 2189262440 | 12.0 | 10.0 | 11.0 | 02 | 16.4 | 9.3 | 16.5 | 13.58 | 10 | 15.15 | 16.8 | 15.98 | 08 | 11.8 | 10.25 | 13.75 | 16.5 | 12.82 | 09 | 18.0 | 18.0 | 01 | 30 | 13.88 |
| 17 - BENMERIEM AMIRA | 171735020450 | 10.0 | 10.0 | 10.0 | 02 | 8.2 | 7.9 | 11.25 | 8.69 | 02 | 10.7 | 9.0 | 9.85 | 04 | 10.0 | 11.5 | 12.37 | 14.75 | 11.72 | 09 | 15.0 | 15.0 | 01 | 30 | 10.38 |
| 18 - BERGHOUT BILAL | 171735001952 | 15.25 | 15.25 | 15.25 | 02 | 10.6 | 6.4 | 14.0 | 9.6 | 06 | 9.6 | 12.4 | 11.0 | 08 | 10.6 | 11.13 | 11.5 | 15.25 | 11.82 | 09 | 14.0 | 14.0 | 01 | 30 | 11.51 |
| 19 - BERROUK Mohammed | 151539074110 | 16.5 | 10.5 | 13.5 | 02 | 7.2 | 9.1 | 9.5 | 8.42 | 00 | 8.65 | 6.4 | 7.53 | 00 | 11.5 | 12.5 | 15.0 | 14.5 | 13.0 | 09 | 12.0 | 12.0 | 01 | 30 | 10.37 |
| 20 - BOUARROUDJ TOUFIK | 2095332941 | 13.5 | 11.5 | 12.5 | 02 | 15.2 | 7.8 | 18.5 | 12.9 | 10 | 15.25 | 11.2 | 13.23 | 08 | 10.3 | 10.25 | 13.75 | 16.5 | 12.22 | 09 | 15.0 | 15.0 | 01 | 30 | 12.85 |
| 21 - BOUCETTA AIMEN | 171735026707 | 16.5 | 15.0 | 15.75 | 02 | 14.2 | 10.9 | 10.75 | 12.19 | 10 | 9.8 | 16.4 | 13.1 | 08 | 9.1 | 11.25 | 14.0 | 14.25 | 11.54 | 09 | 16.5 | 16.5 | 01 | 30 | 12.89 |
| 22 - BOUDERSA HADJER | 171735015724 | 15.0 | 15.75 | 15.38 | 02 | 16.0 | 17.5 | 18.5 | 17.1 | 10 | 13.75 | 14.9 | 14.33 | 08 | 13.0 | 17.38 | 16.0 | 18.0 | 15.48 | 09 | 15.0 | 15.0 | 01 | 30 | 15.65 |
| 23 - BOUHENTALA MASSINISSA | 151535010202 | 12.0 | 10.5 | 11.25 | 02 | 13.6 | 8.7 | 11.25 | 11.17 | 10 | 12.3 | 11.2 | 11.75 | 08 | 12.4 | 11.13 | 11.5 | 15.25 | 12.54 | 09 | 18.0 | 18.0 | 01 | 30 | 12.12 |
| 24 - BOUKHERBACHE OUSSAMA | 161635016722 | 16.5 | 16.0 | 16.25 | 02 | 8.0 | 5.1 | 9.75 | 7.19 | 00 | 13.25 | 11.2 | 12.23 | 08 | 12.7 | 11.38 | 13.37 | 14.25 | 12.88 | 09 | 10.0 | 10.0 | 01 | 30 | 11.28 |

Nombre total des étudiants: 60

Nombre total étudiants admis: 59

Nombre des étudiants ajournés: 1

Le: 22-03-2022

Nom,Prénom et Signature des enseignants:

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| 25 - BOULAHIA OUSAMA | 171735007158 | 14.0 | 14.5 | 14.25 | 02 | 7.2 | 10.0 | 8.0 | 8.48 | 04 | 10.9 | 12.0 | 11.45 | 08 | 9.1 | 10.25 | 13.75 | 16.5 | 11.74 | 09 | 10.0 | 10.0 | 01 | 30 | 10.91 |
| 26 - BOUNEHAS NOUR EL HOUDA | 171735030385 | 14.0 | 15.25 | 14.63 | 02 | 10.4 | 8.2 | 6.25 | 8.69 | 04 | 10.4 | 11.6 | 11.0 | 08 | 8.7 | 10.0 | 11.5 | 11.0 | 9.98 | 05 | 18.0 | 18.0 | 01 | 30 | 10.86 |
| 27 - BOUSSAD ZAKI | 171735013313 | 16.5 | 12.5 | 14.5 | 02 | 16.8 | 7.6 | 16.5 | 13.06 | 10 | 18.4 | 16.0 | 17.2 | 08 | 12.4 | 11.38 | 12.37 | 14.25 | 12.56 | 09 | 15.0 | 15.0 | 01 | 30 | 14.17 |
| 28 - CHABANE Fairouz | 141535024185 | 14.5 | 15.0 | 14.75 | 02 | 10.75 | 12.4 | 10.25 | 11.31 | 10 | 11.2 | 12.4 | 11.8 | 08 | 9.1 | 10.13 | 11.0 | 12.5 | 10.37 | 09 | 10.0 | 10.0 | 01 | 30 | 11.48 |
| 29 - CHAIBAI IMENE | 171735001906 | 14.5 | 13.0 | 13.75 | 02 | 7.0 | 7.5 | 4.5 | 6.7 | 00 | 9.8 | 6.4 | 8.1 | 00 | 12.2 | 11.5 | 11.0 | 14.75 | 12.33 | 09 | 15.0 | 15.0 | 01 | 30 | 10.0 |
| 30 - CHEBAKI MOHAMED | 171735015791 | 11.5 | 13.0 | 12.25 | 02 | 7.0 | 7.6 | 11.25 | 8.09 | 02 | 6.9 | 9.6 | 8.25 | 00 | 10.1 | 11.38 | 10.0 | 14.25 | 11.17 | 09 | 17.0 | 17.0 | 01 | 30 | 10.05 |
| 31 - CHEBBAH Khaoula | 181538002372 | 14.5 | 16.25 | 15.38 | 02 | 6.6 | 9.3 | 3.75 | 7.11 | 00 | 7.35 | 8.4 | 7.88 | 00 | 11.7 | 10.0 | 11.5 | 11.0 | 11.18 | 09 | 16.5 | 16.5 | 01 | 30 | 10.01 |
| 32 - DERGAL Ilhem | 961535021558 | 13.5 | 16.0 | 14.75 | 02 | 8.4 | 9.7 | 3.75 | 7.99 | 00 | 10.65 | 9.6 | 10.13 | 08 | 9.3 | 10.0 | 11.5 | 11.0 | 10.22 | 09 | 16.0 | 16.0 | 01 | 30 | 10.42 |
| 33 - FERCHAT SELOUA | 171735017016 | 10.0 | 11.5 | 10.75 | 02 | 8.8 | 8.4 | 13.75 | 9.63 | 02 | 10.7 | 8.4 | 9.55 | 04 | 9.5 | 10.13 | 10.0 | 11.25 | 10.08 | 09 | 16.5 | 16.5 | 01 | 30 | 10.28 |
| 34 - GHAOUAR Kheir eddine | 12125003407 | 12.0 | 16.0 | 14.0 | 02 | 6.8 | 12.9 | 12.0 | 10.28 | 10 | 15.95 | 11.2 | 13.58 | 08 | 7.7 | 9.0 | 12.75 | 14.75 | 10.38 | 09 | 17.0 | 17.0 | 01 | 30 | 11.92 |
| 35 - GHENAM YOUNES | 171735020771 | 13.0 | 12.25 | 12.63 | 02 | 9.6 | 9.7 | 11.75 | 10.07 | 10 | 6.85 | 12.4 | 9.63 | 04 | 8.8 | 11.38 | 10.0 | 14.25 | 10.65 | 09 | 15.0 | 15.0 | 01 | 30 | 10.73 |
| 36 - GUETTALA IHAB | 171735013210 | 13.5 | 14.5 | 14.0 | 02 | 14.8 | 12.4 | 10.0 | 12.88 | 10 | 11.8 | 13.7 | 12.75 | 08 | 10.7 | 10.0 | 12.25 | 13.25 | 11.38 | 09 | 14.0 | 14.0 | 01 | 30 | 12.61 |
| 37 - HABBARA NERDJAS | 171735017051 | 10.0 | 11.0 | 10.5 | 02 | 9.6 | 7.0 | 9.75 | 8.59 | 00 | 11.6 | 9.6 | 10.6 | 08 | 7.8 | 8.25 | 10.0 | 12.5 | 9.27 | 03 | 18.0 | 18.0 | 01 | 30 | 10.04 |
| 38 - HADDKEHEIL ASSALA | 171735007818 | 16.0 | 10.0 | 13.0 | 02 | 13.0 | 12.4 | 9.75 | 12.11 | 10 | 9.95 | 9.6 | 9.78 | 00 | 8.5 | 11.25 | 14.0 | 14.25 | 11.3 | 09 | 10.0 | 10.0 | 01 | 30 | 11.3 |
| 39 - HAMCHA HEMAMA | 171735017031 | 10.0 | 10.5 | 10.25 | 02 | 9.0 | 9.3 | 9.5 | 9.22 | 00 | 12.0 | 10.2 | 11.1 | 08 | 7.5 | 10.13 | 10.0 | 11.25 | 9.28 | 05 | 15.0 | 15.0 | 01 | 30 | 10.14 |
| 40 - HAMIZI OUANNASSA | 171735017054 | 10.0 | 10.0 | 10.0 | 02 | 10.0 | 10.6 | 8.75 | 9.99 | 08 | 10.1 | 12.4 | 11.25 | 08 | 7.4 | 8.25 | 10.0 | 11.25 | 8.86 | 03 | 13.0 | 13.0 | 01 | 30 | 10.13 |
| 41 - KARA NOUREDDINE | 171735003508 | 15.0 | 13.75 | 14.38 | 02 | 14.4 | 11.2 | 12.75 | 12.79 | 10 | 12.8 | 11.2 | 12.0 | 08 | 8.9 | 10.0 | 12.25 | 13.25 | 10.66 | 09 | 18.0 | 18.0 | 01 | 30 | 12.47 |
| 42 - KHENCHALI ISLAM | 161635012524 | 10.0 | 0.0 | 5.0 | 01 | 0.0 | 7.0 | 0.0 | 2.8 | 00 | 8.9 | 13.6 | 11.25 | 08 | 0.0 | 0.0 | 10.0 | 0.0 | 2.0 | 02 | 10.0 | 10.0 | 01 | 12 | 5.24 |
| 43 - KOUAOUCHA TAIMA | 171735010608 | 12.5 | 12.0 | 12.25 | 02 | 13.4 | 9.3 | 12.0 | 11.48 | 10 | 12.75 | 12.8 | 12.78 | 08 | 10.5 | 11.0 | 15.0 | 15.0 | 12.4 | 09 | 14.0 | 14.0 | 01 | 30 | 12.3 |
| 44 - LAHMAR AMINA | 171735026552 | 14.0 | 13.0 | 13.5 | 02 | 15.4 | 10.3 | 14.0 | 13.08 | 10 | 17.2 | 14.1 | 15.65 | 08 | 10.8 | 11.0 | 15.0 | 15.0 | 12.52 | 09 | 15.0 | 15.0 | 01 | 30 | 13.68 |
| 45 - MAHBOUBI SAIDA | 2192365213 | 15.5 | 10.5 | 13.0 | 02 | 7.0 | 9.4 | 12.0 | 8.96 | 02 | 8.05 | 14.5 | 11.28 | 08 | 10.9 | 10.5 | 12.37 | 14.75 | 11.88 | 09 | 14.0 | 14.0 | 01 | 30 | 11.14 |
| 46 - MANSOURI ILHAM | 171735013898 | 11.0 | 13.0 | 12.0 | 02 | 10.4 | 8.2 | 7.25 | 8.89 | 04 | 7.1 | 8.7 | 7.9 | 00 | 9.6 | 18.13 | 16.0 | 17.75 | 14.22 | 09 | 18.0 | 18.0 | 01 | 30 | 11.13 |
| 47 - MANSOURIA NOUREDDINE | 1995333770 | 12.5 | 12.25 | 12.38 | 02 | 6.0 | 5.5 | 8.0 | 6.2 | 00 | 9.0 | 9.6 | 9.3 | 00 | 10.2 | 9.0 | 15.0 | 15.75 | 12.03 | 09 | 17.0 | 17.0 | 01 | 30 | 10.01 |
| 48 - MEFTAH MOHAMED SADDIK | 181535003647 | 15.5 | 11.0 | 13.25 | 02 | 8.2 | 10.0 | 8.75 | 9.03 | 04 | 8.75 | 8.4 | 8.58 | 00 | 12.1 | 14.0 | 11.5 | 10.25 | 11.99 | 09 | 10.0 | 10.0 | 01 | 30 | 10.35 |
| 49 - MENIA SAFA | 171735007898 | 16.5 | 14.75 | 15.63 | 02 | 12.4 | 11.8 | 13.25 | 12.33 | 10 | 7.9 | 16.0 | 11.95 | 08 | 8.2 | 11.25 | 14.25 | 14.25 | 11.23 | 09 | 18.0 | 18.0 | 01 | 30 | 12.64 |
| 50 - MERZOUGUI ILYES | 161635003838 | 16.0 | 15.5 | 15.75 | 02 | 7.0 | 9.4 | 9.75 | 8.51 | 00 | 11.05 | 11.2 | 11.13 | 08 | 10.6 | 19.0 | 15.5 | 14.13 | 13.97 | 09 | 16.5 | 16.5 | 01 | 30 | 12.05 |
| 51 - MESSELEM Islam | 961535035185 | 17.0 | 14.5 | 15.75 | 02 | 16.0 | 14.2 | 18.5 | 15.78 | 10 | 19.78 | 16.8 | 18.29 | 08 | 14.5 | 19.0 | 17.5 | 18.0 | 16.7 | 09 | 17.0 | 17.0 | 01 | 30 | 16.71 |
| 52 - OUALAH FAYCAL | 161635017303 | 12.0 | 15.0 | 13.5 | 02 | 6.6 | 10.9 | 8.5 | 8.7 | 04 | 7.85 | 10.2 | 9.03 | 04 | 10.3 | 9.0 | 12.87 | 13.5 | 11.19 | 09 | 12.0 | 12.0 | 01 | 30 | 10.27 |

Nombre total des étudiants: 60

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Nom, Prénom et Signature des enseignants:

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| 53 - SELLOUK SIFEDDINE | 161635017811 | 15.0 | 16.0 | 15.5 | 02 | 13.4 | 6.6 | 7.25 | 9.45 | 04 | 11.2 | 16.0 | 13.6 | 08 | 8.6 | 10.0 | 12.0 | 13.25 | 10.49 | 09 | 18.0 | 18.0 | 01 | 30 | 11.95 |
| 54 - TARAI SAMAHIR | 171735018036 | 15.0 | 14.0 | 14.5 | 02 | 11.6 | 11.4 | 12.5 | 11.7 | 10 | 7.4 | 12.4 | 9.9 | 04 | 10.5 | 11.0 | 15.0 | 15.0 | 12.4 | 09 | 18.0 | 18.0 | 01 | 30 | 12.18 |
| 55 - TEBBA HOUDA | 171735017052 | 10.0 | 12.5 | 11.25 | 02 | 12.81 | 11.1 | 11.5 | 11.86 | 10 | 10.4 | 13.0 | 11.7 | 08 | 10.8 | 8.25 | 10.0 | 11.25 | 10.22 | 09 | 15.5 | 15.5 | 01 | 30 | 11.48 |
| 56 - TEBRI MOHAMED REDA | 171735005841 | 12.5 | 15.75 | 14.13 | 02 | 13.4 | 10.9 | 10.0 | 11.72 | 10 | 13.0 | 13.2 | 13.1 | 08 | 8.6 | 10.0 | 9.0 | 13.25 | 9.89 | 03 | 18.0 | 18.0 | 01 | 30 | 12.16 |
| 57 - TOUATI DALAL | 171735007893 | 10.0 | 14.5 | 12.25 | 02 | 15.6 | 12.4 | 13.0 | 13.8 | 10 | 8.2 | 14.9 | 11.55 | 08 | 10.0 | 11.25 | 14.25 | 14.25 | 11.95 | 09 | 18.0 | 18.0 | 01 | 30 | 12.79 |
| 58 - TOUIL Meryem | 161635034145 | 10.0 | 10.5 | 10.25 | 02 | 11.4 | 6.4 | 6.25 | 8.37 | 04 | 9.3 | 9.0 | 9.15 | 00 | 11.5 | 11.63 | 14.75 | 16.0 | 13.08 | 09 | 10.0 | 10.0 | 01 | 30 | 10.26 |
| 59 - ZEROUALI Sabah | 961535033325 | 12.0 | 9.25 | 10.63 | 02 | 7.6 | 8.4 | 8.0 | 8.0 | 00 | 11.6 | 16.0 | 13.8 | 08 | 10.1 | 9.5 | 12.5 | 16.08 | 11.66 | 09 | 10.0 | 10.0 | 01 | 30 | 10.87 |
| 60 - ZIDANE CHAIMA | 171735013977 | 14.0 | 14.0 | 14.0 | 02 | 15.4 | 9.4 | 15.0 | 12.92 | 10 | 13.3 | 18.4 | 15.85 | 08 | 12.0 | 18.13 | 16.0 | 17.75 | 15.18 | 09 | 18.0 | 18.0 | 01 | 30 | 14.7 |

Nombre total des étudiants: 60

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Nom,Prénom et Signature des enseignants:

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