

## Module : Administration et programmation systèmes

| Code Apogée | Nom             | Prénom      | Administration systèmes | Programmation systèmes | Note Finale |
|-------------|-----------------|-------------|-------------------------|------------------------|-------------|
| 17004026    | EL YAZGHI       | MARYEM      | 18.41                   | 17.7                   | 15.04       |
| 19005680    | FAROUK          | ZAKARIA     | 13.98                   | 12.82                  | 12.18       |
| 19006658    | EL HARIRI       | KENZA       | 18.89                   | 14.08                  | 15.46       |
| 20000104    | LABJAKH         | SAFAE       | 13.21                   | 19.2                   | 10.36       |
| 20000927    | KORAICHI        | SALMANE     | 11.32                   | 15.83                  | 10.79       |
| 20001713    | TAIBI IMMRANI   | AMAL        | 16.12                   | 14.29                  | 18.0        |
| 20001758    | AL AZAMI        | TAREK       | 18.46                   | 17.7                   | 18.37       |
| 20007042    | EL FERCHOUNI    | SOUKAYNA    | 12.44                   | 13.21                  | 10.16       |
| 20007695    | RANBOUK         | LAMIAE      | 16.12                   | 17.29                  | 11.85       |
| 20007896    | EL OUAHABI      | ANASS       | 12.63                   | 15.08                  | 18.24       |
| 20009973    | KABBOUR         | WISSAL      | 18.93                   | 10.49                  | 10.13       |
| 20011005    | BOUHNINE        | SAFAA       | 19.23                   | 16.05                  | 19.48       |
| 21002603    | BOUKER          | MOHAMMED    | 12.14                   | 17.35                  | 16.04       |
| 21009025    | BOUSSAID        | MERYEME     | 15.73                   | 13.31                  | 14.9        |
| 21009110    | BERKOUKT        | AMINE       | 19.9                    | 18.87                  | 16.87       |
| 21009157    | AZZMAN          | NORELIMANE  | 14.21                   | 18.03                  | 18.29       |
| 21009322    | SARSRI          | AYMANE      | 15.75                   | 16.39                  | 18.42       |
| 21009475    | DAHBI           | MOAD        | 18.49                   | 12.57                  | 19.83       |
| 21010011    | IKEN            | HANAE       | 10.76                   | 14.29                  | 17.34       |
| 21010231    | KEROUAN SALAH   | SOUMAIA     | 12.63                   | 19.44                  | 15.44       |
| 21010242    | STITOU          | ABIR        | 10.46                   | 15.3                   | 11.28       |
| 21010255    | TAJIDI          | MALIKA      | 18.85                   | 10.7                   | 14.83       |
| 21010261    | BOULERBAH       | YASSER      | 17.43                   | 15.04                  | 17.8        |
| 21010266    | AIDOUN          | IBTISSAM    | 14.42                   | 14.27                  | 15.66       |
| 21010272    | EL AOUD         | OUAAIL      | 13.65                   | 16.19                  | 11.19       |
| 21010274    | EL GARTI        | YASSINE     | 16.74                   | 11.63                  | 16.59       |
| 21010278    | ABDELOUAHAB     | SOUFIANE    | 14.53                   | 14.28                  | 19.0        |
| 21010287    | ALLAM           | ELARBI      | 18.01                   | 12.38                  | 11.2        |
| 21010291    | LOUAH           | MOHAMMED    | 14.59                   | 13.77                  | 16.62       |
| 21010299    | CHERKI          | HOUSSAM     | 19.82                   | 16.19                  | 18.1        |
| 21010306    | EL-BATTEOUI     | OUSSAMA     | 18.77                   | 14.15                  | 14.37       |
| 21010319    | EL GHAZI        | SILIA       | 19.29                   | 11.75                  | 12.11       |
| 21010320    | HADAD           | WAIL        | 13.17                   | 19.16                  | 19.39       |
| 21010322    | EL HARRAK       | MEHDI       | 17.59                   | 18.11                  | 14.53       |
| 21010324    | EL BAKALI       | MALAK       | 15.37                   | 16.39                  | 16.5        |
| 21010326    | CHAIBERRAS      | SOUHAIL     | 17.73                   | 17.4                   | 10.44       |
| 21010332    | OULAD MAALEM    | AYOUB       | 14.27                   | 11.17                  | 17.1        |
| 21010334    | HILALY          | ANAS        | 13.25                   | 17.71                  | 16.74       |
| 21010348    | SOULHI          | MALAK       | 15.34                   | 17.95                  | 19.02       |
| 21010356    | AZZOUZ          | CHAIMAE     | 13.98                   | 11.18                  | 12.33       |
| 21010358    | AHMYTTOU        | AYA         | 11.16                   | 14.56                  | 19.58       |
| 21010359    | HAJOUZ          | RIHAB       | 15.6                    | 16.74                  | 18.52       |
| 21010368    | JEBARI HASSANI  | ABDELHAK    | 11.81                   | 16.87                  | 17.19       |
| 21010379    | EL AIDI IDRISSI | ACHRAF      | 15.2                    | 18.71                  | 19.29       |
| 21010395    | ABBAD           | ABDELOUAHED | 15.74                   | 14.89                  | 10.58       |
| 21010401    | SAKHRI          | MOHAMED     | 18.52                   | 16.94                  | 15.45       |
| 21010403    | EL ADNANI       | EL MEHDI    | 17.83                   | 10.12                  | 19.43       |
| 21010409    | ZAHAR           | KENZA       | 18.03                   | 19.49                  | 13.9        |
| 21010411    | BEN IMRAN       | AHLAM       | 14.05                   | 10.8                   | 14.53       |
| 21010423    | EL MATNI        | ADAM        | 15.79                   | 14.19                  | 19.13       |
| 21010439    | ECHCHRIKI       | IMAD        | 17.26                   | 18.0                   | 12.03       |



# Université Abdelmalek Essaâdi École Nationale des Sciences Appliquées Tanger



| Code Apogée | Nom           | Prénom         | Administration systèmes | Programmation systèmes | Note Finale |
|-------------|---------------|----------------|-------------------------|------------------------|-------------|
| 21010441    | EL M RABET    | SAIDA          | 16.18                   | 12.45                  | 16.82       |
| 21010476    | BENCHINE      | ABDELILAH      | 10.46                   | 14.89                  | 15.78       |
| 21010482    | ARIB          | AYMANE         | 12.7                    | 12.16                  | 10.77       |
| 21010740    | LIO-EDDINE    | SAMIA          | 12.24                   | 15.48                  | 18.05       |
| 21011326    | ABOU-EL KASEM | KENZA          | 16.29                   | 13.94                  | 16.73       |
| 21011615    | TAOUIL        | FATIMAEZZAHRAE | 19.57                   | 14.69                  | 10.22       |
| 21011667    | SOUIDAK       | FIRDAOUS       | 16.25                   | 12.6                   | 13.64       |
| 21011724    | BOUNOUAR      | MOHAMMED       | 12.57                   | 18.28                  | 12.88       |
| 21011779    | BIGAGANE      | ABDELLAH       | 19.92                   | 18.3                   | 19.65       |
| 21011780    | KONTAR        | RIHAM          | 12.65                   | 19.37                  | 15.47       |
| 21011784    | NAYA          | TAHA           | 19.01                   | 12.84                  | 11.06       |
| 21011787    | EL- OTMANI    | SARA           | 14.88                   | 11.04                  | 19.98       |
| 21015477    | SYLLA         | NFALY          | 17.42                   | 19.33                  | 11.7        |
| 22012491    | EL HLLAFI     | BASMA          | 13.35                   | 18.61                  | 15.78       |
| 22012817    | BENMGUIRIDA   | ANAS           | 17.4                    | 15.09                  | 17.84       |

## Module : Bases de données avancées 1

| Code Apogée | Nom             | Prénom      | Optimisation et Qualité de Base de données | Administration et Sécurité des Bases de données | Note Finale |
|-------------|-----------------|-------------|--|---|-------------|
| 17004026    | EL YAZGHI       | MARYEM      | 12.27                                      | 16.69   | 10.03       |
| 19005680    | FAROUK          | ZAKARIA     | 19.69                                      | 15.13   | 13.04       |
| 19006658    | EL HARIRI       | KENZA       | 11.8                                       | 11.69   | 18.94       |
| 20000104    | LABJAKH         | SAFAE       | 15.42                                      | 10.25   | 19.88       |
| 20000927    | KORAICHI        | SALMANE     | 11.24                                      | 10.95   | 18.35       |
| 20001713    | TAIBI IMMIRANI  | AMAL        | 15.69                                      | 14.85   | 13.43       |
| 20001758    | AL AZAMI        | TAREK       | 17.76                                      | 11.66   | 15.57       |
| 20007042    | EL FERCHOUNI    | SOUKAYNA    | 13.11                                      | 10.22   | 14.17       |
| 20007695    | RANBOUK         | LAMIAE      | 12.97                                      | 15.38   | 17.86       |
| 20007896    | EL OUAHABI      | ANASS       | 14.25                                      | 15.39   | 13.28       |
| 20009973    | KABBOUR         | WISSAL      | 18.92                                      | 11.65   | 15.92       |
| 20011005    | BOUHNINE        | SAFAA       | 12.53                                      | 19.21   | 10.82       |
| 21002603    | BOUKER          | MOHAMMED    | 18.28                                      | 11.0  | 14.85       |
| 21009025    | BOUSSAID        | MERYEME     | 12.11                                      | 14.56   | 16.57       |
| 21009110    | BERKOUKT        | AMINE       | 11.23                                      | 10.08   | 17.7        |
| 21009157    | AZZMAN          | NORELIMANE  | 16.46                                      | 13.61   | 16.11       |
| 21009322    | SARSRI          | AYMANE      | 15.69                                      | 19.25   | 11.14       |
| 21009475    | DAHBI           | MOAD        | 18.16                                      | 14.55   | 17.78       |
| 21010011    | IKEN            | HANAE       | 19.03                                      | 13.13   | 13.51       |
| 21010231    | KEROUAN SALAH   | SOUMAIA     | 15.32                                      | 14.47   | 17.29       |
| 21010242    | STITOU          | ABIR        | 16.03                                      | 19.66   | 12.81       |
| 21010255    | TAJIDI          | MALIKA      | 14.71                                      | 15.13   | 11.87       |
| 21010261    | BOULERBAH       | YASSER      | 18.85                                      | 13.76   | 16.79       |
| 21010266    | AIDOUN          | IBTISSAM    | 12.37                                      | 18.82   | 19.62       |
| 21010272    | EL AOUD         | OUAAIL      | 16.33                                      | 12.15   | 19.48       |
| 21010274    | EL GARTI        | YASSINE     | 19.25                                      | 18.04   | 18.69       |
| 21010278    | ABDELOUAHAB     | SOUFIANE    | 11.23                                      | 19.89   | 17.33       |
| 21010287    | ALLAM           | ELARBI      | 16.54                                      | 10.06   | 14.24       |
| 21010291    | LOUAH           | MOHAMMED    | 14.31                                      | 13.38   | 13.29       |
| 21010299    | CHERKI          | HOUSSAM     | 16.21                                      | 12.75   | 16.36       |
| 21010306    | EL-BATTEOUI     | OUSSAMA     | 16.56                                      | 12.46   | 12.74       |
| 21010319    | EL GHAZI        | SILIA       | 11.65                                      | 15.68   | 11.94       |
| 21010320    | HADAD           | WAIL        | 14.04                                      | 15.86   | 13.46       |
| 21010322    | EL HARRAK       | MEHDI       | 12.43                                      | 10.23   | 15.48       |
| 21010324    | EL BAKALI       | MALAK       | 16.12                                      | 14.72   | 19.01       |
| 21010326    | CHAIBERRAS      | SOUHAIL     | 14.95                                      | 14.72   | 15.99       |
| 21010332    | OULAD MALEM     | AYOUB       | 18.75                                      | 19.09   | 11.44       |
| 21010334    | HILALY          | ANAS        | 16.92                                      | 14.27   | 11.29       |
| 21010348    | SOUHLI          | MALAK       | 16.87                                      | 17.48   | 11.02       |
| 21010356    | AZZOUZ          | CHAIMAE     | 18.94                                      | 13.92   | 16.87       |
| 21010358    | AHMYTTOU        | AYA         | 19.22                                      | 18.06   | 16.46       |
| 21010359    | HAJOUZ          | RIHAB       | 13.45                                      | 12.03   | 12.86       |
| 21010368    | JEBARI HASSANI  | ABDELHAK    | 12.76                                      | 13.69   | 18.11       |
| 21010379    | EL AIDI IDRISSI | ACHRAF      | 11.48                                      | 16.13   | 18.33       |
| 21010395    | ABBAD           | ABDELOUAHED | 15.92                                      | 13.05   | 14.19       |
| 21010401    | SAKHRI          | MOHAMED     | 13.4                                       | 16.3  | 15.33       |
| 21010403    | EL ADNANI       | EL MEHDI    | 16.28                                      | 14.01   | 16.89       |
| 21010409    | ZAHAR           | KENZA       | 15.13                                      | 15.61   | 10.88       |
| 21010411    | BEN IMRAN       | AHLAM       | 18.94                                      | 15.92   | 16.05       |



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| Code Apogée | Nom           | Prénom         | Optimisation et Qualité de Base de données | Administration et Sécurité des Bases de données | Note Finale |
|-------------|---------------|----------------|--|---|-------------|
| 21010423    | EL MATNI      | ADAM           | 13.68                                      | 16.15   | 12.81       |
| 21010439    | ECHCHRIKI     | IMAD           | 15.68                                      | 14.74   | 10.2        |
| 21010441    | EL M RABET    | SAIDA          | 17.04                                      | 19.85   | 12.99       |
| 21010476    | BENCHINE      | ABDELILAH      | 12.45                                      | 12.24   | 11.2        |
| 21010482    | ARIB          | AYMANE         | 13.28                                      | 15.51   | 12.85       |
| 21010740    | LIO-EDDINE    | SAMIA          | 17.62                                      | 11.7  | 11.35       |
| 21011326    | ABOU-EL KASEM | KENZA          | 11.68                                      | 12.26   | 11.12       |
| 21011615    | TAOUIL        | FATIMAEZZAHRAE | 15.86                                      | 18.29   | 15.72       |
| 21011667    | SOUIDAK       | FIRDAOUS       | 14.5                                       | 14.37   | 13.25       |
| 21011724    | BOUNOUAR      | MOHAMMED       | 13.0                                       | 13.26   | 10.24       |
| 21011779    | BIGAGANE      | ABDELLAH       | 18.82                                      | 11.47   | 11.2        |
| 21011780    | KONTAR        | RIHAM          | 15.81                                      | 10.84   | 19.19       |
| 21011784    | NAYA          | TAHA           | 13.26                                      | 14.46   | 10.86       |
| 21011787    | EL- OTMANI    | SARA           | 16.28                                      | 15.84   | 10.91       |
| 21015477    | SYLLA         | NFALY          | 15.04                                      | 12.72   | 16.84       |
| 22012491    | EL HLLAFI     | BASMA          | 14.28                                      | 12.75   | 17.33       |
| 22012817    | BENMGUIRIDA   | ANAS           | 19.03                                      | 15.29   | 17.44       |



## Module : Langue & communication

| Code Apogée | Nom             | Prénom      | Espagnol 2 & Allemand | Anglais professionnel | Note Finale |
|-------------|-----------------|-------------|-----------------------|-----------------------|-------------|
| 17004026    | EL YAZGHI       | MARYEM      | 18.63                 | 10.23                 | 15.08       |
| 19005680    | FAROUK          | ZAKARIA     | 17.24                 | 17.3                  | 17.32       |
| 19006658    | EL HARIRI       | KENZA       | 18.94                 | 16.84                 | 10.61       |
| 20000104    | LABJAKH         | SAFAE       | 15.46                 | 19.11                 | 19.39       |
| 20000927    | KORAICHI        | SALMANE     | 16.63                 | 17.15                 | 19.48       |
| 20001713    | TAIBI IMMRANI   | AMAL        | 19.15                 | 18.33                 | 17.53       |
| 20001758    | AL AZAMI        | TAREK       | 14.78                 | 16.53                 | 18.22       |
| 20007042    | EL FERCHOUNI    | SOUKAYNA    | 19.14                 | 17.15                 | 12.75       |
| 20007695    | RANBOUK         | LAMIAE      | 13.9                  | 13.5                  | 18.14       |
| 20007896    | EL OUAHABI      | ANASS       | 10.52                 | 15.86                 | 14.28       |
| 20009973    | KABBOUR         | WISSAL      | 13.45                 | 18.89                 | 14.23       |
| 20011005    | BOUHNINE        | SAFAA       | 12.76                 | 11.71                 | 12.4        |
| 21002603    | BOUKER          | MOHAMMED    | 15.52                 | 19.32                 | 18.54       |
| 21009025    | BOUSSAID        | MERYEME     | 14.72                 | 15.36                 | 18.82       |
| 21009110    | BERKOUKT        | AMINE       | 13.39                 | 10.72                 | 10.21       |
| 21009157    | AZZMAN          | NORELIMANE  | 12.36                 | 16.2                  | 14.07       |
| 21009322    | SARSRI          | AYMANE      | 19.7                  | 13.08                 | 13.89       |
| 21009475    | DAHBI           | MOAD        | 11.23                 | 17.4                  | 10.52       |
| 21010011    | IKEN            | HANAE       | 11.51                 | 12.47                 | 13.19       |
| 21010231    | KEROUAN SALAH   | SOUMAIA     | 13.82                 | 15.78                 | 11.46       |
| 21010242    | STITOU          | ABIR        | 16.76                 | 12.88                 | 12.0        |
| 21010255    | TAJIDI          | MALIKA      | 13.95                 | 10.25                 | 10.79       |
| 21010261    | BOULERBAH       | YASSER      | 13.72                 | 16.3                  | 18.62       |
| 21010266    | AIDOUN          | IBTISSAM    | 15.56                 | 10.13                 | 16.0        |
| 21010272    | EL AOUD         | OUAAIL      | 15.72                 | 16.84                 | 18.23       |
| 21010274    | EL GARTI        | YASSINE     | 18.97                 | 18.65                 | 13.68       |
| 21010278    | ABDELOUAHAB     | SOUFIANE    | 10.09                 | 12.76                 | 14.31       |
| 21010287    | ALLAM           | ELARBI      | 17.54                 | 14.42                 | 18.21       |
| 21010291    | LOUAH           | MOHAMMED    | 15.62                 | 18.66                 | 12.78       |
| 21010299    | CHERKI          | HOUSSAM     | 16.75                 | 13.61                 | 19.38       |
| 21010306    | EL-BATTEOUI     | OUSSAMA     | 17.96                 | 14.08                 | 12.22       |
| 21010319    | EL GHAZI        | SILIA       | 15.11                 | 14.6                  | 19.27       |
| 21010320    | HADAD           | WAIL        | 19.62                 | 14.05                 | 13.0        |
| 21010322    | EL HARRAK       | MEHDI       | 12.92                 | 19.09                 | 15.53       |
| 21010324    | EL BAKALI       | MALAK       | 14.63                 | 16.86                 | 14.18       |
| 21010326    | CHAIBERRAS      | SOUHAIL     | 19.63                 | 19.96                 | 13.37       |
| 21010332    | OULAD MAALEM    | AYOUB       | 14.89                 | 18.25                 | 16.53       |
| 21010334    | HILALY          | ANAS        | 12.49                 | 10.68                 | 11.5        |
| 21010348    | SOLHI           | MALAK       | 12.31                 | 14.34                 | 16.44       |
| 21010356    | AZZOUZ          | CHAIMAE     | 18.5                  | 17.11                 | 14.27       |
| 21010358    | AHMYTTOU        | AYA         | 17.8                  | 12.52                 | 10.53       |
| 21010359    | HAJOUZ          | RIHAB       | 10.52                 | 14.25                 | 16.62       |
| 21010368    | JEBARI HASSANI  | ABDELHAK    | 10.64                 | 11.89                 | 16.45       |
| 21010379    | EL AIDI IDRISSI | ACHRAF      | 13.39                 | 11.56                 | 17.05       |
| 21010395    | ABBAD           | ABDELOUAHED | 18.59                 | 13.27                 | 11.59       |
| 21010401    | SAKHRI          | MOHAMED     | 13.67                 | 11.75                 | 16.29       |
| 21010403    | EL ADNANI       | EL MEHDI    | 19.13                 | 13.87                 | 18.05       |
| 21010409    | ZAHAR           | KENZA       | 13.07                 | 10.04                 | 16.46       |
| 21010411    | BEN IMRAN       | AHLAM       | 15.84                 | 17.67                 | 12.63       |
| 21010423    | EL MATNI        | ADAM        | 15.07                 | 14.55                 | 10.79       |
| 21010439    | ECHCHRIKI       | IMAD        | 17.69                 | 17.73                 | 11.74       |



# Université Abdelmalek Essaâdi École Nationale des Sciences Appliquées Tanger



| Code Apogée | Nom           | Prénom         | Espagnol 2 & Allemand | Anglais professionnel | Note Finale |
|-------------|---------------|----------------|-----------------------|-----------------------|-------------|
| 21010441    | EL M RABET    | SAIDA          | 14.86                 | 17.52                 | 12.55       |
| 21010476    | BENCHINE      | ABDELILAH      | 17.47                 | 10.61                 | 18.8        |
| 21010482    | ARIB          | AYMANE         | 16.14                 | 18.61                 | 15.8        |
| 21010740    | LIO-EDDINE    | SAMIA          | 19.99                 | 12.12                 | 16.35       |
| 21011326    | ABOU-EL KASEM | KENZA          | 19.68                 | 17.04                 | 10.49       |
| 21011615    | TAOUIL        | FATIMAEZZAHRAE | 16.04                 | 19.09                 | 19.21       |
| 21011667    | SOUIDAK       | FIRDAOUS       | 18.06                 | 17.04                 | 16.24       |
| 21011724    | BOUNOUAR      | MOHAMMED       | 15.99                 | 17.69                 | 10.49       |
| 21011779    | BIGAGANE      | ABDELLAH       | 19.88                 | 15.91                 | 13.02       |
| 21011780    | KONTAR        | RIHAM          | 18.86                 | 16.02                 | 10.46       |
| 21011784    | NAYA          | TAHA           | 18.85                 | 15.1                  | 11.37       |
| 21011787    | EL- OTMANI    | SARA           | 13.55                 | 13.36                 | 16.25       |
| 21015477    | SYLLA         | NFALY          | 18.61                 | 12.01                 | 14.55       |
| 22012491    | EL HLLAFI     | BASMA          | 19.24                 | 14.31                 | 11.97       |
| 22012817    | BENMGUIRIDA   | ANAS           | 18.89                 | 11.36                 | 17.63       |

## Module : Modélisation orientée objet et IHM

| Code Apogée | Nom             | Prénom      | Modélisation orientée objet UML | IHM   | Note Finale |
|-------------|-----------------|-------------|---------------------------------|-------|-------------|
| 17004026    | EL YAZGHI       | MARYEM      | 11.09                           | 16.39 | 14.44       |
| 19005680    | FAROUK          | ZAKARIA     | 15.79                           | 14.65 | 19.46       |
| 19006658    | EL HARIRI       | KENZA       | 19.58                           | 17.57 | 13.68       |
| 20000104    | LABJAKH         | SAFAE       | 13.54                           | 19.1  | 18.79       |
| 20000927    | KORAICHI        | SALMANE     | 11.97                           | 18.18 | 18.3        |
| 20001713    | TAIBI IMMRANI   | AMAL        | 17.44                           | 15.81 | 15.59       |
| 20001758    | AL AZAMI        | TAREK       | 13.56                           | 12.06 | 18.41       |
| 20007042    | EL FERCHOUNI    | SOUKAYNA    | 11.0                            | 17.45 | 14.05       |
| 20007695    | RANBOUK         | LAMIAE      | 15.33                           | 11.56 | 11.3        |
| 20007896    | EL OUAHABI      | ANASS       | 17.74                           | 17.67 | 19.26       |
| 20009973    | KABBOUR         | WISSAL      | 18.82                           | 12.41 | 14.24       |
| 20011005    | BOUHNINE        | SAFAA       | 16.83                           | 11.75 | 16.38       |
| 21002603    | BOUKER          | MOHAMMED    | 16.25                           | 16.62 | 15.66       |
| 21009025    | BOUSSAID        | MERYEME     | 18.67                           | 12.42 | 17.47       |
| 21009110    | BERKOUKT        | AMINE       | 16.05                           | 10.63 | 14.77       |
| 21009157    | AZZMAN          | NORELIMANE  | 14.18                           | 15.53 | 18.67       |
| 21009322    | SARSRI          | AYMANE      | 13.42                           | 19.38 | 12.49       |
| 21009475    | DAHBI           | MOAD        | 15.86                           | 17.87 | 15.25       |
| 21010011    | IKEN            | HANAE       | 19.11                           | 13.88 | 16.56       |
| 21010231    | KEROUAN SALAH   | SOUMAIA     | 19.13                           | 16.58 | 18.88       |
| 21010242    | STITOU          | ABIR        | 11.39                           | 17.27 | 10.52       |
| 21010255    | TAJIDI          | MALIKA      | 10.99                           | 11.54 | 17.5        |
| 21010261    | BOULERBAH       | YASSER      | 16.9                            | 11.15 | 11.7        |
| 21010266    | AIDOUN          | IBTISSAM    | 15.98                           | 19.86 | 12.77       |
| 21010272    | EL AOUD         | OUAAIL      | 19.37                           | 11.69 | 19.9        |
| 21010274    | EL GARTI        | YASSINE     | 12.49                           | 10.53 | 12.69       |
| 21010278    | ABDELOUAHAB     | SOUFIANE    | 11.9                            | 13.4  | 14.96       |
| 21010287    | ALLAM           | ELARBI      | 19.08                           | 10.71 | 13.51       |
| 21010291    | LOUAH           | MOHAMMED    | 15.34                           | 16.59 | 12.7        |
| 21010299    | CHERKI          | HOUSSAM     | 11.59                           | 19.79 | 16.12       |
| 21010306    | EL-BATTEOUI     | OUSSAMA     | 16.9                            | 17.81 | 18.44       |
| 21010319    | EL GHAZI        | SILIA       | 15.36                           | 19.9  | 12.29       |
| 21010320    | HADAD           | WAIL        | 19.21                           | 14.84 | 12.51       |
| 21010322    | EL HARRAK       | MEHDI       | 15.68                           | 19.88 | 14.62       |
| 21010324    | EL BAKALI       | MALAK       | 11.84                           | 17.26 | 12.32       |
| 21010326    | CHAIBERRAS      | SOUHAIL     | 19.61                           | 12.03 | 10.67       |
| 21010332    | OULAD MAALEM    | AYOUB       | 16.45                           | 15.34 | 10.31       |
| 21010334    | HILALY          | ANAS        | 14.84                           | 16.37 | 12.33       |
| 21010348    | SOULHI          | MALAK       | 14.02                           | 16.43 | 17.42       |
| 21010356    | AZZOUZ          | CHAIMAE     | 16.27                           | 16.67 | 13.76       |
| 21010358    | AHMYTTOU        | AYA         | 12.48                           | 10.19 | 15.24       |
| 21010359    | HAJOUZ          | RIHAB       | 15.73                           | 19.74 | 12.14       |
| 21010368    | JEBARI HASSANI  | ABDELHAK    | 18.76                           | 18.83 | 14.04       |
| 21010379    | EL AIDI IDRISSI | ACHRAF      | 10.2                            | 14.05 | 19.66       |
| 21010395    | ABBAD           | ABDELOUAHED | 11.35                           | 10.2  | 13.52       |
| 21010401    | SAKHRI          | MOHAMED     | 18.29                           | 15.71 | 10.28       |
| 21010403    | EL ADNANI       | EL MEHDI    | 17.85                           | 11.51 | 18.38       |
| 21010409    | ZAHAR           | KENZA       | 11.73                           | 12.41 | 15.87       |
| 21010411    | BEN IMRAN       | AHLAM       | 15.39                           | 16.47 | 17.87       |
| 21010423    | EL MATNI        | ADAM        | 15.7                            | 14.11 | 10.73       |



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| Code Apogée | Nom           | Prénom         | Modélisation orientée objet UML | IHM   | Note Finale |
|-------------|---------------|----------------|---------------------------------|-------|-------------|
| 21010439    | ECHCHRIKI     | IMAD           | 14.64                           | 11.99 | 11.4        |
| 21010441    | EL M RABET    | SAIDA          | 17.47                           | 14.77 | 14.44       |
| 21010476    | BENCHINE      | ABDELILAH      | 11.36                           | 13.29 | 13.49       |
| 21010482    | ARIB          | AYMANE         | 19.15                           | 15.65 | 16.85       |
| 21010740    | LIO-EDDINE    | SAMIA          | 18.85                           | 13.45 | 17.77       |
| 21011326    | ABOU-EL KASEM | KENZA          | 13.13                           | 15.86 | 15.74       |
| 21011615    | TAOUIL        | FATIMAEZZAHRAË | 19.56                           | 10.1  | 10.37       |
| 21011667    | SOUIDAK       | FIRDAOUS       | 18.28                           | 14.29 | 17.58       |
| 21011724    | BOUNOUAR      | MOHAMMED       | 19.57                           | 11.59 | 15.59       |
| 21011779    | BIGAGANE      | ABDELLAH       | 17.8                            | 12.38 | 13.03       |
| 21011780    | KONTAR        | RIHAM          | 14.62                           | 14.35 | 17.3        |
| 21011784    | NAYA          | TAHA           | 16.73                           | 16.97 | 15.45       |
| 21011787    | EL- OTMANI    | SARA           | 16.12                           | 10.19 | 12.28       |
| 21015477    | SYLLA         | NFALY          | 10.53                           | 10.63 | 14.25       |
| 22012491    | EL HLLAFI     | BASMA          | 12.82                           | 13.18 | 13.33       |
| 22012817    | BENMGUIRIDA   | ANAS           | 18.61                           | 16.44 | 12.44       |





## Module : Programmation Orientée Objet & XML

| Code Apogée | Nom             | Prénom      | Programmation | XML   | Note Finale |
|-------------|-----------------|-------------|---------------|-------|-------------|
| 17004026    | EL YAZGHI       | MARYEM      | 17.72         | 10.68 | 11.42       |
| 19005680    | FAROUK          | ZAKARIA     | 14.08         | 16.01 | 17.34       |
| 19006658    | EL HARIRI       | KENZA       | 10.83         | 15.96 | 12.73       |
| 20000104    | LABJAKH         | SAFAE       | 15.81         | 12.15 | 18.28       |
| 20000927    | KORAICHI        | SALMANE     | 19.33         | 19.05 | 15.87       |
| 20001713    | TAIBI IMMRANI   | AMAL        | 18.81         | 13.15 | 12.23       |
| 20001758    | AL AZAMI        | TAREK       | 10.96         | 14.44 | 12.27       |
| 20007042    | EL FERCHOUNI    | SOUKAYNA    | 18.51         | 10.26 | 12.2        |
| 20007695    | RANBOUK         | LAMIAE      | 15.09         | 17.54 | 17.5        |
| 20007896    | EL OUAHABI      | ANASS       | 13.45         | 11.95 | 12.74       |
| 20009973    | KABBOUR         | WISSAL      | 18.06         | 17.12 | 19.46       |
| 20011005    | BOUHNINE        | SAFAA       | 12.37         | 12.04 | 16.73       |
| 21002603    | BOUKER          | MOHAMMED    | 16.97         | 19.7  | 12.98       |
| 21009025    | BOUSSAID        | MERYEME     | 14.25         | 15.47 | 18.51       |
| 21009110    | BERKOUKT        | AMINE       | 17.86         | 15.51 | 15.42       |
| 21009157    | AZZMAN          | NORELIMANE  | 11.95         | 16.71 | 17.46       |
| 21009322    | SARSRI          | AYMANE      | 11.47         | 19.52 | 18.12       |
| 21009475    | DAHBI           | MOAD        | 19.54         | 16.9  | 14.57       |
| 21010011    | IKEN            | HANAE       | 15.18         | 18.51 | 15.1        |
| 21010231    | KEROUAN SALAH   | SOUMAIA     | 12.01         | 16.9  | 10.68       |
| 21010242    | STITOU          | ABIR        | 12.29         | 18.84 | 16.45       |
| 21010255    | TAJIDI          | MALIKA      | 10.65         | 16.63 | 16.62       |
| 21010261    | BOULERBAH       | YASSER      | 16.51         | 15.4  | 14.36       |
| 21010266    | AIDOUN          | IBTISSAM    | 18.35         | 16.88 | 16.59       |
| 21010272    | EL AOUD         | OUAAIL      | 19.98         | 19.16 | 13.41       |
| 21010274    | EL GARTI        | YASSINE     | 11.56         | 13.46 | 14.04       |
| 21010278    | ABDELOUAHAB     | SOUFIANE    | 16.21         | 16.77 | 11.39       |
| 21010287    | ALLAM           | ELARBI      | 15.23         | 18.94 | 11.74       |
| 21010291    | LOUAH           | MOHAMMED    | 10.94         | 10.35 | 12.79       |
| 21010299    | CHERKI          | HOUSSAM     | 17.82         | 19.57 | 13.21       |
| 21010306    | EL-BATTEOUI     | OUSSAMA     | 17.96         | 13.45 | 10.57       |
| 21010319    | EL GHAZI        | SILIA       | 17.54         | 11.08 | 16.94       |
| 21010320    | HADAD           | WAIL        | 17.14         | 10.29 | 15.14       |
| 21010322    | EL HARRAK       | MEHDI       | 12.52         | 18.81 | 15.84       |
| 21010324    | EL BAKALI       | MALAK       | 17.8          | 11.41 | 18.19       |
| 21010326    | CHAIBERRAS      | SOUHAIL     | 14.94         | 19.71 | 18.04       |
| 21010332    | OULAD MAALEM    | AYOUB       | 19.37         | 12.09 | 18.51       |
| 21010334    | HILALY          | ANAS        | 15.96         | 19.51 | 15.7        |
| 21010348    | SOULHI          | MALAK       | 13.92         | 19.1  | 13.6        |
| 21010356    | AZZOUZ          | CHAIMAE     | 15.05         | 17.51 | 19.67       |
| 21010358    | AHMYTTOU        | AYA         | 15.84         | 19.75 | 11.15       |
| 21010359    | HAJOUZ          | RIHAB       | 18.93         | 13.32 | 15.63       |
| 21010368    | JEBARI HASSANI  | ABDELHAK    | 13.02         | 16.62 | 12.83       |
| 21010379    | EL AIDI IDRISSI | ACHRAF      | 15.58         | 19.67 | 14.55       |
| 21010395    | ABBAD           | ABDELOUAHED | 10.28         | 17.63 | 13.45       |
| 21010401    | SAKHRI          | MOHAMED     | 16.25         | 19.82 | 10.68       |
| 21010403    | EL ADNANI       | EL MEHDI    | 15.33         | 12.83 | 15.0        |
| 21010409    | ZAHAR           | KENZA       | 15.25         | 13.34 | 14.64       |
| 21010411    | BEN IMRAN       | AHLAM       | 17.3          | 13.11 | 19.92       |
| 21010423    | EL MATNI        | ADAM        | 16.82         | 11.24 | 19.74       |
| 21010439    | ECHCHRIKI       | IMAD        | 12.5          | 14.34 | 12.81       |



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| Code Apogée | Nom           | Prénom         | Programmation | XML   | Note Finale |
|-------------|---------------|----------------|---------------|-------|-------------|
| 21010441    | EL M RABET    | SAIDA          | 12.08         | 19.2  | 14.94       |
| 21010476    | BENCHINE      | ABDELILAH      | 18.87         | 12.48 | 11.48       |
| 21010482    | ARIB          | AYMANE         | 13.27         | 13.64 | 13.73       |
| 21010740    | LIO-EDDINE    | SAMIA          | 14.6          | 14.59 | 15.91       |
| 21011326    | ABOU-EL KASEM | KENZA          | 16.91         | 14.47 | 16.82       |
| 21011615    | TAOUIL        | FATIMAEZZAHRAE | 13.11         | 17.25 | 18.09       |
| 21011667    | SOUIDAK       | FIRDAOUS       | 14.81         | 15.92 | 19.06       |
| 21011724    | BOUNOUAR      | MOHAMMED       | 18.34         | 13.02 | 10.56       |
| 21011779    | BIGAGANE      | ABDELLAH       | 19.36         | 17.45 | 19.91       |
| 21011780    | KONTAR        | RIHAM          | 17.91         | 10.84 | 10.25       |
| 21011784    | NAYA          | TAHA           | 17.49         | 12.57 | 10.03       |
| 21011787    | EL- OTMANI    | SARA           | 13.03         | 15.4  | 13.95       |
| 21015477    | SYLLA         | NFALY          | 10.94         | 14.11 | 14.01       |
| 22012491    | EL HLLAFI     | BASMA          | 17.73         | 13.24 | 11.57       |
| 22012817    | BENMGUIRIDA   | ANAS           | 10.45         | 12.03 | 17.57       |



## Module : Qualité & Approche Processus

| Code Apogée | Nom             | Prénom      | Assurance Qualité | Méthodes Agiles | Note Finale |
|-------------|-----------------|-------------|-------------------|-----------------|-------------|
| 17004026    | EL YAZGHI       | MARYEM      | 10.23             | 17.33           | 17.62       |
| 19005680    | FAROUK          | ZAKARIA     | 10.57             | 15.11           | 13.52       |
| 19006658    | EL HARIRI       | KENZA       | 16.34             | 15.44           | 12.9        |
| 20000104    | LABJAKH         | SAFAE       | 17.0              | 11.64           | 13.85       |
| 20000927    | KORAICHI        | SALMANE     | 11.51             | 19.25           | 14.83       |
| 20001713    | TAIBI IMMRANI   | AMAL        | 12.23             | 13.78           | 11.67       |
| 20001758    | AL AZAMI        | TAREK       | 19.88             | 18.82           | 11.94       |
| 20007042    | EL FERCHOUNI    | SOUKAYNA    | 18.44             | 14.89           | 11.45       |
| 20007695    | RANBOUK         | LAMIAE      | 13.26             | 10.15           | 16.67       |
| 20007896    | EL OUAHABI      | ANASS       | 12.41             | 16.32           | 15.71       |
| 20009973    | KABBOUR         | WISSAL      | 17.79             | 13.73           | 16.01       |
| 20011005    | BOUHNINE        | SAFAA       | 11.66             | 13.03           | 19.38       |
| 21002603    | BOUKER          | MOHAMMED    | 15.55             | 17.21           | 19.8        |
| 21009025    | BOUSSAID        | MERYEME     | 14.79             | 10.22           | 15.92       |
| 21009110    | BERKOUKT        | AMINE       | 10.93             | 12.67           | 11.91       |
| 21009157    | AZZMAN          | NORELIMANE  | 19.84             | 15.65           | 18.68       |
| 21009322    | SARSRI          | AYMANE      | 12.99             | 11.38           | 10.12       |
| 21009475    | DAHBI           | MOAD        | 19.25             | 11.57           | 19.81       |
| 21010011    | IKEN            | HANAE       | 15.63             | 18.42           | 15.32       |
| 21010231    | KEROUAN SALAH   | SOUMAIA     | 18.64             | 19.71           | 11.48       |
| 21010242    | STITOU          | ABIR        | 13.67             | 16.62           | 12.86       |
| 21010255    | TAJIDI          | MALIKA      | 16.71             | 13.54           | 16.94       |
| 21010261    | BOULERBAH       | YASSER      | 15.38             | 14.48           | 10.39       |
| 21010266    | AIDOUN          | IBTISSAM    | 10.84             | 16.14           | 11.92       |
| 21010272    | EL AOUAD        | OUAAIL      | 15.07             | 13.14           | 19.64       |
| 21010274    | EL GARTI        | YASSINE     | 13.83             | 19.59           | 14.88       |
| 21010278    | ABDELOUAHAB     | SOUFIANE    | 11.25             | 15.01           | 18.09       |
| 21010287    | ALLAM           | ELARBI      | 13.61             | 17.32           | 14.96       |
| 21010291    | LOUAH           | MOHAMMED    | 16.93             | 11.21           | 17.74       |
| 21010299    | CHERKI          | HOUSSAM     | 10.47             | 13.18           | 12.35       |
| 21010306    | EL-BATTEQUI     | OUSSAMA     | 15.1              | 16.76           | 19.51       |
| 21010319    | EL GHAZI        | SILIA       | 16.66             | 10.07           | 11.83       |
| 21010320    | HADAD           | WAIL        | 12.13             | 18.2            | 16.86       |
| 21010322    | EL HARRAK       | MEHDI       | 15.42             | 15.01           | 15.5        |
| 21010324    | EL BAKALI       | MALAK       | 13.58             | 16.31           | 16.19       |
| 21010326    | CHAIBERRAS      | SOUHAIL     | 17.05             | 11.1            | 11.9        |
| 21010332    | OULAD MAALEM    | AYOUB       | 13.62             | 15.73           | 16.96       |
| 21010334    | HILALY          | ANAS        | 10.27             | 11.81           | 19.25       |
| 21010348    | SOLHI           | MALAK       | 13.87             | 11.41           | 17.66       |
| 21010356    | AZZOUZ          | CHAIMAE     | 19.73             | 11.56           | 10.75       |
| 21010358    | AHMYTTOU        | AYA         | 19.08             | 14.47           | 15.57       |
| 21010359    | HAJOUZ          | RIHAB       | 14.33             | 19.63           | 14.33       |
| 21010368    | JEBARI HASSANI  | ABDELHAK    | 14.98             | 18.2            | 15.0        |
| 21010379    | EL AIDI IDRISSI | ACHRAF      | 11.75             | 17.72           | 10.45       |
| 21010395    | ABBAD           | ABDELOUAHED | 19.0              | 13.69           | 13.16       |
| 21010401    | SAKHRI          | MOHAMED     | 16.16             | 10.49           | 15.75       |
| 21010403    | EL ADNANI       | EL MEHDI    | 12.21             | 15.87           | 14.02       |
| 21010409    | ZAHAR           | KENZA       | 12.36             | 14.94           | 11.17       |
| 21010411    | BEN IMRAN       | AHLAM       | 18.45             | 15.38           | 14.35       |
| 21010423    | EL MATNI        | ADAM        | 19.41             | 19.33           | 15.13       |
| 21010439    | ECHCHRIKI       | IMAD        | 11.87             | 17.2            | 18.96       |



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| Code Apogée | Nom           | Prénom         | Assurance Qualité | Méthodes Agiles | Note Finale |
|-------------|---------------|----------------|-------------------|-----------------|-------------|
| 21010441    | EL M RABET    | SAIDA          | 12.04             | 10.09           | 13.85       |
| 21010476    | BENCHINE      | ABDELILAH      | 19.97             | 10.23           | 17.23       |
| 21010482    | ARIB          | AYMANE         | 15.66             | 10.45           | 16.25       |
| 21010740    | LIO-EDDINE    | SAMIA          | 17.33             | 13.24           | 12.83       |
| 21011326    | ABOU-EL KASEM | KENZA          | 15.42             | 13.53           | 15.27       |
| 21011615    | TAOUIL        | FATIMAEZZAHRAE | 18.54             | 14.72           | 12.02       |
| 21011667    | SOUIDAK       | FIRDAOUS       | 10.71             | 17.02           | 17.01       |
| 21011724    | BOUNOUAR      | MOHAMMED       | 13.73             | 15.16           | 17.71       |
| 21011779    | BIGAGANE      | ABDELLAH       | 14.27             | 14.71           | 13.92       |
| 21011780    | KONTAR        | RIHAM          | 16.19             | 19.35           | 16.87       |
| 21011784    | NAYA          | TAHA           | 16.1              | 11.98           | 12.58       |
| 21011787    | EL- OTMANI    | SARA           | 12.51             | 19.33           | 15.82       |
| 21015477    | SYLLA         | NFALY          | 17.71             | 15.48           | 11.89       |
| 22012491    | EL HLLAFI     | BASMA          | 15.3              | 11.5            | 19.51       |
| 22012817    | BENMGUIRIDA   | ANAS           | 15.15             | 18.65           | 17.31       |