

# *Apogée*

*REALISE PAR  
Mr JAOUAD*

**Université Sidi Mohamed Ben Abdellah**

**PROCES-VERBAL PROVISOIRE DE DELIBERATION**

Demandeur : GHZIZAL

Elément pédagogique : ETP23240 Opérations Unitaires II

ETP23240 ÇaUäÕÑ ÇàÈÏÇUæ

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| Identification des étudiants |          |                       | Résultat |     | ETP23214<br>Technologies<br>des Colonnes |     | ETP2321T<br>TP<br>Technologies d |     | ETP23224<br>Filtration |     | ETP2322T<br>TP Filtration |     | ETP23234<br>Séchage |     | ETP2323T<br>TP Séchage |     |
|------------------------------|----------|-----------------------|----------|-----|------------------------------------------|-----|----------------------------------|-----|------------------------|-----|---------------------------|-----|---------------------|-----|------------------------|-----|
| CNE                          | CIN      | NOM & PRENOM          | Ado / 20 | RES | Ado / 20                                 | RES | Ado / 20                         | RES | Ado / 20               | RES | Ado / 20                  | RES | Ado / 20            | RES | Ado / 20               | RES |
| 1513625888                   | GK143289 | ADID AYOUB            | 12.708   | V   | 11.75                                    |     | 13.5                             |     | 15.5                   |     | 13.5                      |     | 11.5                |     | 11                     |     |
| M139534971                   | VM11706  | AIACH FATIMA          | 13.808   | V   | 15                                       |     | 14                               |     | 13.5                   |     | 14                        |     | 12                  |     | 13                     |     |
| S147011339                   | Z615546  | AKHSSAS MONIM         | 13.4     | V   | 13.5                                     |     | 17                               |     | 12                     |     | 17                        |     | 11                  |     | 14                     |     |
| N132284631                   | CB318334 | AMENSOUR DOHA         | 12.605   | V   | 9.25                                     |     | 15                               |     | 15                     |     | 15                        |     | 14                  |     | 13                     |     |
| 1512754589                   | CD587045 | BEKKARI OTHMANE       | 12.275   | V   | 13                                       |     | 14                               |     | 14                     |     | 14                        |     | 7                   |     | 14                     |     |
| 1513535792                   | AD281017 | BENIDER OUMNIA        | 12.675   | V   | 11.25                                    |     | 15                               |     | 12                     |     | 15                        |     | 13                  |     | 15                     |     |
| J139272156                   | AE203992 | BENTALHA MOHAMED      | 12.558   | V   | 14.75                                    |     | 13                               |     | 11                     |     | 13                        |     | 9.5                 |     | 13                     |     |
| 1513753516                   | CD272656 | BERREZAG AYOUB        | 13.565   | V   | 15.5                                     |     | 14                               |     | 12.5                   |     | 14                        |     | 10.5                |     | 14                     |     |
| 1512348885                   | BK632516 | BIHAQUI ACHRAF        | 13.31    | V   | 11                                       |     | 14                               |     | 14.5                   |     | 14                        |     | 15.5                |     | 14                     |     |
| 1512751360                   | CD257463 | BOULMANE HASSANE      | 11.968   | R   | 10.25                                    |     | 14                               |     | 11.5                   |     | 14                        |     | 13                  |     | 14                     |     |
| N148019736                   | CD712170 | BOUSLMTI YOUSSEF      | 11.515   | R   | 13.75                                    |     | 13                               |     | 8.5                    |     | 13                        |     | 8.5                 |     | 13                     |     |
| N130276738                   | CB320753 | BOUZOUGGART BRAHIM    | 14.058   | V   | 12.25                                    |     | 13.5                             |     | 18                     |     | 13.5                      |     | 15                  |     | 11                     |     |
| S145045921                   | Z615750  | CHAREF IKRAME         | 11.77    | R   | 9.25                                     |     | 14                               |     | 12.5                   |     | 14                        |     | 13.5                |     | 12                     |     |
| 1513780057                   | CD587961 | CHARKAOUI CHAIMAE     | 12.823   | V   | 10                                       |     | 17                               |     | 12                     |     | 17                        |     | 13.5                |     | 17                     |     |
| 1513235320                   | M589956  | CHEBBAKI KHADIJA      | 12.503   | V   | 9.75                                     |     | 14                               |     | 14                     |     | 14                        |     | 14.5                |     | 13                     |     |
| N139152336                   | CD684179 | CHOUF KAOUTAR         | 13.638   | V   | 12.75                                    |     | 15                               |     | 13                     |     | 15                        |     | 14.5                |     | 14                     |     |
| E132174974                   | GK146173 | DAOUDI AICHA          | 11.75    | R   | 11                                       |     | 14                               |     | 8.5                    |     | 14                        |     | 13.5                |     | 14                     |     |
| F142029863                   | WA240978 | DARKAOUI OUMAIMA      | 10.22    | R   | 7.5                                      |     | 15                               |     | 12.5                   |     | 15                        |     | 7.5                 |     | 13                     |     |
| 1513812839                   | ZT238332 | DRANI AYOUB           | 12.665   | V   | 10.25                                    |     | 12.5                             |     | 14                     |     | 12.5                      |     | 16.5                |     | 11                     |     |
| N136383823                   | CN32100  | EL GOMRI ANASS        | 12.148   | V   | 9.75                                     |     | 17                               |     | 11.5                   |     | 17                        |     | 12                  |     | 14                     |     |
| N139378235                   | CD259515 | EL GOTAIBI EL BATOUL  | 12.478   | V   | 12.75                                    |     | 14                               |     | 9.5                    |     | 14                        |     | 13                  |     | 14                     |     |
| 1513779997                   | CD672298 | EL GUENNOUNI AYOUB    | 15.645   | V   | 15.5                                     |     | 14                               |     | 19                     |     | 14                        |     | 15                  |     | 13                     |     |
| N133177837                   | CD558530 | EL HAMMOUMI ZAKARIAE  | 12.703   | V   | 10                                       |     | 16                               |     | 11                     |     | 16                        |     | 15.5                |     | 15                     |     |
| N132247134                   | CD681574 | EL JAMGHILI DRISS     | 14.773   | V   | 14.25                                    |     | 14                               |     | 16                     |     | 14                        |     | 15.5                |     | 14                     |     |
| 1513249609                   | HA206575 | EL KHOURY ABDESSAMAD  | 11.165   | R   | 8.25                                     |     | 12.5                             |     | 13                     |     | 12.5                      |     | 13.5                |     | 11                     |     |
| 1513613138                   | G708625  | EL MEJRAB HAFSA       | 13.425   | V   | 14.75                                    |     | 14                               |     | 12                     |     | 14                        |     | 12                  |     | 13                     |     |
| N137246934                   | CD682441 | EL MOURADI YOUNES     | 13.288   | V   | 11.75                                    |     | 14                               |     | 13                     |     | 14                        |     | 15.5                |     | 14                     |     |
| R130022650                   | T287637  | EL-ASRI YASSIR        | 12.805   | V   | 13                                       |     | 13                               |     | 9.5                    |     | 13                        |     | 15.5                |     | 13                     |     |
| N134094599                   | CN30465  | EL-KHADIR KHADIJA     | 13.315   | V   | 13                                       |     | 14                               |     | 12.5                   |     | 14                        |     | 14.5                |     | 12                     |     |
| N130369681                   | CD286045 | EL-MONTASSER NOUHAYLA | 9.523    | R   | 5.5                                      |     | 16                               |     | 10.5                   |     | 16                        |     | 8                   |     | 15                     |     |

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| CNE        | CIN      | NOM & PRENOM          | Ado / 20 | RES |
|------------|----------|-----------------------|----------|-----|
| 1513625888 | GK143289 | ADID AYOUB            | 12.708   | V   |
| M139534971 | VM11706  | AIACH FATIMA          | 13.808   | V   |
| S147011339 | Z615546  | AKHSSAS MONIM         | 13.4     | V   |
| N132284631 | CB318334 | AMENSOUR DOHA         | 12.605   | V   |
| 1512754589 | CD587045 | BEKKARI OTHMANE       | 12.275   | V   |
| 1513535792 | AD281017 | BENIDER OUMNIA        | 12.675   | V   |
| J139272156 | AE203992 | BENTALHA MOHAMED      | 12.558   | V   |
| 1513753516 | CD272656 | BERREZAG AYOUB        | 13.565   | V   |
| 1512348885 | BK632516 | BIHAQUI ACHRAF        | 13.31    | V   |
| 1512751360 | CD257463 | BOULMANE HASSANE      | 11.968   | R   |
| N148019736 | CD712170 | BOUSLMTI YOUSSEF      | 11.515   | R   |
| N130276738 | CB320753 | BOUZOUGGART BRAHIM    | 14.058   | V   |
| S145045921 | Z615750  | CHAREF IKRAME         | 11.77    | R   |
| 1513780057 | CD587961 | CHARKAOUI CHAIMAE     | 12.823   | V   |
| 1513235320 | M589956  | CHEBBAKI KHADIJA      | 12.503   | V   |
| N139152336 | CD684179 | CHOUF KAOUTAR         | 13.638   | V   |
| E132174974 | GK146173 | DAOUDI AICHA          | 11.75    | R   |
| F142029863 | WA240978 | DARKAOUI OUMAIMA      | 10.22    | R   |
| 1513812839 | ZT238332 | DRANI AYOUB           | 12.665   | V   |
| N136383823 | CN32100  | EL GOMRI ANASS        | 12.148   | V   |
| N139378235 | CD259515 | EL GOTAIBI EL BATOUL  | 12.478   | V   |
| 1513779997 | CD672298 | EL GUENNOUNI AYOUB    | 15.645   | V   |
| N133177837 | CD558530 | EL HAMMOUMI ZAKARIAE  | 12.703   | V   |
| N132247134 | CD681574 | EL JAMGHILI DRISS     | 14.773   | V   |
| 1513249609 | HA206575 | EL KHOURY ABDESSAMAD  | 11.165   | R   |
| 1513613138 | G708625  | EL MEJRAB HAFSA       | 13.425   | V   |
| N137246934 | CD682441 | EL MOURADI YOUNES     | 13.288   | V   |
| R130022650 | T287637  | EL-ASRI YASSIR        | 12.805   | V   |
| N134094599 | CN30465  | EL-KHADIR KHADIJA     | 13.315   | V   |
| N130369681 | CD286045 | EL-MONTASSER NOUHAYLA | 9.523    | R   |

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| Identification des étudiants |           |                          | Résultat |     | ETP23214<br>Technologies<br>des Colonnes |     | ETP2321T<br>TP<br>Technologies d |     | ETP23224<br>Filtration |     | ETP2322T<br>TP Filtration |     | ETP23234<br>Séchage |     | ETP2323T<br>TP Séchage |     |
|------------------------------|-----------|--------------------------|----------|-----|------------------------------------------|-----|----------------------------------|-----|------------------------|-----|---------------------------|-----|---------------------|-----|------------------------|-----|
| CNE                          | CIN       | NOM & PRENOM             | Ado / 20 | RES | Ado / 20                                 | RES | Ado / 20                         | RES | Ado / 20               | RES | Ado / 20                  | RES | Ado / 20            | RES | Ado / 20               | RES |
| S136312276                   | ZT253313  | EL-OTMANI NAJLAE         | 13.423   | V   | 15.25                                    |     | 16                               |     | 6.5                    |     | 16                        |     | 14                  |     | 15                     |     |
| N140029870                   | CD472109  | ELKHOLTE ANASS           | 11.548   | R   | 8                                        |     | 14                               |     | 12                     |     | 14                        |     | 14.5                |     | 14                     |     |
| R132259463                   | BK530638  | ELMOUIH ABDELKRIM        | 9.013    | R   | 8.5                                      |     | 12.5                             |     | 7                      |     | 12.5                      |     | 8                   |     | 11                     |     |
| 1586230003                   | N16221577 | ERNESTO FELIX DOS SANTO  | 12.808   | V   | 12.25                                    |     | 15                               |     | 11.5                   |     | 15                        |     | 13                  |     | 13                     |     |
| E140005866                   | GJ50795   | HAMR EL HANK OUMAIMA     | 12.855   | V   | 11.75                                    |     | 15                               |     | 12                     |     | 15                        |     | 13                  |     | 15                     |     |
| 1513160489                   | ID83241   | HANDOUR AZIZA            | 13.558   | V   | 11.5                                     |     | 17                               |     | 12                     |     | 17                        |     | 15.5                |     | 14                     |     |
| N136255908                   | CD741024  | HMAIDAT OUMAIMA          | 10.76    | R   | 8.25                                     |     | 14                               |     | 10                     |     | 14                        |     | 12                  |     | 14                     |     |
| N134152259                   | CD692500  | JABOR TLEMCANI SIF EDDIN | 15.383   | V   | 14.5                                     |     | 14                               |     | 19                     |     | 14                        |     | 15.5                |     | 13                     |     |
| K139432390                   | HA213572  | JARADY SALMA             | 16.338   | V   | 17                                       |     | 15                               |     | 15                     |     | 15                        |     | 18.5                |     | 14                     |     |
| N134378813                   | CD599638  | KOUROU AMINE             | 15.345   | V   | 16.5                                     |     | 15                               |     | 15                     |     | 15                        |     | 14                  |     | 15                     |     |
| 1513780087                   | CD587962  | LARHRISSI WAFAE          | 9.283    | R   | 7.75                                     |     | 17                               |     | 7.5                    |     | 17                        |     | 4                   |     | 17                     |     |
| N136198136                   | CD750762  | LOUARDI MOHAMMED         | 12.965   | V   | 9.5                                      |     | 14                               |     | 13.5                   |     | 14                        |     | 16.5                |     | 17                     |     |
| M134537093                   | VM10667   | LRHAZOULI IKRAM          | 15.85    | V   | 16.75                                    |     | 12.5                             |     | 19                     |     | 12.5                      |     | 15.5                |     | 12                     |     |
| 1513172366                   | ID83611   | MADKOURI MOHAMED         | 11.458   | R   | 7.75                                     |     | 14                               |     | 11                     |     | 14                        |     | 15.5                |     | 14                     |     |
| N139276740                   | CB399488  | MANOURI HAMZA            | 14.553   | V   | 12.25                                    |     | 16                               |     | 17                     |     | 16                        |     | 14.5                |     | 16                     |     |
| 1513942325                   | UB89580   | MAROUI KHALIL            | 10.84    | R   | 8.25                                     |     | 12.5                             |     | 12.5                   |     | 12.5                      |     | 12                  |     | 12                     |     |
| R139771766                   | BK664026  | MASLOUH HAITHAM          | 16.795   | V   | 15.5                                     |     | 16                               |     | 17                     |     | 16                        |     | 20                  |     | 16                     |     |
| S148052661                   | Z605736   | MATTESS YASSINE          | 11.268   | R   | 10.5                                     |     | 15                               |     | 13.5                   |     | 15                        |     | 6                   |     | 14                     |     |
| 1513172222                   | ID83368   | MESSNI HASNA             | 11.993   | R   | 8                                        |     | 15                               |     | 12                     |     | 15                        |     | 15.5                |     | 15                     |     |
| 1512923393                   | VM10213   | MOUSSAID MOHAMED         | 12.73    | V   | 13.5                                     |     | 12.5                             |     | 13.5                   |     | 12.5                      |     | 11                  |     | 12                     |     |
| S133433417                   | Z615663   | MSSISSI SOUMIA           | 10.353   | R   | 7.75                                     |     | 14                               |     | 8                      |     | 14                        |     | 13.5                |     | 12                     |     |
| J138469572                   | X191803   | NAAMAN BRAHIM            | 13.468   | V   | 12.25                                    |     | 14                               |     | 15                     |     | 14                        |     | 13.5                |     | 14                     |     |
| 1513628930                   | GJ46677   | NAJY IKRAM               | 12.045   | V   | 9.5                                      |     | 15                               |     | 10                     |     | 15                        |     | 15                  |     | 15                     |     |
| N139255821                   | CD514849  | OUAZZANI MAHDI           | 13.968   | V   | 14.5                                     |     | 12.5                             |     | 15                     |     | 12.5                      |     | 14                  |     | 12                     |     |
| 1513936466                   | DA91318   | SAIRH NABILA             | 13.22    | V   | 10.75                                    |     | 14                               |     | 15.5                   |     | 14                        |     | 14.5                |     | 14                     |     |
| 1512789588                   | CD557485  | TALBY MOHAMMED           | 11.8     | R   | 9.75                                     |     | 16                               |     | 13                     |     | 16                        |     | 9                   |     | 16                     |     |

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| CNE        | CIN       | NOM & PRENOM             | Ado / 20 | RES |
|------------|-----------|--------------------------|----------|-----|
| S136312276 | ZT253313  | EL-OTMANI NAJLAE         | 13.423   | V   |
| N140029870 | CD472109  | ELKHOLTE ANASS           | 11.548   | R   |
| R132259463 | BK530638  | ELMOUIH ABDELKRIM        | 9.013    | R   |
| 1586230003 | N16221577 | ERNESTO FELIX DOS SANTO  | 12.808   | V   |
| E140005866 | GJ50795   | HAMR EL HANK OUMAIMA     | 12.855   | V   |
| 1513160489 | ID83241   | HANDOUR AZIZA            | 13.558   | V   |
| N136255908 | CD741024  | HMAIDAT OUMAIMA          | 10.76    | R   |
| N134152259 | CD692500  | JABOR TLEMCANI SIF EDDIN | 15.383   | V   |
| K139432390 | HA213572  | JARADY SALMA             | 16.338   | V   |
| N134378813 | CD599638  | KOUROU AMINE             | 15.345   | V   |
| 1513780087 | CD587962  | LARHRISSI WAFAE          | 9.283    | R   |
| N136198136 | CD750762  | LOUARDI MOHAMMED         | 12.965   | V   |
| M134537093 | VM10667   | LRHAZOULI IKRAM          | 15.85    | V   |
| 1513172366 | ID83611   | MADKOURI MOHAMED         | 11.458   | R   |
| N139276740 | CB399488  | MANOURI HAMZA            | 14.553   | V   |
| 1513942325 | UB89580   | MAROUI KHALIL            | 10.84    | R   |
| R139771766 | BK664026  | MASLOUH HAITHAM          | 16.795   | V   |
| S148052661 | Z605736   | MATTESS YASSINE          | 11.268   | R   |
| 1513172222 | ID83368   | MESSNI HASNA             | 11.993   | R   |
| 1512923393 | VM10213   | MOUSSAID MOHAMED         | 12.73    | V   |
| S133433417 | Z615663   | MSSISSI SOUMIA           | 10.353   | R   |
| J138469572 | X191803   | NAAMAN BRAHIM            | 13.468   | V   |
| 1513628930 | GJ46677   | NAJY IKRAM               | 12.045   | V   |
| N139255821 | CD514849  | OUAZZANI MAHDI           | 13.968   | V   |
| 1513936466 | DA91318   | SAIRH NABILA             | 13.22    | V   |
| 1512789588 | CD557485  | TALBY MOHAMMED           | 11.8     | R   |

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| Identification des étudiants |     |              | Résultat |     | ETP23214<br>Technologies<br>des Colonnes |     | ETP2321T<br>TP<br>Technologies d |     | ETP23224<br>Filtration |     | ETP2322T<br>TP Filtration |     | ETP23234<br>Séchage |     | ETP2323T<br>TP Séchage |     |
|------------------------------|-----|--------------|----------|-----|------------------------------------------|-----|----------------------------------|-----|------------------------|-----|---------------------------|-----|---------------------|-----|------------------------|-----|
|                              |     |              | Ado / 20 | RES | Ado / 20                                 | RES | Ado / 20                         | RES | Ado / 20               | RES | Ado / 20                  | RES | Ado / 20            | RES | Ado / 20               | RES |
| CNE                          | CIN | NOM & PRENOM | Ado / 20 | RES | Ado / 20                                 | RES | Ado / 20                         | RES | Ado / 20               | RES | Ado / 20                  | RES | Ado / 20            | RES | Ado / 20               | RES |
| note max                     |     |              |          |     |                                          |     |                                  |     |                        |     |                           |     |                     |     |                        |     |
| note min                     |     |              | 16.795   |     | 17                                       |     | 17                               |     | 19                     |     | 17                        |     | 20                  |     | 17                     |     |
| note moy                     |     |              | 9.013    |     | 5.5                                      |     | 12.5                             |     | 6.5                    |     | 12.5                      |     | 4                   |     | 11                     |     |
| écart type                   |     |              | 12.763   |     | 11.571                                   |     | 14.420                           |     | 12.768                 |     | 14.420                    |     | 13.071              |     | 13.696                 |     |
| moy - écart type             |     |              | 1.643    |     | 2.781                                    |     | 1.275                            |     | 2.894                  |     | 1.275                     |     | 3.055               |     | 1.513                  |     |
|                              |     |              | 11.119   |     | 8.791                                    |     | 13.145                           |     | 9.874                  |     | 13.145                    |     | 10.017              |     | 12.184                 |     |

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**Ado / 20**    **RES**

note max  
note min  
note moy  
écart type  
moy - écart type

16.795  
9.013  
12.763  
1.643  
11.119

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**Nombre total d'étudiants :** 56**Nombre et % de validés :** 39 / 69.64 %**Nombre et % d'ajournés :** 17 / 30.36 %**Nombre d'absents :** 0**Sans résultats :** 0

Le président du jury :

Date:

Les membres du jury :