

# Universite Batna 2 Mostafa Benboulaïd

**Faculté:** TECHONOLOGIE

**Département:** Genie Mécanique

**Année Universitaire:** 2020 / 2021

**2 ème année – Domaine: M SCIENCES ET TECHNOLOGIE – Filière: Energies Renouvelables. – Spécialité:  
Energies Renouvelables en Mecanique – 3 ème Semestre**

**Section N° 1 Groupe N° 1**

**PV de la matière :** ER17 : Solaire photovoltaïque et appl de l'unité: UEF 2.1.2

**Crédit:** 4 **Coefficient:** 2 **Matière non requise**

Date : 22/03/2021

| N° | Nom et prénoms               | Matricule    | Etat | Exam  | TD   | TP | Conf | Sem | Proj | Stage | Autre | Rattr | Moy   | Credit | S2 | Ex |
|----|------------------------------|--------------|------|-------|------|----|------|-----|------|-------|-------|-------|-------|--------|----|----|
| 1  | ABA SAMI                     | 635022351    | N    | 9.75  | 11.5 |    |      |     |      |       |       |       | 10.45 | 4.00   |    |    |
| 2  | ABDESSEMED MED<br>YOUSRI     | 635007349    | N    | 6.25  | 6    |    |      |     |      |       |       |       | 6.15  |        |    |    |
| 3  | ALIOUAT ABDELJALIL           | 929292929292 | N    | 14.75 | 17   |    |      |     |      |       |       |       | 15.65 | 4.00   |    |    |
| 4  | ALLAOUI FAIZA                | 1335049808   | N    | 4.25  | 12   |    |      |     |      |       |       |       | 7.35  |        |    |    |
| 5  | ATMANI AZIZ                  | 0111600851   | N    |       |      |    |      |     |      |       |       |       | 0.00  |        |    |    |
| 6  | BELHADJ HATEM                | 635010335    | N    | 8.25  | 13   |    |      |     |      |       |       |       | 10.15 | 4.00   |    |    |
| 7  | BELHOUCHE RAMI               | 635020428    | N    | 4.75  | 6    |    |      |     |      |       |       |       | 5.25  |        |    |    |
| 8  | BEN MERDJA NIDHAL            | 0111601667   | N    | 7.25  | 11   |    |      |     |      |       |       |       | 8.75  |        |    |    |
| 9  | BENDIFALLAH MOHAMMED<br>AMIN | 635006656    | N    | 10    | 12   |    |      |     |      |       |       |       | 10.80 | 4.00   |    |    |
| 10 | BENHIZIA<br>ABDERRAHMANE     | 635018032    | N    | 12.25 | 10.5 |    |      |     |      |       |       |       | 11.55 | 4.00   |    |    |
| 11 | BENSEDIRA TAQIEDDINE         | M1535013624  | N    | 3     | 10.5 |    |      |     |      |       |       |       | 6.00  |        |    |    |
| 12 | BENSEGHIR KHALED             | 1535024833   | N    | 12.5  | 14   |    |      |     |      |       |       |       | 13.10 | 4.00   |    |    |
| 13 | BENYOUCEF IMADEDINE          | 635012305    | N    | 7.5   | 12   |    |      |     |      |       |       |       | 9.30  |        |    |    |
| 14 | BERROU AHMED AMINE           | 635011973    | N    | 9     | 12.5 |    |      |     |      |       |       |       | 10.40 | 4.00   |    |    |
| 15 | BITAM KHOUKHA                | 635023459    | N    | 11.5  | 16   |    |      |     |      |       |       |       | 13.30 | 4.00   |    |    |
| 16 | BOUAKKAZ ILYES               | M115004933   | N    | 3.75  | 10.5 |    |      |     |      |       |       |       | 6.45  |        |    |    |
| 17 | BOUCETTA IBTISSAM            | 635020254    | N    | 10.5  | 15   |    |      |     |      |       |       |       | 12.30 | 4.00   |    |    |
| 18 | BOUHARRA ZIAD                | 064016337    | N    |       |      |    |      |     |      |       |       |       | 0.00  |        |    |    |
| 19 | CHAIBAY KARIMA               | 1535003483   | N    | 7.25  | 8    |    |      |     |      |       |       |       | 7.55  |        |    |    |
| 20 | DRIS ALI                     | M1535012194  | N    | 6.75  | 6    |    |      |     |      |       |       |       | 6.45  |        |    |    |
| 21 | FERDI AZIZ                   | 525252525252 | N    |       |      |    |      |     |      |       |       |       | 0.00  |        |    |    |
| 22 | FERDI KHADIDJA               | 635005832    | N    | 8.25  | 14   |    |      |     |      |       |       |       | 10.55 | 4.00   |    |    |
| 23 | GUENFOUD ABDELKRIM           | 635012496    | N    | 5.25  | 13   |    |      |     |      |       |       |       | 8.35  |        |    |    |
| 24 | HADJAZI SOUFYANE             | 635007299    | N    | 3.75  | 10   |    |      |     |      |       |       |       | 6.25  |        |    |    |
| 25 | HAOUES MED SOFIANE           | 635006676    | N    | 12.25 | 12   |    |      |     |      |       |       |       | 12.15 | 4.00   |    |    |
| 26 | KHELIFI YOUNES               | M1535004222  | N    | 8     | 11   |    |      |     |      |       |       |       | 9.20  |        |    |    |
| 27 | MAADJOU DJ MOUNA             | 635023570    | N    | 17.25 | 18.5 |    |      |     |      |       |       |       | 17.75 | 4.00   |    |    |
| 28 | MAHMOUDI SALAH EDDINE        | M095019500   | N    | 11    | 15   |    |      |     |      |       |       |       | 12.60 | 4.00   |    |    |
| 29 | SAIDI NOR ELHOUDA            | 635018410    | N    | 5     | 13   |    |      |     |      |       |       |       | 8.20  |        |    |    |
| 30 | YEZZA MOHAMMED SALAH         | 635015394    | N    |       |      |    |      |     |      |       |       |       | 0.00  |        |    |    |

Nombre d'étudiants ayant amélioré leurs résultats en 2<sup>o</sup>session: 0      Nombre d'étudiants reçus en 2<sup>o</sup>session: 0  
 Nombre d'étudiants exclus de la matière: 0  
 Nombre total de reçus: 13 sur 30 soit 43.33 %

**Enseignants de la matière (Noms, Prénoms et Signatures)**

1- ..... 3- .....  
 2- ..... 4- .....

# Universite Batna 2 Mostafa Benboulaïd

**Faculté:** TECHONOLOGIE

**Département:** Genie Mécanique

**Année Universitaire:** 2020 / 2021

**2 ème année – Domaine: M SCIENCES ET TECHNOLOGIE – Filière: Energies Renouvelables. – Spécialité:**

**Energies Renouvelables en Mecanique – 3 ème Semestre**

**Section N° 1 Groupe N° 1**

**PV de la matière :** ER18 : Piles combustibles .prod.hydro de l' unité: UEF 2.1.2

**Crédit: 4 Coefficient: 2 Matière non requise**

Date : 22/03/2021

| N° | Nom et prénoms        | Matricule   | Etat | Exam | TD | TP | Conf | Sem | Proj | Stage | Autre | Rattr | Moy   | Credit | S2 | Ex |
|----|-----------------------|-------------|------|------|----|----|------|-----|------|-------|-------|-------|-------|--------|----|----|
| 1  | ABA SAMI              | 635022351   | N    | 12.5 | 14 |    |      |     |      |       |       |       | 13.10 | 4.00   |    |    |
| 2  | ABDESSEMED MED        | 635007349   | N    | 10   | 14 |    |      |     |      |       |       |       | 11.60 | 4.00   |    |    |
| 3  | ALIOUAT ABDELJALIL    | 92929292929 | N    | 14   | 14 |    |      |     |      |       |       |       | 14.00 | 4.00   |    |    |
| 4  | ALLAOUI FAIZA         | 1335049808  | N    | 12   | 14 |    |      |     |      |       |       |       | 12.80 | 4.00   |    |    |
| 5  | ATMANI AZIZ           | 0111600851  | N    |      |    |    |      |     |      |       |       |       | 0.00  |        |    |    |
| 6  | BELHADJ HATEM         | 635010335   | N    | 7.5  | 14 |    |      |     |      |       |       |       | 10.10 | 4.00   |    |    |
| 7  | BELHOUCHE RAMI        | 635020428   | N    | 9    | 14 |    |      |     |      |       |       |       | 11.00 | 4.00   |    |    |
| 8  | BEN MERDJA NIDHAL     | 0111601667  | N    | 16   | 14 |    |      |     |      |       |       |       | 15.20 | 4.00   |    |    |
| 9  | BENDIFALLAH MOHAMMED  | 635006656   | N    | 13   | 14 |    |      |     |      |       |       |       | 13.40 | 4.00   |    |    |
| 10 | BENHIZIA              | 635018032   | N    | 12   | 14 |    |      |     |      |       |       |       | 12.80 | 4.00   |    |    |
| 11 | BENSEDIRA TAQIEDDINE  | M1535013624 | N    | 11   | 14 |    |      |     |      |       |       |       | 12.20 | 4.00   |    |    |
| 12 | BENSEGHIR KHALED      | 1535024833  | N    | 16   | 14 |    |      |     |      |       |       |       | 15.20 | 4.00   |    |    |
| 13 | BENYOUCEF IMADEDLINE  | 635012305   | N    | 9    | 14 |    |      |     |      |       |       |       | 11.00 | 4.00   |    |    |
| 14 | BERROU AHMED AMINE    | 635011973   | N    | 17   | 14 |    |      |     |      |       |       |       | 15.80 | 4.00   |    |    |
| 15 | BITAM KHOUKHA         | 635023459   | N    | 13.5 | 14 |    |      |     |      |       |       |       | 13.70 | 4.00   |    |    |
| 16 | BOUAKKAZ ILYES        | M115004933  | N    | 11   | 14 |    |      |     |      |       |       |       | 12.20 | 4.00   |    |    |
| 17 | BOUCETTA IBTISSAM     | 635020254   | N    | 16   | 14 |    |      |     |      |       |       |       | 15.20 | 4.00   |    |    |
| 18 | BOUHARRA ZIAD         | 064016337   | N    |      |    |    |      |     |      |       |       |       | 0.00  |        |    |    |
| 19 | CHAIBAY KARIMA        | 1535003483  | N    | 10   | 14 |    |      |     |      |       |       |       | 11.60 | 4.00   |    |    |
| 20 | DRIS ALI              | M1535012194 | N    | 6    | 14 |    |      |     |      |       |       |       | 9.20  |        |    |    |
| 21 | FERDI AZIZ            | 52525252525 | N    |      |    |    |      |     |      |       |       |       | 0.00  |        |    |    |
| 22 | FERDI KHADIDJA        | 635005832   | N    | 17.5 | 14 |    |      |     |      |       |       |       | 16.10 | 4.00   |    |    |
| 23 | GUENFOUD ABDELKRIM    | 635012496   | N    | 12   | 14 |    |      |     |      |       |       |       | 12.80 | 4.00   |    |    |
| 24 | HADJAZI SOUFYANE      | 635007299   | N    | 1    | 14 |    |      |     |      |       |       |       | 6.20  |        |    |    |
| 25 | HAOUES MED SOFIANE    | 635006676   | N    | 15.5 | 14 |    |      |     |      |       |       |       | 14.90 | 4.00   |    |    |
| 26 | KHELIFI YOUNES        | M1535004222 | N    | 7    | 14 |    |      |     |      |       |       |       | 9.80  |        |    |    |
| 27 | MAADJOU DJ MOUNA      | 635023570   | N    | 18   | 14 |    |      |     |      |       |       |       | 16.40 | 4.00   |    |    |
| 28 | MAHMOUDI SALAH EDDINE | M095019500  | N    | 7    | 14 |    |      |     |      |       |       |       | 9.80  |        |    |    |
| 29 | SAIDI NOR ELHOUDA     | 635018410   | N    | 6    | 14 |    |      |     |      |       |       |       | 9.20  |        |    |    |
| 30 | YEZZA MOHAMMED SALAH  | 635015394   | N    |      |    |    |      |     |      |       |       |       | 0.00  |        |    |    |

**Nombre d'étudiants ayant amélioré leurs résultats en 2<sup>o</sup>session: 0**      **Nombre d'étudiants reçus en 2<sup>o</sup>session: 0**

**Nombre d'étudiants exclus de la matière: 0**

**Nombre total de reçus 21 sur 30 soit 70.00 %**

**Enseignants de la matière (Noms, Prénoms et Signatures)**

1- ..... 3- .....  
 2- ..... 4- .....

# Universite Batna 2 Mostafa Benboulaïd

**Faculté:** TECHONOLOGIE

**Département:** Genie Mécanique

**Année Universitaire:** 2020 / 2021

**2 ème année – Domaine: M SCIENCES ET TECHNOLOGIE – Filière: Energies Renouvelables. – Spécialité:**

**Energies Renouvelables en Mecanique – 3 ème Semestre**

**Section N° 1 Groupe N° 1**

**PV de la matière :** E19 : Maint.des systemes a energies. de l' unité: UEF 2.1.2

**Crédit: 2 Coefficient: 1 Matière non requise**

Date : 22/03/2021

| N° | Nom et prénoms               | Matricule    | Etat | Exam | TD | TP    | Conf | Sem | Proj | Stage | Autre | Rattr | Moy   | Credit | S2 | Ex |
|----|------------------------------|--------------|------|------|----|-------|------|-----|------|-------|-------|-------|-------|--------|----|----|
| 1  | ABA SAMI                     | 635022351    | N    |      |    | 16.75 |      |     |      |       |       |       | 16.75 | 2.00   |    |    |
| 2  | ABDESSEMED MED<br>YOUSRI     | 635007349    | N    |      |    | 14.5  |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 3  | ALIOUAT ABDELJALIL           | 929292929292 | N    |      |    | 17.25 |      |     |      |       |       |       | 17.25 | 2.00   |    |    |
| 4  | ALLAOUI FAIZA                | 1335049808   | N    |      |    | 16.5  |      |     |      |       |       |       | 16.50 | 2.00   |    |    |
| 5  | ATMANI AZIZ                  | 0111600851   | N    |      |    |       |      |     |      |       |       |       | 0.00  |        |    |    |
| 6  | BELHADJ HATEM                | 635010335    | N    |      |    | 17.5  |      |     |      |       |       |       | 17.50 | 2.00   |    |    |
| 7  | BELHOUCHE RAMI               | 635020428    | N    |      |    | 17.5  |      |     |      |       |       |       | 17.50 | 2.00   |    |    |
| 8  | BEN MERDJA NIDHAL            | 0111601667   | N    |      |    | 16.75 |      |     |      |       |       |       | 16.75 | 2.00   |    |    |
| 9  | BENDIFALLAH MOHAMMED<br>AMIN | 635006656    | N    |      |    | 16.75 |      |     |      |       |       |       | 16.75 | 2.00   |    |    |
| 10 | BENHIZIA<br>ABDERRAHMANE     | 635018032    | N    |      |    | 17    |      |     |      |       |       |       | 17.00 | 2.00   |    |    |
| 11 | BENSEDIRA TAQIEDDINE         | M1535013624  | N    |      |    | 19    |      |     |      |       |       |       | 19.00 | 2.00   |    |    |
| 12 | BENSEGHIR KHALED             | 1535024833   | N    |      |    | 17.25 |      |     |      |       |       |       | 17.25 | 2.00   |    |    |
| 13 | BENYOUCEF IMADEDLINE         | 635012305    | N    |      |    | 18    |      |     |      |       |       |       | 18.00 | 2.00   |    |    |
| 14 | BERROU AHMED AMINE           | 635011973    | N    |      |    | 17    |      |     |      |       |       |       | 17.00 | 2.00   |    |    |
| 15 | BITAM KHOUKHA                | 635023459    | N    |      |    | 16.75 |      |     |      |       |       |       | 16.75 | 2.00   |    |    |
| 16 | BOUAKKAZ ILYES               | M115004933   | N    |      |    | 17.5  |      |     |      |       |       |       | 17.50 | 2.00   |    |    |
| 17 | BOUCETTA IBTISSAM            | 635020254    | N    |      |    | 17.5  |      |     |      |       |       |       | 17.50 | 2.00   |    |    |
| 18 | BOUHARRA ZIAD                | 064016337    | N    |      |    |       |      |     |      |       |       |       | 0.00  |        |    |    |
| 19 | CHAIBAY KARIMA               | 1535003483   | N    |      |    | 16.75 |      |     |      |       |       |       | 16.75 | 2.00   |    |    |
| 20 | DRIS ALI                     | M1535012194  | N    |      |    | 15    |      |     |      |       |       |       | 15.00 | 2.00   |    |    |
| 21 | FERDI AZIZ                   | 525252525252 | N    |      |    | 17    |      |     |      |       |       |       | 17.00 | 2.00   |    |    |
| 22 | FERDI KHADIDJA               | 635005832    | N    |      |    | 17.5  |      |     |      |       |       |       | 17.50 | 2.00   |    |    |
| 23 | GUENFOUD ABDELKRIM           | 635012496    | N    |      |    | 15    |      |     |      |       |       |       | 15.00 | 2.00   |    |    |
| 24 | HADJAZI SOUFYANE             | 635007299    | N    |      |    | 16.5  |      |     |      |       |       |       | 16.50 | 2.00   |    |    |
| 25 | HAOUES MED SOFIANE           | 635006676    | N    |      |    | 17.75 |      |     |      |       |       |       | 17.75 | 2.00   |    |    |
| 26 | KHELIFI YOUNES               | M1535004222  | N    |      |    | 17    |      |     |      |       |       |       | 17.00 | 2.00   |    |    |
| 27 | MAADJOUJ MOUNA               | 635023570    | N    |      |    | 18    |      |     |      |       |       |       | 18.00 | 2.00   |    |    |
| 28 | MAHMOUDI SALAH EDDINE        | M095019500   | N    |      |    | 14.5  |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 29 | SAIDI NOR ELHOUDA            | 635018410    | N    |      |    | 10    |      |     |      |       |       |       | 10.00 | 2.00   |    |    |
| 30 | YEZZA MOHAMMED SALAH         | 635015394    | N    |      |    |       |      |     |      |       |       |       | 0.00  |        |    |    |

**Nombre d'étudiants ayant amélioré leurs résultats en 2<sup>o</sup>session: 0**      **Nombre d'étudiants reçus en 2<sup>o</sup>session: 0**  
**Nombre d'étudiants exclus de la matière: 0**  
**Nombre total de reçus 27 sur 30 soit 90.00 %**

**Enseignants de la matière (Noms, Prénoms et Signatures)**

1- ..... 3- .....  
 2- ..... 4- .....

# Universite Batna 2 Mostafa Benboulaïd

**Faculté:** TECHONOLOGIE

**Département:** Genie Mécanique

**Année Universitaire:** 2020 / 2021

**2 ème année – Domaine: M SCIENCES ET TECHNOLOGIE – Filière: Energies Renouvelables. – Spécialité:**

**Energies Renouvelables en Mecanique – 3 ème Semestre**

**Section N° 1 Groupe N° 1**

**PV de la matière :** ER20 : Logiciels de simulation.dim. de l' unité: UEM 2.1

**Crédit: 2 Coefficient: 1 Matière non requise**

Date : 22/03/2021

| N° | Nom et prénoms               | Matricule    | Etat | Exam | TD | TP   | Conf | Sem | Proj | Stage | Autre | Rattr | Moy   | Credit | S2 | Ex |
|----|------------------------------|--------------|------|------|----|------|------|-----|------|-------|-------|-------|-------|--------|----|----|
| 1  | ABA SAMI                     | 635022351    | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 2  | ABDESSEMED MED<br>YOUSRI     | 635007349    | N    |      |    | 16   |      |     |      |       |       |       | 16.00 | 2.00   |    |    |
| 3  | ALIOUAT ABDELJALIL           | 929292929292 | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 4  | ALLAOUI FAIZA                | 1335049808   | N    |      |    | 14.5 |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 5  | ATMANI AZIZ                  | 0111600851   | N    |      |    |      |      |     |      |       |       |       | 0.00  |        |    |    |
| 6  | BELHADJ HATEM                | 635010335    | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 7  | BELHOUCHE RAMI               | 635020428    | N    |      |    | 14.5 |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 8  | BEN MERDJA NIDHAL            | 0111601667   | N    |      |    | 15.5 |      |     |      |       |       |       | 15.50 | 2.00   |    |    |
| 9  | BENDIFALLAH MOHAMMED<br>AMIN | 635006656    | N    |      |    | 16   |      |     |      |       |       |       | 16.00 | 2.00   |    |    |
| 10 | BENHIZIA<br>ABDERRAHMANE     | 635018032    | N    |      |    | 16   |      |     |      |       |       |       | 16.00 | 2.00   |    |    |
| 11 | BENSEDIRA TAQIEDDINE         | M1535013624  | N    |      |    | 17   |      |     |      |       |       |       | 17.00 | 2.00   |    |    |
| 12 | BENSEGHIR KHALED             | 1535024833   | N    |      |    | 14.5 |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 13 | BENYOUCEF IMADEDINE          | 635012305    | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 14 | BERROU AHMED AMINE           | 635011973    | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 15 | BITAM KHOUKHA                | 635023459    | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 16 | BOUAKKAZ ILYES               | M115004933   | N    |      |    | 17   |      |     |      |       |       |       | 17.00 | 2.00   |    |    |
| 17 | BOUCETTA IBTISSAM            | 635020254    | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 18 | BOUHARRA ZIAD                | 064016337    | N    |      |    |      |      |     |      |       |       |       | 0.00  |        |    |    |
| 19 | CHAIBAY KARIMA               | 1535003483   | N    |      |    | 15.5 |      |     |      |       |       |       | 15.50 | 2.00   |    |    |
| 20 | DRIS ALI                     | M1535012194  | N    |      |    | 16   |      |     |      |       |       |       | 16.00 | 2.00   |    |    |
| 21 | FERDI AZIZ                   | 525252525252 | N    |      |    | 14.5 |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 22 | FERDI KHADIDJA               | 635005832    | N    |      |    | 15   |      |     |      |       |       |       | 15.00 | 2.00   |    |    |
| 23 | GUENFOUD ABDELKRIM           | 635012496    | N    |      |    | 14   |      |     |      |       |       |       | 14.00 | 2.00   |    |    |
| 24 | HADJAZI SOUFYANE             | 635007299    | N    |      |    | 14.5 |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 25 | HAOUES MED SOFIANE           | 635006676    | N    |      |    | 16   |      |     |      |       |       |       | 16.00 | 2.00   |    |    |
| 26 | KHELIFI YOUNES               | M1535004222  | N    |      |    | 15.5 |      |     |      |       |       |       | 15.50 | 2.00   |    |    |
| 27 | MAADJOU DJ MOUNA             | 635023570    | N    |      |    | 18   |      |     |      |       |       |       | 18.00 | 2.00   |    |    |
| 28 | MAHMOUDI SALAH EDDINE        | M095019500   | N    |      |    | 14.5 |      |     |      |       |       |       | 14.50 | 2.00   |    |    |
| 29 | SAIDI NOR ELHOUDA            | 635018410    | N    |      |    | 15   |      |     |      |       |       |       | 15.00 | 2.00   |    |    |
| 30 | YEZZA MOHAMMED SALAH         | 635015394    | N    |      |    |      |      |     |      |       |       |       | 0.00  |        |    |    |

**Nombre d'étudiants ayant amélioré leurs résultats en 2<sup>o</sup>session: 0**      **Nombre d'étudiants reçus en 2<sup>o</sup>session: 0**

**Nombre d'étudiants exclus de la matière: 0**

**Nombre total de reçus 27 sur 30 soit 90.00 %**

**Enseignants de la matière (Noms, Prénoms et Signatures)**

1- .....  
2- .....

3- .....  
4- .....