

Examen final de Maths 3 (30/03/2021)  
Durée 01h:30 mn

**Exercice 1 (2+3+2=7 points aussi Micro-interrogation) :**

1) Déterminer la primitive

$$I_1 = \int \frac{\cos 3x}{1 + \sin^2 3x} dx$$

2) Calculer l'intégrale triple suivante

$$I_2 = \iiint_V \frac{x^2}{\sqrt{y^2 + z^2}} dx dy dz$$

$$\text{où } V = \{(x, y, z) \in \mathbb{R}^3 : 2 \leq x \leq 3 \text{ et } y^2 + z^2 \leq 16\}$$

3) Etudier la nature de l'intégrale impropre suivante

$$I_3 = \int_3^{+\infty} \arctan(\sqrt{t^3 - 2}) \ln\left(1 + \frac{1}{(t-2)^{2021}}\right) dt$$

**Exercice 2 (3+3+3=09 points):**

a) Résoudre les équations différentielles suivantes

$$1) (2e^{3y} \cos 2x) dx + (3e^{3y} \sin 2x) dy = 0$$

$$2) y'' - 2y' + 2y = e^{2x}$$

b) Résoudre l'EDP suivante

$$x^2 y \frac{\partial f}{\partial x} + x \frac{\partial f}{\partial y} = 0$$

**Exercice 3 (04 points):**

$$\text{Sachant que } \frac{p+2}{p(p+4)(2p^2-5p+2)} = \frac{1}{4} \cdot \frac{1}{p} + \frac{1}{108} \cdot \frac{1}{(p+4)} - \frac{20}{27} \cdot \frac{1}{(2p-1)} + \frac{1}{9} \cdot \frac{1}{(p-2)}$$

Résoudre l'équation différentielle suivante en utilisant la transformation de Laplace

$$2x''(t) - 5x'(t) + 2x(t) = e^{-2t} \operatorname{ch} 2t, \quad \text{avec } x(0) = 0 \text{ et } x'(0) = 0.$$

**Indication:**

$$\begin{aligned} \mathcal{L}(e^{-at} f(t))_{(p)} &= \mathcal{L}(f(t))_{(p+a)}; \quad \mathcal{L}(\operatorname{ch}(at))_{(p)} = \frac{p}{p^2 - a^2}; \quad \mathcal{L}(\operatorname{sh}(at))_{(p)} = \frac{a}{p^2 - a^2}; \\ \mathcal{L}(t^n)_{(p)} &= \frac{n!}{p^{n+1}}; \quad \mathcal{L}(t^n e^{\alpha t})_{(p)} = \frac{n!}{(p-\alpha)^{n+1}}; \quad \mathcal{L}(e^{\alpha t})_{(p)} = \frac{1}{p-\alpha} \end{aligned}$$

EXO 1 Comme  $f(\pi-x) = \frac{\cos(3(\pi-x))}{1+\sin^2(3(\pi-x))} = \frac{-\cos 3x}{1+\sin^2 3x} = -f(x)$

d'après la règle de Bioche on pose:

$t = \sin 3x \Rightarrow dt = 3 \cos 3x dx$

donc  $\int \frac{\cos 3x}{1+\sin^2 3x} dx = \frac{1}{3} \int \frac{dt}{1+t^2} = \frac{1}{3} \arctan t + Cte = \frac{1}{3} \arctan(\sin 3x) + Cte$

2) Passons aux coordonnées cylindriques, on pose:

$\begin{cases} x = \rho \cos \theta \\ y = \rho \sin \theta \\ z = z \end{cases} \Rightarrow J = \rho \text{ et } V = \{(\rho, \theta, z) : 2 \leq \rho \leq 3, 0 \leq \theta \leq 2\pi, 0 \leq z \leq 4\}$

d'où:  $\iiint_V \frac{x^2}{\sqrt{y^2+z^2}} dx dy dz = \iiint_V \frac{\rho^2 \cos^2 \theta}{\rho} \rho d\rho d\theta dz$

$= \int_0^4 \int_0^{2\pi} \int_2^3 \rho^2 \cos^2 \theta d\rho d\theta dz = \frac{1}{3} \rho^3 \Big|_2^3 \int_0^{2\pi} \cos^2 \theta d\theta \int_0^4 dz = \frac{19}{3} \times 4 \times 2\pi = \frac{152}{3} \pi$

3) Comme  $\arctan \sqrt{t^3-2} \sim \frac{\pi}{2}$  (arctan  $\infty = \frac{\pi}{2}$ )

et  $\ln(1 + \frac{1}{(t-2)^{2021}}) \sim \frac{1}{(t-2)^{2021}}$   $\frac{1}{(t-2)^{2021}} \rightarrow 0$

donc  $\arctan \sqrt{t^3-2} \cdot \ln(1 + \frac{1}{(t-2)^{2021}}) \sim \frac{\pi}{2} \cdot \frac{1}{t^{2021}}$

intégrale de Riemann  $\int_3^{+\infty} \frac{dt}{t^{2021}}$  ( $\alpha = 2021 > 1$ ) d'après le critère de comparaison par équivalence  $\frac{1}{3}$  au

EXO 2 1)  $P = 2e^{3y} \cos 2x$  et  $Q = 3e^{3y} \sin 2x$

comme  $\frac{\partial P}{\partial y} = 6e^{3y} \cos 2x = \frac{\partial Q}{\partial x} \Rightarrow$  l'éq est exacte

$\Rightarrow \exists \varphi : \begin{cases} \frac{\partial \varphi}{\partial x} = P \\ \frac{\partial \varphi}{\partial y} = Q \end{cases} \Rightarrow \varphi(x,y) = e^{3y} \sin 2x + h(y)$

(I)  $\frac{\partial \varphi}{\partial y} = Q \Rightarrow \frac{\partial \varphi}{\partial y} = 3e^{3y} \sin 2x + h'(y) = 3e^{3y} \sin 2x$



$$R'(y) = 0 \Rightarrow R(y) = \text{cte} \text{ d'où: } \varphi(x, y) = e^{3y} \sin 2x + \text{cte} =$$

$$2) y'' + r^2 - 2r + 2 = 0 \Rightarrow \Delta = -4 < 0 \Rightarrow \sqrt{\Delta} = 2i$$

$$y_{\text{gR}} = e^x (C_1 \cos x + C_2 \sin x), C_1, C_2 \in \mathbb{R} \quad \begin{cases} r_{1,2} = 1 \pm i \end{cases}$$

$$y_{\text{p}}? \quad y_{\text{p}} = x e^{2ix} (P_0 \cos x + Q_0 \sin x) = a e^{2ix} \quad \begin{matrix} a+ib=2 \\ \text{n'est pas racine} \\ \text{de } \Delta \Rightarrow S=0 \end{matrix}$$

$$y'_{\text{p}} = 2a e^{2ix}, \quad y''_{\text{p}} = 4a e^{2ix}$$

$$y \text{ sol. particulière de l'EDO} \Rightarrow y''_{\text{p}} - 2y'_{\text{p}} + 2y_{\text{p}} = e^{2ix}$$

$$\Rightarrow 4a e^{2ix} - 2(2a e^{2ix}) + 2a e^{2ix} = e^{2ix} \Rightarrow 2a = 1 \Rightarrow a = \frac{1}{2}$$

$$\Rightarrow y_{\text{p}} = \frac{1}{2} e^{2ix} \text{ d'où } y_{\text{g}} = y_{\text{gR}} + y_{\text{p}} = e^x (C_1 \cos x + C_2 \sin x) + \frac{1}{2} e^{2ix}$$

$$b) \text{ Le système différentiel associé: } \frac{dx}{x^2 y} = \frac{dy}{y^2} \text{ et } df = 0$$

$$\Rightarrow f = C_1 \quad \frac{dx}{x} = y dy \Rightarrow \ln x = \frac{1}{2} y^2 + C_2 \Rightarrow C_2 = \ln x - \frac{1}{2} y^2$$

$$\text{d'où la solution: } \phi(C_1, C_2) = 0 \Rightarrow \phi(f, \ln x - \frac{1}{2} y^2) = 0 \quad \text{arbitr.}$$

$$\text{EXO: 3 } 2x''(t) - 5x'(t) + 2x(t) = e^{-2t} \cos 2t$$

$$\Rightarrow \mathcal{L}(2x''(t) - 5x'(t) + 2x(t))(p) = \mathcal{L}(e^{-2t} \cos 2t)(p)$$

$$\Rightarrow 2\mathcal{L}(x'') - 5\mathcal{L}(x') + 2\mathcal{L}(x) = \mathcal{L}(\cos 2t)(p+2) \quad \begin{matrix} \mathcal{L}(x(t))(p) = F(p) \\ \mathcal{L}(x'(t))(p) = pF - x(0) \\ \mathcal{L}(x''(t))(p) = p^2 F - px(0) - x'(0) \end{matrix}$$

$$\Rightarrow 2p^2 F - 5pF + 2F = \frac{p+2}{p(p+4)}$$

$$\Rightarrow F = \frac{p+2}{p(p+4)(2p^2 - 5p + 2)} = \frac{1}{4} \cdot \frac{1}{p} - \frac{1}{108} \cdot \frac{1}{p+4} - \frac{20}{27} \cdot \frac{1}{2p-1} + \frac{1}{9} \cdot \frac{1}{p-2}$$

$$\Rightarrow x(t) = \frac{1}{4} \mathcal{L}^{-1}\left(\frac{1}{p}\right) - \frac{1}{108} \mathcal{L}^{-1}\left(\frac{1}{p+4}\right) - \frac{20}{54} \mathcal{L}^{-1}\left(\frac{1}{p-\frac{1}{2}}\right) + \frac{1}{9} \mathcal{L}^{-1}\left(\frac{1}{p-2}\right)$$

$$\Rightarrow x(t) = \frac{1}{4} t^0 - \frac{1}{108} e^{-4t} - \frac{20}{54} e^{\frac{1}{2}t} + \frac{1}{9} e^{2t}$$

$$(II)$$

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Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Electromecanique

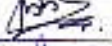
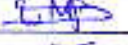
### PV DE NOTES

Matière: MATHS3

Groupe: Electromecanique 1

2020/2021

Enseignant: Rezaq Nozama

| N° | Nom, Prénoms           | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | ABAS, AKRAM            |    | 05,5                    |                         |             |
| 2  | ALBAHAISI, HAMZA       |    | 01                      |                         |             |
| 3  | BARHOUM, AIMEN         |    | 07,5                    |                         |             |
| 4  | BENZITOUNI, SEYFEDDINE |    | 03,50                   |                         |             |
| 5  | BOLLAHFA, AYYOUB       |    | 00,25                   |                         |             |
| 6  | GHERAIBIA, AKREM       |    | 04,5                    |                         |             |
| 7  | HAFALLAH, MOHAMMED     |    | 01,00                   |                         |             |
| 8  | HAZI, AYA              |    | 03,50                   |                         |             |
| 9  | KECHITI, AYMEN         |   | 06,5                    |                         |             |
| #  | KLAIAIA, CHOUAIB       |  | 00,00                   |                         |             |
| #  | MERAH, AYMEN           |  | 00,25                   |                         |             |
| #  | NTHIGA, JOB MUNENE     |  | 04,00                   |                         |             |
| #  | SAHI, GHOLEM-ELLAH     |  | 02,00                   |                         |             |
| #  | ZEMITI, HAITEM         |  | 08,00                   |                         |             |

Date et signature

11/04/2021





Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Electromecanique

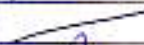
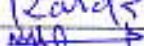
### PV DE NOTES

Matière: ...MATHS 3.....

Groupe: Electromecanique2

2020/2021

Enseignant: Rezaoui Nossrine

| N  | Nom, Prénoms           | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | ACHOURI, MOHAMMED      |    | 17,25                   |                         |             |
| 2  | ATTALIA, AYOUB         |    |                         |                         |             |
| 3  | BENMARS, ALA EDDINE    |    |                         |                         |             |
| 4  | BOUANIK, MESSAOUD      |    | 00,00                   |                         |             |
| 5  | BOULEKHRAS, ZAKARIA    |    | 02,25                   |                         |             |
| 6  | BOUNEB, BILAL          |    | 00,50                   |                         |             |
| 7  | DERRADJI, BAHIA EDDINE |    | 01,00                   |                         |             |
| 8  | DRIDI, MOSTAPHA        |    | 07,00                   |                         |             |
| 9  | KAIDOUCHI, NOUR EL     |    | 05,50                   |                         |             |
| 10 | KHALFALLAH, HAITEM     |   | 06,50                   |                         |             |
| 11 | LAHMARI, AYMEN         |  | 00,50                   |                         |             |
| 12 | MABROUKI, MOHAMED      |  | 01,25                   |                         |             |
| 13 | MEZACHE, AHMED RAMI    |  | 07,00                   |                         |             |
| 14 | YAKHLEF, HAYTHEM       |  | 00,00                   |                         |             |

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Année d'étude: 2L-ST

Filière: Electromecanique

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: MATHS 3  
Enseignant: Rezgui Nohima

2020/2021

| N° | Nom, Prénoms |               | Signature                                                                         | Note avant consultation | Note après consultation | observation |
|----|--------------|---------------|-----------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | BELHIRECHE   | BOUTHEYNA     |  | 02,25                   |                         |             |
| 2  | BOUDOUDA     | MOHAMMED ANIS |  | 00,00                   |                         |             |
| 3  | MADI         | AMDJED        |  | 03,00                   |                         |             |
| 4  | SELLAOUI     | MOHAMMED ALI  |  | 04,25                   |                         |             |

5 Benarbia Ayman  02,00

6 Bouzedda ISSAM 

11/04/2021  


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Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière:Hydraulique

### PV DE NOTES

Matière: ..... *maths 3* .....

Enseignant: *Zenkrafi* .....

Groupe:Hydraulique

2020/2021

| N° | Nom,Prénoms            | Signature          | Note avant<br>consultation | Note apres<br>consultation | observation |
|----|------------------------|--------------------|----------------------------|----------------------------|-------------|
| 1  | BOUSSATHA, MOHAMED EL. |                    |                            |                            |             |
| 2  | DAH, SEDIGH            | <i>[Signature]</i> | 13,75                      |                            |             |
| 3  | DJABALLAH, KAWTHER     | <i>[Signature]</i> | 01,75                      |                            |             |
| 4  | EL HADJI MAMOUDA       | <i>[Signature]</i> | 13,00                      |                            |             |
| 5  | GHERAIBIA, ABDERAHMANE | <i>[Signature]</i> | 04,25                      |                            |             |
| 6  | HOUAMRIA, ABDALLAH     | <i>[Signature]</i> | 00,00                      |                            |             |
| 7  | KHALEAOUL, NADA        | <i>[Signature]</i> | 00,00                      |                            |             |
| 8  | KIALA, WASSIM          | <i>[Signature]</i> | 00,75                      |                            |             |
| 9  | OUAIFIA, ABDERREZAK    | <i>[Signature]</i> | 00,25                      |                            |             |
| 10 | REZAIGUIA, AHMED ABD   | <i>[Signature]</i> | 00,00                      |                            |             |
| 11 | SAADAOU, MOHAMMED      | <i>[Signature]</i> | 00,00                      |                            |             |
| 12 | SELATNIA, WAIL         | <i>[Signature]</i> | 00,00                      |                            |             |
| 13 | TOUAHRI, HANANE        | <i>[Signature]</i> | 00,75                      |                            |             |
| 14 | ZAÏMEN, HADDA          | <i>[Signature]</i> | 01,00                      |                            |             |
| 15 | ZIZOUL, ISLAM          | <i>[Signature]</i> | 00,25                      |                            |             |

Ab B

Date et signature

05/04/2021

*[Signature]*

Diplôme: Licence LMD  
Domaine: Sciences et Technologies  
Année d'étude: 2L-ST

Filière: Hydraulique

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: ..... *maths 3* .....  
Enseignant: *Zenkoufi* .....

2020/2021

| N° | Nom, Prénoms |                     | Signature | Note avant consultation | Note après consultation | observation |
|----|--------------|---------------------|-----------|-------------------------|-------------------------|-------------|
| 1  | AMARA        | MOHAMED ABD ERRAHIM |           |                         |                         |             |
| 2  | HABILES      | HICHEM              |           |                         |                         |             |
| 3  | KAMOUCHE     | Adim                |           |                         |                         |             |

*Bessioh salah edine*  
*Zenati meuz*

*[Signature]*  
*cf.*

*00,00*  
*00,50*

*05/04/2021*

*[Signature]*



Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Génie Mécanique

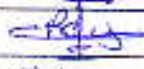
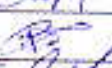
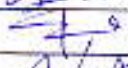
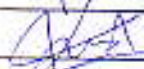
### PV DE NOTES

Matière: ..... maths 3 .....

Enseignant: Rezaoui Nashima

Groupe: Génie Mécanique

2020/2021

| N° | Nom, Prénoms        | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|---------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | AISSAOUI, BADIS     |    | 00,25                   |                         |             |
| 2  | ALAGOUNE, RAYANE    |    | 06,50                   |                         |             |
| 3  | ARBA, MOUATASSIM    |    | 00,75                   |                         |             |
| 4  | BOUMZAOUET, FADI    |    | 03,00                   |                         |             |
| 5  | BOURBOUNA, MADJED   |    | 03,00                   |                         |             |
| 6  | CHETTIBI, AMIR      |    | 00,00                   |                         |             |
| 7  | DAIF, SAMIR         |    | 00,50                   |                         |             |
| 8  | DJELAIBIA, MOUNIR   |   | 00,50                   |                         |             |
| 9  | FRIANE, MOHAMMED EL |  | 05,50                   |                         |             |
| 10 | GOUASMI, IHEB       |  | 00,50                   |                         |             |
| 11 | KERDOUSSI, TOUFIQ   |  | 00,00                   |                         |             |
| 12 | KHATTAL, ALA EDDINE |  | 01,50                   |                         |             |
| 13 | MEGHERBI, NAOUFEL   |  |                         |                         |             |
| 14 | MENAI, ABDELKARIM   |  | 14,00                   |                         |             |
| 15 | SID, OUSAMA         |  | 06,00                   |                         |             |
| 16 | SOUCHA, SAOUSSEN    |  | 06,00                   |                         |             |
| 17 | TEBBAL, RANIYA      |  | 06,25                   |                         |             |
| 18 | ZAHI, BAH EDDINE    |  | 06,00                   |                         |             |

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Filière: Génie Mécanique

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: ...*maths*.....  
Enseignant: *Rezgu...Nassima*

2020/2021

| N° | Nom, Prénoms |                      | Signature | Note avant consultation | Note après consultation | observation |
|----|--------------|----------------------|-----------|-------------------------|-------------------------|-------------|
| 1  | DIAHMI       | MOHAMED FAKHR EDDINE |           |                         |                         |             |
| 2  | FREINE       | RANDA                |           |                         |                         |             |
| 3  | MADANI       | AICHA                |           |                         |                         |             |
| 4  | NAMOUNE      | YEHYA                |           |                         |                         |             |
| 5  | ZEREG        | HIBA                 |           |                         |                         |             |

6. Bareche *yahia* *[signature]* 02,50

11/04/2021  
*[signature]*



Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Electrotechnique

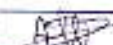
### PV DE NOTES

Matière: ...MAT. H. 3.....

Enseignant: R. Mellal

Groupe: Electrotechnique

2020/2021

| N° | Nom, Prénoms               | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|----------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | ALLALI, MOHAMED BIRMANE    |    | 00,00                   |                         |             |
| 2  | AMYAR, IBTISSAM            |    | 05,00                   |                         |             |
| 3  | ATTAILIA, KHAOULA          |    | 05,25                   |                         |             |
| 4  | AYOUBA TANKO, SANISSI      |    | 08,75                   |                         |             |
| 5  | BAARA, ANIS MOHAMMED       |    | 00,25                   |                         |             |
| 6  | BATAH, HAMZA               |    | 02,75                   |                         |             |
| 7  | BELABED, SEIF              |    | 02,50                   |                         |             |
| 8  | BOUCHEHED, AMIN            |                                                                                     | <del>00,00</del>        |                         |             |
| 9  | BOUREBIA, BADRE EDDINE     |    | 00,00                   |                         |             |
| 10 | CHOUBI, MALAK              |    | 07,25                   |                         |             |
| 11 | DOUAKHA, OUSSAMA           |   | 04,50                   |                         |             |
| 12 | HACHACHINIA, IKRAM         |  | 01,50                   |                         |             |
| 13 | HAMDI, HOUSSEM             |  | 00,00                   |                         |             |
| 14 | KADI, NORCINE              |  | 03,00                   |                         |             |
| 15 | KOUARTA, OUAIL             |  | 09,50                   |                         |             |
| 16 | LAMARI, KAMEL              |  | 01,50                   |                         |             |
| 17 | MESSAADIA, LABIB           |  | 03,25                   |                         |             |
| 18 | MILI, MOHCENE              |  | 00,50                   |                         |             |
| 19 | SAHRAOUI, RANDA            |  | 01,00                   |                         |             |
| 20 | SELLAOUI, BILEL            |  | 01,00                   |                         |             |
| 21 | TAILEB, ACHREF ABDELKADOUS |  | 04,75                   |                         |             |
| 22 | YAHMEDI, HEYTHEM           |  | 00,00                   |                         |             |

Date et signature

8/4/2021



Diplôme: Licence LMD  
 Domaine: Sciences et Technologies  
 Année d'étude: 2L-ST

Filière: Electrotechnique

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: MATH3  
 Enseignant: R. Mellal

2020/2021

| N° | Nom, Prénoms        |                       | Signature    | Note avant consultation | Note après consultation | observation |
|----|---------------------|-----------------------|--------------|-------------------------|-------------------------|-------------|
| 1  | AMAIRIA             | HIBA                  |              | <del>X</del>            |                         |             |
| 2  | • AMIRA             | ZAKARIA               | <u>A. Z.</u> | 00,00                   |                         |             |
| 3  | • ARKI              | IMED EDDINE           | <u>I. E.</u> | 01,50                   |                         |             |
| 4  | • BELABED           | SEIF                  | <u>S.</u>    | 02,50                   |                         |             |
| 5  | • BENMABROUK        | SAFA                  | <u>S.</u>    | 01,00                   |                         |             |
| 6  | BETIHI              | Heythem               |              | <del>X</del>            |                         |             |
| 7  | FETHI ISMAIL BAROUD | Ahmed                 |              | <del>X</del>            |                         |             |
| 8  | HADDADA             | Selma                 |              | <del>X</del>            |                         |             |
| 9  | HAMOUD              | Abdelhak              | <u>A. H.</u> | 01,00                   |                         |             |
| 10 | • HEBBACHI          | RANDA                 | <u>R.</u>    | 02,00                   |                         |             |
| 11 | HIMOURA             | CHEMSS EDDINE         |              | <del>X</del>            |                         |             |
| 12 | • LEGRINI           | AIDA                  | <u>A.</u>    | 00,75                   |                         |             |
| 13 | • MESSIOUD          | Ayoub med imed eddine | <u>A. M.</u> | 00,75                   |                         |             |
| 14 | • TOURECHE          | ABDELHEQ              | <u>A. T.</u> | 00,75                   |                         |             |

• Shamiq

Shadi

Ayoub 00,25

8/4/2021

Mellal



Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Télécommunication

### PV DE NOTES

Matière: Maths 3  
Enseignant: R. Mella

Groupe: TLC1

2020/2021

| N° | Nom, Prénoms           | Signature | Note avant consultation | Note après consultation | observation |
|----|------------------------|-----------|-------------------------|-------------------------|-------------|
| 1  | ABU AYESH, MUATH       |           | 13,50                   |                         |             |
| 2  | AOUISSI, CHARAF EDDINE |           | 07,00                   |                         |             |
| 3  | BAILOUL, NOR EL MALAK  |           | 03,50                   |                         |             |
| 4  | BEGHOUR, SAMIRA        |           | 04,00                   |                         |             |
| 5  | BENTEBOULA, ABDALLAH   |           | 09,00                   |                         |             |
| 6  | BERDOUDI, SOFIANE      |           | 00,50                   |                         |             |
| 7  | CHABANE, KHADIDJA      |           | 09,00                   |                         |             |
| 8  | DAIF, SARA             |           | 12,00                   |                         |             |
| 9  | DERGHOUM, SOUFYANE     |           | 06,00                   |                         |             |
| 10 | FERKOUS, DHIYA EDDINE  |           | 01,00                   |                         |             |
| 11 | HAMAMI, BASSIM         |           | 00,50                   |                         |             |
| 12 | HAMBLI, HOUSSEM        |           |                         |                         |             |
| 13 | HAMMOUCHI, IKRAM       |           | 13,25                   |                         |             |
| 14 | HIMEUR, KHAWLA         |           | 03,00                   |                         |             |
| 15 | KIRATI, SOUMEYA        |           |                         |                         |             |
| 16 | LAYADA, AHMED NOUR EL  |           | 01,25                   |                         |             |
| 17 | MEDJADEL, ROUAIDA      |           |                         |                         |             |
| 18 | MEROUR, RIM AMANI      |           | 05,25                   |                         |             |
| 19 | NAILI, CHEMSEDDINE     |           | 04,75                   |                         |             |
| 20 | OULD KHALED, ABDEREZAK |           | 07,25                   |                         |             |
| 21 | SELMi, DJIHANE         |           | 11,75                   |                         |             |
| 22 | YOUSFI, AYOUB          |           | 02,75                   |                         |             |

Date et signature

8/4/2021



Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Télécommunication

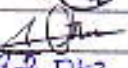
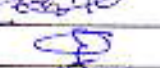
### PV DE NOTES

Matière: MATHS 3

Groupe: TLC2

2020/2021

Enseignant: .....

| N° | Nom, Prénoms           | Signature                                                                           | Note avant consultation | Note après consultation | Observation |
|----|------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | ADJEROUD, ROUMAÏSSA    |    | 15,5                    |                         |             |
| 2  | ATAMENIA, HASNI        |    | 01,25                   |                         |             |
| 3  | BOUNEFLA, NASREDDINE   |    | 00,00                   |                         |             |
| 4  | CHIKHAOUL, SEYF EDDINE |    | 07,50                   |                         |             |
| 5  | GUELMI, OMAYMA         |   | 16,00                   |                         |             |
| 6  | GUERFA, BESMA          |  | 04,00                   |                         |             |
| 7  | GUERNINE, CHEHD        |  | 01,00                   |                         |             |
| 8  | HAMEL, MOUHAMMED       |  |                         |                         |             |
| 9  | HAMOUCHE, MOUHAMMED    |  | 00,00                   |                         |             |
| 10 | KHELIL, DORRA INES     |  | 05,00                   |                         |             |
| 11 | LAHOURECHE, YOUSSEF    |  | 05,00                   |                         |             |
| 12 | MENQJEL, INSAF         |  | 05,50                   |                         |             |
| 13 | MERZOUGUI, CHEYMA      |  | 06,50                   |                         |             |
| 14 | MOUARCIA, SAMEH        |  | 14,00                   |                         |             |
| 15 | MOUMENI, YAHIA         |  | 04,50                   |                         |             |
| 16 | NEBTI, SELMA           |  | 14,00                   |                         |             |
| 17 | OTMANIA, NEDJLA        |  | 06,25                   |                         |             |
| 18 | REDJAIMIA, ZAKARYA     |  | 02,00                   |                         |             |
| 19 | SELLAOUI, MOHAMMED     |  | 00,00                   |                         |             |
| 20 | TOUAHRI, AKRAM ILYAS   |  | 05,00                   |                         |             |
| 21 | ZERDOUDI, KHOULOUD     |  | 07,00                   |                         |             |

Date et signature

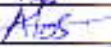
Diplôme: Licence LMD  
 Domaine: Sciences et Technologies  
 Année d'étude: 2L-ST

Filière: Télécommunication

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: ...Maths 3.....  
 Enseignant: R. Mella.....

2020/2021

| N° | Nom, Prénoms     |                 | Signature                                                                           | Note avant consultation                                                             | Note après consultation | observation |
|----|------------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------|
| 1  | AMAIRIA          | Hemza abdenmour |    |  |                         |             |
| 2  | BOUDOUR          | WISSAM          |    |                                                                                     |                         |             |
| 3  | BOUKHAROUBA      | RADHIA          |    |                                                                                     |                         |             |
| 4  | CHERIFI          | CHAMSEDDINE     |    |                                                                                     |                         |             |
| 5  | DIEBABLA         | AHLEM           |    |                                                                                     |                         |             |
| 6  | EL HACEN AHMEDOU | Ahmed           |    |                                                                                     |                         |             |
| 7  | LOUCIF           | ZAKARIA WASSIM  |   |                                                                                     |                         |             |
| 8  | MAHMOUDI         | LAMYA           |  |                                                                                     |                         |             |
| 9  | SERIDI           | ANIS            |  |                                                                                     |                         |             |
| 10 | SERIDI           | Soumeia         |  |                                                                                     |                         |             |
| 11 | TRAIKIA          | ISLAM           |  | 04,00                                                                               |                         |             |
| 12 | ZEDADRA          | HOUSSAM EDDINE  |  |                                                                                     |                         |             |

8/4/2021  


Diplôme: Licence LMD  
Domaine: Sciences et Technologies  
Année d'étude: 21-ST

Filière: Télécommunication

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: MATHS 3  
Enseignant: .....

2020/2021

| N° | Nom, Prénoms     |                 | Signature                                                                         | Note avant consultation | Note après consultation | observation |
|----|------------------|-----------------|-----------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | AMAIRIA          | Hemza abdenmour |                                                                                   |                         |                         |             |
| 2  | BOUDOUR          | WISSAM          |  | 00,50                   |                         |             |
| 3  | BOUKHAROUBA      | RADHIA          |                                                                                   |                         |                         |             |
| 4  | CHERIFI          | CHAMSEDDINE     |                                                                                   |                         |                         |             |
| 5  | DJEBABLA         | AHLEM           |  | 0.4,50                  |                         |             |
| 6  | EL HACEN AHMEDOU | Ahmed           |                                                                                   |                         |                         |             |
| 7  | LOUCIF           | ZAKARIA WASSIM  |                                                                                   |                         |                         |             |
| 8  | MAHMOUDI         | LAMYA           |                                                                                   |                         |                         |             |
| 9  | SERIDI           | ANIS            |                                                                                   |                         |                         |             |
| 10 | SERIDI           | Soumeiya        |                                                                                   |                         |                         |             |
| 11 | TRAÏKIA          | ISLAM           |                                                                                   |                         |                         |             |
| 12 | ZEDADRA          | HOUSSAM EDDINE  |                                                                                   |                         |                         |             |

Me Redjet Dj Rane  00,75  
A-b-dehounen mahammed oussama  00



Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Electronique

### PV DE NOTES

Matière: ..... Maths 3 .....

Enseignant: Rezgou Nossima

Groupe: Electronique

2020/2021

| N° | Nom, Prénoms            | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|-------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | BENNACER ABDELMALIK     |    | 03,75                   |                         |             |
| 2  | BOUALLOUCHE, MOHAMED    |    | 00,50                   |                         |             |
| 3  | BOUBERDAA,              |    | 07,00                   |                         |             |
| 4  | BOUFERNANA MOUSAAB      |    | 20,50                   |                         |             |
| 5  | BOURAZI EL MEHDI        |    | 15,25                   |                         |             |
| 6  | BOUROUGAA SEID AHMED    |   | 00,50                   |                         |             |
| 7  | CHEBATA, MOHAMMED       |  | 06,50                   |                         |             |
| 8  | CHERAITIA, RAMI         |  | 06,50                   |                         |             |
| 9  | GHARSI AHMED            |  | 10,75                   |                         |             |
| 10 | MADI MOHAMMED SAID      |  | 03,75                   |                         |             |
| 11 | MEKHANCHA ABDERAOUF     |  | 02,50                   |                         |             |
| 12 | RIGHI AHMED             |  | 03,00                   |                         |             |
| 13 | SAIDANI, CHEMS EDDINE   |  | 03,00                   |                         |             |
| 14 | SISSAID, OUSSAMA        |  |                         |                         |             |
| 15 | TAIBI, AMEUR ALA EDDINE |  | 00,00                   |                         |             |
| 16 | TEBANI, BESSAM          |  | 01,25                   |                         |             |
| 17 | YAHIMDI, NOUR EL ISLAM  |  | 06,50                   |                         |             |
| 18 | YOUCEF, MOHAMMED EL     |  | 11,50                   |                         |             |
| 19 | ZITOUNI, SALAH EDDINE   |  | 01,00                   |                         |             |

Date et signature

11/04/2021



Diplôme: Licence LMD  
Domaine: Sciences et Technologies  
Année d'étude: 2L-ST

Filière: Electronique

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: .....

2020/2021

Enseignant: .....

| N° | Nom,Prénoms |                    | Signature | Note avant<br>consultation | Note apres<br>consultation | observation |
|----|-------------|--------------------|-----------|----------------------------|----------------------------|-------------|
| 1  | BAAZIZ      | Mohammed abdenmour |           |                            |                            |             |
| 2  | BOUACHERIA  | MED FAKHR ELISLEM  |           |                            |                            |             |
| 3  | BOUDEFFA    | AYMEN              |           |                            |                            |             |
| 4  | BOUHREM     | Aymen              |           |                            |                            |             |
| 5  | CHEMLEL     | ACHRAF MOUAD       |           |                            |                            |             |
| 6  | KAIDI       | SAFA               |           |                            |                            |             |
| 7  | NAMOUNE     | KHAWLA             |           |                            |                            |             |
| 8  | NEDJAI      | ALLA EDDINE        |           |                            |                            |             |
| 9  | SLIMANI     | AMANI              |           |                            |                            |             |

Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Travaux Public

### PV DE NOTES

Matière: ..... Maths 3 .....

Groupe: TP

2020/2021

Enseignant: Zen kefir

| N° | Nom, Prénoms           | Signature | Note avant consultation | Note après consultation | observation |
|----|------------------------|-----------|-------------------------|-------------------------|-------------|
| 1  | ABASSI, MOHAMED TAHAR  |           | 00,00                   |                         |             |
| 2  | ALLELE, ASSAAD         |           | 00,25                   |                         |             |
| 3  | ANNABLANOUAR           |           | 01,25                   |                         |             |
| 4  | AOUAÏSSIA, AHLEME      |           | 00,50                   |                         |             |
| 5  | ATTAFL, AYMEN          |           | 00,00                   |                         |             |
| 6  | BEN SAKUR, ZINEDDINE   |           | 01,50                   |                         |             |
| 7  | BOUACHA, ABDERRAZAQ    |           | 00,50                   |                         |             |
| 8  | BOUCHAIR, ADALA        |           | 01,50                   |                         |             |
| 9  | CHHAOUÏ, KARIM         |           | 00,75                   |                         |             |
| 10 | DIF, MOHAMMED SALAH    |           | 00,50                   |                         |             |
| 11 | FARDJALLAH, MOUNDHER   |           | 00,50                   |                         |             |
| 12 | KHADRAOUI, NASSIM      |           | 02,75                   |                         |             |
| 13 | KHETTABI, FATIMA ZAHRA |           | 02,75                   |                         |             |
| 14 | KOUDRI, YOUSSEF        |           | 01,00                   |                         |             |
| 15 | OUARTSI, ZAHRA         |           | 05,00                   |                         |             |
| 16 | REMMACHE, MOHAMAD      |           | 00,00                   |                         |             |
| 17 | YAKHLEF, MOHAMMED      |           | 00,00                   |                         |             |
| 18 | ZIAYA, MAHDI           |           | 00,50                   |                         |             |

19)

Date et signature

05/09/2021



Diplôme: Licence LMD  
Domaine: Sciences et Technologies  
Année d'étude: 2L-ST

Filière: Travaux Public

**PV DE NOTES**  
Etudiants ENDETTES

Matière: ..... *Math 3* .....  
Enseignant: *Zenkouf* .....

2020/2021

| N° | Nom, Prénoms |       | Signature          | Note avant consultation | Note après consultation | observation |
|----|--------------|-------|--------------------|-------------------------|-------------------------|-------------|
| 1  | AOUABDI      | Besma |                    |                         |                         |             |
| 2  | BOUHALIT     | AHMED |                    |                         |                         |             |
| 3  | NEZAZRA      | Ammar | <i>[Signature]</i> | 01,25                   |                         |             |

4) Mekharem Rachid *[Signature]* 01,00

5) Sellami Dounia *[Signature]* 00,50

6) Kezagui Borhan Dinnelou *[Signature]* 01,00

7) Ben Saci Alla Ahdine *[Signature]* 00,00

8) Cheriet Bessam *[Signature]* 00,00

9) Chouini Mohammed *[Signature]* 00,25

10) Boudouaour Fares *[Signature]* 00,25

05/09/2021

*[Signature]*

Diplôme: Licence  
 Domaine: Sciences et Technologies  
 Année d'étude:  
 Filière: Automatique

### PV DE NOTES

Matière: maths3

Groupe: Automatique

2020/2021

Enseignant: Zenkoufi

| N° | Nom, Prénoms            | Signature | Note avant consultation | Note après consultation | observation |
|----|-------------------------|-----------|-------------------------|-------------------------|-------------|
| 1  | AIDOU, MOHAMMED CHIHAB  |           | 04,75                   |                         |             |
| 2  | ALLOUL, HOCINE          |           | 04,75                   |                         |             |
| 3  | BAHLOUL, MOHAMED CHERIF |           | 00,50                   |                         |             |
| 4  | BOUDECHICHE, HEYTHEM    |           | 00,50                   |                         |             |
| 5  | BOUHALI, MOHAMMED AMINE |           | 03,25                   |                         |             |
| 6  | BOUKARAA, YASSINE       |           | 07,50                   |                         |             |
| 7  | CHAABNIA, MOHAMED ISLEM |           | 00,00                   |                         |             |
| 8  | HABBECH, ABDELAZIZ      |           | 04,75                   |                         |             |
| 9  | HENNI, ACHREF           |           | 04,25                   |                         |             |
| 10 | HOUMEUR, ABIR           |           | 00,25                   |                         |             |
| 11 | KHATTIB, AHMED          |           | 02,75                   |                         |             |
| 12 | KHENICHE, KHELIFA       |           | 09,00                   |                         |             |
| 13 | LIMANE, YEHIA ILYES     |           | 04,00                   |                         |             |
| 14 | MANSOURI, FEKHRELISLAM  |           | 08,25                   |                         |             |
| 15 | MEDJELEKH, MOHAMED      |           | 03,50                   |                         |             |
| 16 | MEKKI, IMAD EDDINE      |           |                         |                         |             |
| 17 | MELAikia, AZZEDDINE     |           | 03,00                   |                         |             |
| 18 | MERABTI, ABDERRAHMEN    |           | 04,75                   |                         |             |
| 19 | MERAIHIA, SAMEH         |           | 00,75                   |                         |             |
| 20 | MEROUANI, ELATRA        |           | 00,75                   |                         |             |
| 21 | MILI, AYA               |           | 02,50                   |                         |             |
| 22 | MISSI, MOHAMMED SABRI   |           | 00,00                   |                         |             |
| 23 | REZAIGUIA, OUSSAMA      |           | 00,25                   |                         |             |

Date et signature

05/04/2021

Diplôme: Licence LMD  
Domaine: Sciences et Technologies  
Année d'étude: 2L-ST

Filière: Automatique

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: ..... Maths 3 .....  
Enseignant: Zekouf (tenkoufi)

2020/2021

| N° | Nom, Prénoms |                     | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|--------------|---------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | ABED         | YOUSSEF             |    | 04,75                   |                         |             |
| 2  | ACHOUR       | Khalil              |                                                                                     |                         |                         |             |
| 3  | ALLAMA       | Mouloud             |    | 00,00                   |                         |             |
| 4  | BENKIRAT     | MOUHAMED ACHRAF     |    | 02,50                   |                         |             |
| 5  | BOUGUERNE    | OMAR                |    | 08,50                   |                         |             |
| 6  | DIEMAA       | MAHIR               |    | 00,00                   |                         |             |
| 7  | HABBACHE     | ABDRAOUF            |    | 02,25                   |                         |             |
| 8  | HAMICI       | AYMEN               |   | 03,25                   |                         |             |
| 9  | KHELAIFIA    | DJIHEN              |                                                                                     |                         |                         |             |
| 10 | KSOURI       | HALIMA              |  | 00,00                   |                         |             |
| 11 | MACHENE      | IMED EDDINE         |                                                                                     |                         |                         |             |
| 12 | MEZAACHE     | AHMED               |  | 04,75                   |                         |             |
| 13 | RAMDANI      | KHAYREDDINE         |  | 01,50                   |                         |             |
| 14 | SMARA        | ISLAM-RACHAD-EDDINE |  | 01,25                   |                         |             |

ATAMNIA ALA Eddine  03,00

1

05/09/2021





Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Génie des Procédés

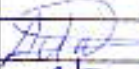
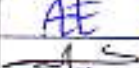
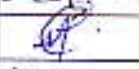
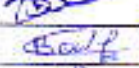
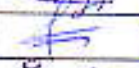
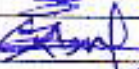
### PV DE NOTES

Matière: MATHS 3

Groupe: GP1

2020/2021

Enseignant: R. Mella

| N° | Nom, Prénoms        | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|---------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | ACHACHERA, WODJDENE |    | 10,25                   |                         |             |
| 2  | ATAMENIA, RANIA     |    | 01,00                   |                         |             |
| 3  | ATAMENIA, ROFAIDA   |    | 02,25                   |                         |             |
| 4  | ATSAMENIA, ISRA     |    | 03,25                   |                         |             |
| 5  | BARCBAOUI, RAHMA    |    |                         |                         |             |
| 6  | BEKOUCHE YOUSRA     |    | 03,25                   |                         |             |
| 7  | BELHADJ, ZAKARIA    |   |                         |                         |             |
| 8  | BELHASSEB, SARRA    |  | 02,00                   |                         |             |
| 9  | BENZANNACHE, SOMIA  |  | 04,00                   |                         |             |
| 10 | BETEH, AMANI        |  | 05,50                   |                         |             |
| 11 | BORDJ, SEIF EDDINE  |  |                         |                         |             |
| 12 | BOUAHSSANE, CHAÏMA  |  | 10,00                   |                         |             |
| 13 | BOUZENAD, BOUTHEYNA |  | 12,50                   |                         |             |
| 14 | CHIHIAOUI, ILHEM    |  | 04,50                   |                         |             |
| 15 | DOUKHI, AMIRA       |  | 06,00                   |                         |             |
| 16 | GANNA, MOUSSA       |  | 01,25                   |                         |             |
| 17 | KACHL, HALIMA       |  | 10,00                   |                         |             |
| 18 | KHELAIFIA, IBTISSEM |  | 08,00                   |                         |             |
| 19 | KOUAHLA, RAYANE     |  | 07,75                   |                         |             |
| 20 | MEKHANIA, WIAM      |  | 16,50                   |                         |             |
| 21 | MIHOUB, INES        |  | 06,25                   |                         |             |
| 22 | REKKAB, HANA        |  | 07,50                   |                         |             |
| 23 | SAIDIA, NOUHA       |  | 13,75                   |                         |             |
| 24 | TAGHRIBET, MERIEM   |  | 08,25                   |                         |             |
| 25 | ZELFA, OUIDAD       |  | 07,50                   |                         |             |

Date et signature

8/4/2021



Diplôme: Licence LMD  
 Domaine: Sciences et Technologies  
 Année d'étude: 2L-ST  
 Filière: Génie des Procédés

### PV DE NOTES

Matière: Math 3  
 Enseignant: R. Mella

Groupe: GP2

2020/2021

| N° | Nom, Prénoms         | Signature | Note avant consultation | Note après consultation | observation |
|----|----------------------|-----------|-------------------------|-------------------------|-------------|
| 1  | AMIRA, RAWANE        |           | 11,25                   |                         |             |
| 2  | BEN HAMZA, HADIL     |           | 04,25                   |                         |             |
| 3  | BERREHAIL, KHEIR     |           | 03,00                   |                         |             |
| 4  | BOUZOBRA, ALA EDDINE |           | 09,50                   |                         |             |
| 5  | BRINIS, MOHAMED      |           |                         |                         |             |
| 6  | CHELGHOU, DOUNIA     |           | 12,50                   |                         |             |
| 7  | DJELLALA, HALIMA     |           | 02,00                   |                         |             |
| 8  | FADEL, YOUSSEF       |           | 14,75                   |                         |             |
| 9  | GARROUT, ASMA        |           | 03,75                   |                         |             |
| 10 | GARROUT, CHAÏMA      |           | 00,75                   |                         |             |
| 11 | GHARBIA, AKRAM       |           | 04,75                   |                         |             |
| 12 | HADDAD, CHAHINAZE    |           | 07,25                   |                         |             |
| 13 | HAMLAOUI, ISMAIL     |           | 10,00                   |                         |             |
| 14 | KHALFA, WEFA         |           | 08,00                   |                         |             |
| 15 | KLAI, YOUSRA         |           | 01,75                   |                         |             |
| 16 | MAICHIA, ASSIA       |           | 05,75                   |                         |             |
| 17 | MAOUI, KARIMA        |           | 00,00                   |                         |             |
| 18 | NEILL, ROMAÏSSA      |           | 15,00                   |                         |             |
| 19 | REZGUI, ASMA         |           | 02,75                   |                         |             |
| 20 | SALHI, RACHA         |           | 15,50                   |                         |             |
| 21 | SAOUDI, ILHAM        |           | 03,00                   |                         |             |
| 22 | SIAFI, MANAL         |           | 07,75                   |                         |             |
| 23 | ZERDOUDI, NOUHA      |           | 03,25                   |                         |             |

Date et signature

8/4/2021



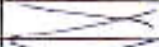
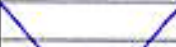
Diplôme: Licence LMD  
Domaine: Sciences et Technologies  
Année d'étude: 21-ST

Filière: Génie des Procédés

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: Math 3  
Enseignant: R. Mella

2020/2021

| N° | Nom, Prénoms |               | Signature                                                                           | Note avant consultation                                                              | Note après consultation | observation |
|----|--------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------|-------------|
| 1  | BEN KIRAT    | MALEK         |    |    |                         |             |
| 2  | BORDIIBA     | KAOUTHER      |    |    |                         |             |
| 3  | BOUCHAMA     | ABDENNOUR     |    |    |                         |             |
| 4  | BOUHALIT     | NADA          |    |    |                         |             |
| 5  | DJEHAICHIA   | SOHEYB        |    |    |                         |             |
| 6  | GAOUA        | ROUMAYSSA     |    | 03,00                                                                                |                         |             |
| 7  | HARROUD      | Loubna        |   | 00,50                                                                                |                         |             |
| 8  | KARA         | CHIHAB EDDINE |  |  |                         |             |
| 9  | SAADANE      | Abdnour       |  |  |                         |             |
| 10 | SEKFALI      | GHADA         |  | 03,75                                                                                |                         |             |
| 11 | SERHANI      | NASSIM        |  |  |                         |             |
| 12 | SISSAOUI     | LINA          |  |  |                         |             |

8/4/2021





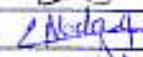
Diplôme: Licence LMD  
Domaine: Sciences et Technologies  
Année d'étude: 2L-ST

Filière: Génie des Procédés

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: MATHS 3  
Enseignant: R. Mellal

2020/2021

| N° | Nom, Prénoms |               | Signature                                                                           | Note avant consultation | Note après consultation | observation |
|----|--------------|---------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------|
| 1  | BEN KIRAT    | MALEK         |    | <del>03,00</del>        |                         |             |
| 2  | BORDJIBA     | KAOUTHER      |    | 03,00                   |                         |             |
| 3  | BOUCHAMA     | ABDENNOUR     |    | 02,00                   |                         |             |
| 4  | BOUHALIT     | NADA          |    | 02,00                   |                         |             |
| 5  | DJEHAICHIA   | SOHEYB        |    | 01,00                   |                         |             |
| 6  | GAOUA        | ROUMAYSSA     |   | <del>03,00</del>        |                         |             |
| 7  | HARROUD      | Loubna        |  | <del>03,00</del>        |                         |             |
| 8  | KARA         | CHIHAB EDDINE |  | 02,75                   |                         |             |
| 9  | SAADANE      | Abdnour       |  | <del>03,00</del>        |                         |             |
| 10 | SEKFALI      | GHADA         |  | <del>03,00</del>        |                         |             |
| 11 | SERHANI      | NASSIM        |  | 00,50                   |                         |             |
| 12 | SISSAOUI     | LINA          |  | <del>03,00</del>        |                         |             |

8/4/2021  
Mellal

Diplôme: Licence LMD

Domaine: Sciences et Technologies

Année d'étude: 2L-ST

Filière: Génie civil

PV DE NOTESMatière: maths 3  
Enseignant: Rezaoui Naseri

Groupe: Génie civil 1

2020/2021

| N  | Nom, Prénoms             | Signature | Note avant consultation | Note après consultation | observation |
|----|--------------------------|-----------|-------------------------|-------------------------|-------------|
| 1  | BACHITARZI, MOHAMED      |           | 04,50                   |                         |             |
| 2  | BENCHEIKH, ABD EL BASSIT |           | 04,25                   |                         |             |
| 3  | BENSOUANE, SARRA         |           | 06,50                   |                         |             |
| 4  | BENSOUILAH, AKRAM        |           | 07,50                   |                         |             |
| 5  | BOUCHAALA, AYMEN         |           | 06,75                   |                         |             |
| 6  | BOUCHEMELLA,             |           | 04,50                   |                         |             |
| 7  | BOUDOUR, MAYSSA          |           | 03,00                   |                         |             |
| 8  | BOUFELFEL, ANIS          |           | 03,00                   |                         |             |
| 9  | BOURAS, AKRAM            |           | 01,50                   |                         |             |
| 10 | HADDOURI, DHIKRA         |           | 00,00                   |                         |             |
| 11 | HARAT, FERIEL            |           | 03,00                   |                         |             |
| 12 | KHELIFATI, KHALED        |           |                         |                         |             |
| 13 | BATAH, AHLAM             |           | 00,00                   |                         |             |
| 14 | MAHDJOUR, OUSSAMA        |           | 07,00                   |                         |             |
| 15 | MALEK, ANIS              |           | 04,00                   |                         |             |
| 16 | MEQDAD, QASEM            |           | 02,00                   |                         |             |
| 17 | MOUHOUB, AQILA MANAL     |           | 01,50                   |                         |             |
| 18 | OUDJANI, AMINE           |           |                         |                         |             |
| 19 | RADOUANE, RAMINE         |           | 00,00                   |                         |             |
| 20 | SERIDI INES              |           | 03,00                   |                         |             |
| 21 | ZORGUI, IBTISSAM         |           | 00,25                   |                         |             |

Date et signature



Diplôme: Licence LMD  
 Domaine: Sciences et Technologies  
 Année d'étude: 2L-ST  
 Filière: Génie civil

# PV DE NOTES

Matière: ....*MATH3*.....  
 Enseignant: *Rezgui Nabila*

Groupe: Génie civil 2

2020/2021

| N° | Nom, Prénoms          | Signature          | Note avant consultation | Note après consultation | observation |
|----|-----------------------|--------------------|-------------------------|-------------------------|-------------|
| 1  | ABDI ANEAL            | <i>[Signature]</i> | 00,00                   |                         |             |
| 2  | AL BADAREEN, MOHEE    | <i>[Signature]</i> | 01,00                   |                         |             |
| 3  | ALAIN AMADOU DAVIES,  | <i>[Signature]</i> |                         |                         |             |
| 4  | AYECHE, NIDHAL        | <i>[Signature]</i> | 03,50                   |                         |             |
| 5  | AZEDINE, CHIREZ       | <i>[Signature]</i> | 02,25                   |                         |             |
| 6  | LACHOURI, AMMAR       | <i>[Signature]</i> | 12,50                   |                         |             |
| 7  | BOUMECHTA, ANIS       | <i>[Signature]</i> | 00,00                   |                         |             |
| 8  | BOURESSACE, WASSIM    | <i>[Signature]</i> | 04,00                   |                         |             |
| 9  | BOUSSOUFA, MOHAMED    | <i>[Signature]</i> | 04,00                   |                         |             |
| 10 | BOUTELDJA, ABDERRAHIM | <i>[Signature]</i> | 04,25                   |                         |             |
| 11 | DJEMAL, ROUMAYSSA     | <i>[Signature]</i> | 06,50                   |                         |             |
| 12 | FRIEKH, IBRAHIM       | <i>[Signature]</i> | 04,00                   |                         |             |
| 13 | GOUASMIA, IMENE       | <i>[Signature]</i> | 02,00                   |                         |             |
| 14 | HAMDJ, LINA           | <i>[Signature]</i> | 05,50                   |                         |             |
| 15 | HOUMA, AMIRA ROUA     | <i>[Signature]</i> | 08,00                   |                         |             |
| 16 | MAALLEM, DOUNIA       | <i>[Signature]</i> | 07,00                   |                         |             |
| 17 | MIMED, ABDELMALIK     | <i>[Signature]</i> | 04,50                   |                         |             |
| 18 | OUARETH, ABDEL HEQ    | <i>[Signature]</i> | 02,25                   |                         |             |
| 19 | OUSMAN YAYE, MOHAMED  | <i>[Signature]</i> | 03,25                   |                         |             |
| 20 | REZIGLI, HAFNAOUI     | <i>[Signature]</i> |                         |                         |             |
| 21 | SAIDIA, TAKI EDDINE   | <i>[Signature]</i> | 05,00                   |                         |             |
| 22 | ZIYAD MOHAMMED        | <i>[Signature]</i> | 06,00                   |                         |             |

23 *Oudjani Amine* *[Signature]* 00,50

Date et signature

11/04/2021

*[Signature]*



Diplôme: Licence LMD  
 Domaine: Sciences et Technologies  
 Année d'étude: 2L-ST

Filière: Génie civil

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: maths 3  
 Enseignant: Rezzouk Nadjima

2020/2021

| N° | Nom, Prénoms           |                       | Signature          | Note avant consultation | Note après consultation | observation |
|----|------------------------|-----------------------|--------------------|-------------------------|-------------------------|-------------|
| 1  | ABDI                   | SEYFEDDIN             | <i>[Signature]</i> | 00                      |                         |             |
| 2  | ALLALATA               | QAMAR                 | <i>[Signature]</i> |                         |                         |             |
| 3  | AZAIZIA                | BESMA                 | <i>[Signature]</i> | 02                      |                         |             |
| 4  | BENARBIA               | FATIMA- ZAHRA         | <i>[Signature]</i> |                         |                         |             |
| 5  | BOUBERDAA              | HANENE                | <i>[Signature]</i> | 02,25                   |                         |             |
| 6  | BOUCHAIR               | Mohammed aymen        | <i>[Signature]</i> | 00,25                   |                         |             |
| 7  | BOUGHOGAL              | HADIL                 | <i>[Signature]</i> | 00,00                   |                         |             |
| 8  | BOUKERCHE              | YOUCEF                | <i>[Signature]</i> |                         |                         |             |
| 9  | BRAHMIA                | SOUNDESS              | <i>[Signature]</i> |                         |                         |             |
| 10 | CHERIF                 | MAROUA                | <i>[Signature]</i> |                         |                         |             |
| 11 | GHOMEIENE              | AFRA                  | <i>[Signature]</i> |                         |                         |             |
| 12 | GUEZAOUT               | FERIEL                | <i>[Signature]</i> |                         |                         |             |
| 13 | KRIN                   | LINA                  | <i>[Signature]</i> | 00,25                   |                         |             |
| 14 | MELKI                  | RAYANE                | <i>[Signature]</i> |                         |                         |             |
| 15 | MERBAI                 | NARIMANE              | <i>[Signature]</i> |                         |                         |             |
| 16 | MESHLEEF               | Hemyar hamid mohammed | <i>[Signature]</i> |                         |                         |             |
| 17 | MOHAMED CHEIKH AHMEDOU | Sidi mohamed          | <i>[Signature]</i> |                         |                         |             |
| 18 | MOKAS                  | Mohammed anis         | <i>[Signature]</i> |                         |                         |             |
| 19 | OBEIZI                 | ABDENNOUR             | <i>[Signature]</i> |                         |                         |             |
| 20 | ROUABHIA               | IMENE                 | <i>[Signature]</i> | 02,00                   |                         |             |
| 21 | YAHAMDI                | Zakaria               | <i>[Signature]</i> |                         |                         |             |
|    | <i>Omelaa</i>          | <i>Mahdi</i>          | <i>[Signature]</i> | 01,75                   |                         |             |
|    | <i>Balochawane</i>     | <i>AK ram</i>         | <i>[Signature]</i> | 00                      |                         |             |

11/04/2021

*[Signature]*

Diplôme: Licence LMD  
 Domaine: Sciences et Technologies  
 Année d'étude: 2L-ST

Filière: Génie civil

**PV DE NOTES**  
**Etudiants ENDETTES**

Matière: ...MATH3.....  
 Enseignant: Rezzou Nourine

2020/2021

| N° | Nom, Prénoms           |                       | Signature    | Note avant consultation | Note après consultation | observation |
|----|------------------------|-----------------------|--------------|-------------------------|-------------------------|-------------|
| 1  | ABDI                   | SEYFEDDIN             |              |                         |                         |             |
| 2  | ALLALATA               | QAMAR                 | <u>Mk</u>    | 03                      |                         |             |
| 3  | AZAIZIA                | BESMA                 |              |                         |                         |             |
| 4  | BENARBIA               | FATIMA- ZAHRA         |              |                         |                         |             |
| 5  | BOUBERDAA              | HANENE                |              |                         |                         |             |
| 6  | BOUCHAIR               | Mohammed aymen        |              |                         |                         |             |
| 7  | BOUGHOGAL              | HADIL                 |              |                         |                         |             |
| 8  | BOUKERCHE              | YOUCEF                |              |                         |                         |             |
| 9  | BRAHMIA                | SOUNDESS              | <u>Bnaif</u> | 03,50                   |                         |             |
| 10 | CHERIF                 | MAROUA                | <u>Waj</u>   | 03,00                   |                         |             |
| 11 | GHOMRIENE              | AFRA                  | <u>Afra</u>  | 02,00                   |                         |             |
| 12 | GUEZAOUT               | FERIEL                | <u>Waj</u>   | 03,00                   |                         |             |
| 13 | KRIN                   | LINA                  |              |                         |                         |             |
| 14 | MELKI                  | RAYANE                |              |                         |                         |             |
| 15 | MERBAI                 | NARIMANE              |              |                         |                         |             |
| 16 | MESHLEEF               | Hemyar hamid mohammed |              |                         |                         |             |
| 17 | MOHAMED CHEIKH AHMEDOU | Sidi mohamed          |              |                         |                         |             |
| 18 | MOKAS                  | Mohammed anis         |              |                         |                         |             |
| 19 | OBEIZI                 | ABDENNOUR             |              |                         |                         |             |
| 20 | ROUABHIA               | IMENE                 |              |                         |                         |             |
| 21 | YAHAMDI                | Zakaria               | <u>Waj</u>   | 00,00                   |                         |             |

11/04/2021  
Rf