

# Advanced STEM Students

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## Tóm tắt nội dung

This text is a part of the series *Some Topics in Advanced STEM & Beyond*:

URL: [https://nqbh.github.io/advanced\\_STEM/](https://nqbh.github.io/advanced_STEM/).

Latest version:

- *Advanced STEM Students*.

PDF: URL: [https://github.com/NQBH/advanced\\_STEM\\_beyond/blob/main/teach/student/NQBH\\_student.pdf](https://github.com/NQBH/advanced_STEM_beyond/blob/main/teach/student/NQBH_student.pdf).

TeX: URL: [https://github.com/NQBH/advanced\\_STEM\\_beyond/blob/main/teach/student/NQBH\\_student.tex](https://github.com/NQBH/advanced_STEM_beyond/blob/main/teach/student/NQBH_student.tex).

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## Mục lục

|   |    |
|---|----|
| <b>1 UMT Summer Semester 2025/1480: Introduction to Mathematical Analysis</b> | 1  |
| 1.1 Potential topics for midterm exam   | 3  |
| 1.2 Final grades  | 3  |
| <b>2 UMT Summer Semester 2025/1481: Introduction to Mathematical Analysis</b> | 4  |
| 2.1 Final grades  | 7  |
| <b>3 UMT Summer Semester 2025/1387: Combinatorics &amp; Graph Theory</b>      | 7  |
| 3.1 Potential topics for midterm- & final exams                               | 10 |
| <b>4 UMT Summer Semester 2025/1488: Introduction to AI</b>                    | 10 |
| <b>5 UMT Summer Semester 2025/1493: Information Technology Fundamentals 2</b> | 11 |
| <b>6 UMT Fall Semester 2025/1629: Discrete Mathematics LAB 1</b>              | 14 |
| <b>7 UMT Fall Semester 2025/1629: Discrete Mathematics LAB 2</b>              | 17 |
| <b>8 UMT Fall Semester 2025/1575: Linear Algebra LAB 1</b>                    | 19 |
| <b>9 UMT Fall Semester 2025/1575: Linear Algebra LAB 2</b>                    | 22 |
| <b>10 Olympic Tin OLP ICPC</b>  | 23 |
| <b>11 Miscellaneous</b>   | 23 |

## 1 UMT Summer Semester 2025/1480: Introduction to Mathematical Analysis

### 1. TRẦN THANH CƯỜNG.

- Absence: -2 - 2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:

### 2. HUỲNH LÂM VŨ ĐÌNH.

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- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 2$ .

3. TRƯƠNG CÔNG HOAN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 2 + 1.5 + 0.5$ .

4. NGUYỄN HUY HOÀNG [NHH].

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.25 + 0.5 + 0.5 + 1 + 2$  (count rooms) +  $2$  (build roads) +  $2$  (labyrinth) +  $2$  (message route) +  $2$  (Christmas party) +  $0.5 + 1$  (l'Hospital) +  $1$  (next prime) +  $0.25$  (weird alg) +  $0.25$  (repetition) +  $0.25$  (miss number) +  $0.25$  (increase array) +  $0.5$  (permutation) +  $0.5$  (2 sets) +  $0.5$  (Hanoi tower) +  $0.5$  (bee) +  $0.5$  (gold coin) +  $0.5$  (number spiral) +  $0.25$  (2 knights) +  $0.5$  (bit string) +  $0.5$  (trailing 0) +  $0.5$  (coin pile) +  $0.25$  ( $3n + 1$ ) +  $0.5 + 0.25 + 0.25 + 0.5$  (create string) +  $1 + 1 + 1$ .

5. LŨ MINH HOÀNG.

- Absence:  $-2$ .
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:

6. HÀ QUANG HUY.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:

7. NGUYỄN BẢO KHÁNH [NBK].

- Absence:  $-1$ .
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 2 + 1 + 0.5 + 1 + 1.5$  (l'Hospital) +  $0.5 + 0.5 + 0.5 + 1 + 1 + 1.5$ .

8. NGUYỄN LÊ ĐĂNG KHOA [NLDK].

- Absence:  $-2$ .
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$  (gift) +  $1.5 + 0.25 + 0.5$  (doubles) +  $0.5$  (prime) +  $0.5$  (houseboat) +  $1$  (red black) +  $1$  (count rooms) +  $1$  (dice) +  $1$  (min coin) +  $1$  (coin combination I) +  $1$  (coin combination II) +  $1$  (grid path I) +  $1.5$  (book shop) +  $1$  (exp I) +  $1$  (exp II) +  $0.5$  (count divisor) +  $1$  (common divisor) +  $1.5$  (Josephus queries) +  $2$  (sum divisor) +  $0.75$  (next prime) +  $1$  (binom coeff) +  $1$  (create string II) +  $1$  (distribute apple) +  $1$  (Christmas party) +  $1.75$  (l'Hospital) +  $0.25$  (weird alg) +  $3$  (permutation order) +  $1.5$  (meet middle) +  $0.25$  (repetition) +  $0.25$  (increase array) +  $0.25$  (permutation) +  $0.25$  (number spiral) +  $0.25$  (2 sets) +  $0.25$  (bit string) +  $0.25$  (trailing zeros) +  $0.25$  (palindrome reorder) +  $0.25$  (coin pile) +  $0.25$  (hangover) + sum ( $0.25$ ) +  $0.25$  (humidex) +  $0.25$  (specialized 4-digit num) +  $0.25$  (checksum) +  $0.25$  (Dirichlet) +  $0.5 + 1$  (circumference circle) +  $1$  (filled subgrid count I) +  $0.5 + 1 + 0.5$  (naughty cow) +  $0.5$  (chicken fox) +  $0.5$  (farm guard) +  $0.5$  (wolf sheep) +  $1$  (labyrinth) +  $1$  (ocean) +  $0.5$  (El fuchu) +  $0.5$  (torch) +  $0.5$  (negative prefix) +  $0.5$  (be positive) +  $0.5$  (unconventional pairs) +  $0.5$  (odd divisor) +  $0.5$  (new year number) +  $0.5$  (card friend) +  $0.5$  (MEX partition) +  $0.5$  (distinct element) +  $0.5$  (bedao number) +  $0.5$  (fill chessboard).

9. PHẠM GIA LẠC [PGL].

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 0.25 + 0.25 + 0.5$  (doubles) +  $0.5$  (houseboat) +  $0.5$  (prime) +  $1$  (count room) +  $1$  (min coin) +  $0.5$  (count divisor) +  $0.75$  (next prime) +  $1$  (prime multiple) +  $1$  (binom coeff) +  $1$  (create string II) +  $1$  (distribute apple) +  $1$  (Christmas party) +  $0.25$  (bitstring) +  $0.25$  (gray code) +  $2 + 0.5 + 1 + 2$  (Riemann sums).

10. PHẠM PHƯƠNG PHI [PPP].

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 0.5 + 1 + 0.5 + 0.5$  (prime) +  $1$  (count rooms) +  $1$  (dice) +  $1$  (coin) +  $1$  (coin combination I) +  $0.5$  (count divisor) +  $1$  (common divisor) +  $1$  (distribute apple) +  $0.75$  (l'Hospital) +  $1 + 1$  (count bit) +  $0.5$  (2 knights) +  $0.5 + 0.5$  +  $1$  (filled subgrid count I) +  $0.5 + 0.5 + 0.5$ .

11. ĐẶNG MINH PHƯƠNG.

- Absence: -2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:

12. NGUYỄN HOÀNG QUÂN.

- Absence: -1.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus: 1.

13. ĐƯỜNG NGUYỄN MINH SƠN.

- Absence: -2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus: 1 + 1.5.

14. HÁU TRUNG THÀNH.

- Absence: -2 - 2 - 2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .

15. TẠ MINH THIỆN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus: 1 + 1 + 1 + 2.5 + 1.5.

16. LÊ NGUYỄN QUỐC TOÀN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus: 2 + 2 + 2.

17. NGUYỄN ANH TUYỀN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus: 1.

18. NGUYỄN NHƯ Ý.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus: 1 + 1.

## 1.1 Potential topics for midterm exam

1. Cho dãy số  $\{u_n\}_{n=1}^{\infty}$ . Cho vài giá trị cụ thể của  $\varepsilon$ , tính  $N_{\varepsilon}$ .

## 1.2 Final grades

| Tên SV                | Điểm cột 15% | Điểm cộng     |
|-----------------------|--------------|---------------|
| Trần Thanh Cường      | 0            | điểm trừ -2.5 |
| Huỳnh Lâm Vũ Đình     | 6.3          |               |
| Trương Công Hoan      | 6.3          |               |
| Nguyễn Huy Hoàng      | 10           | 16.25         |
| Lữ Minh Hoàng         | 1.7          |               |
| Hà Quang Huy          | 3.3          |               |
| Nguyễn Bảo Khánh      | 10           | 0.5           |
| Nguyễn Lê Đăng Khoa   | 10           | 35.75         |
| Phan Gia Lạc          | 10           | 11            |
| Phan Phương Phi       | 10           | 8.75          |
| Dặng Minh Phương      | 0            |               |
| Nguyễn Hoàng Quân     | 3            |               |
| Dường Nguyễn Minh Sơn | 3.3          |               |
| Háu Trung Thành       | 0            | điểm trừ -5   |
| Tạ Minh Thiện         | 8            |               |
| Lê Nguyễn Quốc Toàn   | 8.7          |               |
| Nguyễn Anh Tuyền      | 4            |               |
| Nguyễn Như Ý          | 4.7          |               |

## 2 UMT Summer Semester 2025/1481: Introduction to Mathematical Analysis

1. LÊ MINH TRÂM ANH.

- Absence: -2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $3.5 + 3.5 + 1.5 + 1$ .

2. NGUYỄN BẢO ANH.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Late: 5 mins.
- Bonus: 1.5.

3. CAO GIA BẢO.

- Absence: -2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .

4. VŨ VĂN ĐẠT.

- Absence: -2 - 1.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 0.5 + 1$ .

5. TRẦN VĂN HẬU.

- Absence: -2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 2.5 + 1 + 1.5$ .

6. NGUYỄN NGỌC BÍCH HIỀN [NNBH].

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $0.25 + 1 + 1 + 2 + 1 + 1.5 + 1.5$  (int poly) +  $1.5$  (int poly like).

7. NGUYỄN VĂN HIẾU.

- Absence: -2 - 2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .

8. DƯƠNG XUÂN HƯNG [DXH].

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 1 + 1$  (gift) +  $1$  (picture) +  $2$  (count rooms) +  $2.5$  (coin combination I) +  $2$  (coin combination II) +  $3$  (array description) +  $1.5$  (numerical differentiation OOP) +  $2$  (next prime) +  $0.5$  (weird alg) +  $1.5$  (int poly) +  $1$  (miss num) +  $0.5$  (repetition) +  $0.5$  (increase array) +  $0.5$  (hangover) +  $3$  (IMO2007P3) +  $0.5$  (ugly num) +  $1$  (max xor sum) +  $0.5$  (Pascal triangle).

9. TRẦN LÊ GIA HUY.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Late: 20 + 21 mins.

10. TRẦN QUANG HUY.

- Absence: -2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 2 + 1.5$ .
- Late: 22 mins.

11. ĐẶNG PHÚC AN KHANG [DPAK].

- Absence: -2 - 2 - 2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75$ .
- Late:  $15 + 52 + 80$  mins.

- Bonus:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 1 + 0.5$  (virus) +  $0.5$  (gift) +  $0.5$  (game) +  $0.25$  (financial management) +  $0.5 + 0.5$  (prime) +  $1$  (red black) +  $1 + 1$  ( $x^a$ ) +  $1$  (count room) +  $1$  (build road) +  $1$  (dice combination) +  $1$  (minimizing coin) +  $1$  (coin combination I) +  $1$  (coin combination II) +  $1.5$  (remove digit) +  $1$  (grid path I) +  $1$  (book shop) +  $1$  (exp I) +  $1.5$  (edit distance) +  $1.5$  (longest common subsequence) +  $1$  (num diff polynomial) +  $1.5$  (prime multiple) +  $0.75$  (next prime) +  $1$  (binom coeff) +  $1.5$  (meet middle) +  $1.5$  (Hamming dist) +  $0.25$  (palindrome reorder) +  $0.75$  (2 set) +  $0.25$  (bit string) +  $0.25$  (num spiral) +  $0.25$  (trailing 0) +  $0.25$  (tower Hanoi) +  $0.5$  (apple division) +  $0.25$  (create string) +  $0.25$  (IMO2007P5) +  $0.25$  (IMO2008P3) +  $0.25$  (hangover) +  $0.25$  (sum) +  $0.1$  (humidex) +  $0.25$  (checksum) +  $0.25$  (specialized 4-digit num) +  $0.25$  (contesting decision) +  $0.25$  (Dirichlet) +  $0.25$  (circumference circle) +  $0.25$  (vertical histogram) +  $1.5$  (IMO2007P1) +  $0.25$  (gold coin) +  $0.25$  (bee) +  $0.25$  (manager) +  $0.25$  (Pascal lib) +  $0.25$  (ride school) +  $0.25$  (self num) +  $0.25$  (speed limit) +  $0.25$  ( $3n + 1$  prob) +  $0.25$  (calendar) +  $0.5$  (sym order) +  $0.25$  +  $0.75$  (knapsack) +  $0.5$  (tile) +  $0.25$  (Hanoi tower) +  $0.25$  (mex grid construction) +  $0.25$  (knight move grid) +  $0.5 + 1 + 0.25 + 2$  (Stirling 1) +  $2$  (falling factorial) +  $2$  (rising factorial) +  $0.5$  (Pascal triangle) +  $0.5$  (naughty cow) +  $0.5$  (pond) +  $1$  (ocean) +  $0.5$  (chicken fox) +  $0.5$  (farm guard) +  $1.5$  (mortal kombat tower) +  $0.5$  (frog) +  $0.5$  (cube) +  $0.5$  (El fuchho) +  $1$  (thief) +  $0.5$  (torch) +  $1$  (negative prefix) +  $0.5$  (be positive) +  $0.5$  (unconventional pair) +  $1.5$  (trash) +  $1$  (MEX rose) +  $0.5$  (odd divisor) +  $0.5$  (new year number) +  $1$  (ball in Berland) +  $1$  (clean phone) +  $0.5$  (circle apple tree) +  $0.5$  (bitwise operation) +  $1$  (even odd game) +  $0.5$  (MEX partition) +  $0.5$  (distinct element) +  $0.5$  (reverse XOR) +  $0.5$  (sublime sequence) +  $0.5$  (laser) +  $0.5$  (pacer) +  $0.5$  (dandelion) +  $1$  (split) +  $1$  (replace occurrence) +  $1$  (gravity fall) +  $0.5$  (incremental subarray) +  $0.5$  (bedao number) +  $1.5$  (fill chessboard) +  $1$  (prepare Olympiad) +  $0.5$  (shortest increasing path) +  $1.5$  (take guess) +  $0.5$  (equal occurrence) +  $0.5$  (variety operation) +  $1.5$  (take place) +  $0.5$  (maple multiplication) +  $1$  (powered addition) +  $0.5$  (2 vessel) +  $1$  (corridor) +  $1$  (non-coprime split) +  $1$  (+- permutation) +  $2$  (data structure fan) +  $0.5$  (multiple construction) +  $1$  (Abraham escape) +  $0.5$  (pizza time) +  $2$  (rabbit) +  $1$  (strange machine) +  $1.5$  (max gcd whiteboard).

12. LUÔNG QUỐC KHÁNH.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 1 + 1 + 1 + 0.5$ .

13. NGUYỄN HÀ ĐĂNG KHOA.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 0.5 + 2.5$ .

14. NGUYỄN HUY ĐĂNG KHOA.

- Absence: -1 - 2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .

15. HUỲNH ĐỖ ĐĂNG KHOA.

- Late:  $23 + 45 + 25 + 20 + 10 + 25 + 22$  mins.
- Early attendance:  $0.75 + 0.75$ .
- Bonus:  $1$ .

16. TRẦN TRUNG KIÊN.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .

17. NGUYỄN HUỲNH CHÍ LÂM.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 0.75 + 1 + 1$ .

18. LÊ HOÀNG LINH.

- Absence: -2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 1 + 1.5 + 1 + 2 + 2.5 + 1.5$ .
- Late: 30 mins.

19. LÂM BẢO NGỌC.

- Absence: -1.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $0.25 + 1 + 4 + 1 + 1 + 3$ .
- Late: 10 mins.

20. NGUYỄN LUÔNG NGHĨA [NLN].

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $0.5 + 1 + 1 + 3 + 1.5 + 1.5 + 1.5 + 1 + 1 + 1.5$  (int) + 2.5.

21. TRẦN PHÚC NGUYÊN.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .

22. BÙI VĂN Nhớ.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Late: 40 + 10 mins.
- Bonus:  $1 + 1 + 1 + 1 + 3 + 0.75 + 2$ .

23. LÊ THANH TÂN.

- Absence: -1 - 1 - 2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Late: 5 mins.

24. HUỲNH THỊ KIỀU THU.

- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1.5 + 1 + 2$ .

25. HOÀNG NGHĨA TÍN.

- Absence: -2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .

26. HOÀNG ANH TUẤN.

- Absence: -2 - 2 - 2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .

27. NGÔ THANH TÙNG.

- Absence: -2 - 2 - 2 - 2.
- Early attendance:  $0.75 + 0.75 + 0.75$ .
- Late: 29 + 15 mins.

28. NGÔ HOÀNG TÙNG [NHT].

- Absence: -2.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 1.5 + 0.5 + 0.5$  (virus) + 0.5 (vni) + 0.5 (gift) + 0.5 (game) + 1 + 1 (count rooms) + 1 (labyrinth) + 1 (build roads) + 1 (dice) + 1 (min coin) + 1 (coin combination I) + 1 (coin combination II) + 1 (remove digit) + 1 (grid path) + 1.5 (array description) + 1 (book shop) + 1.5 (count towers) + 1.5 (edit distance) + 1 (exp I) + 1 (exp I) + 1 (num diff poly) + 1.25 (num diff poly 1) + 1.5 (Josephus queries) + 2 (sum divisor) + 0.75 (next prime) + 0.75 (next prime) + 1 (binom coeff) + 1 (create string II) + 1 (distribute apple) + 1 (Christmas party) + 3 (permutation order) + 1.5 (Hamming dist) + 0.75 (int poly C++) + 0.25 (palindrome reorder) + 0.25 (2 sets) + 0.25 (create string) + 0.5 (midterm) + 0.15 (humidex) + 0.25 (hangover) + 0.25 (specialized 4 digit num) + 0.25 (quick sum) + 0.25 (contesting decision) + 0.25 (vertical histogram) + 0.25 (ride school) + 0.75 (ugly number) + 0.25 (bee) + 0.25 (gray code) + 1 (filled subgrid count II).

29. TRẦN MỘNG TUYỀN.

- Absence: -1 - 1.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 2 + 2.5$ .

30. NGUYỄN QUANG VÝ.

- Absence: -1 - 2 - 1.
- Early attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 4 + 1 + 1.5 + 1.5 + 1 + 1.5 + 1.5 + 2.5$ .

## 2.1 Final grades

| Tên SV                | Điểm cột 15% | Điểm cộng      |
|-----------------------|--------------|----------------|
| Lê Minh Trâm Anh      | 9            |                |
| Nguyễn Bảo Anh        | 4            |                |
| Cao Gia Bảo           | 3.2          |                |
| Vũ Văn Dạt            | 3.7          |                |
| Trần Văn Hậu          | 7.2          |                |
| Nguyễn Ngọc Bích Hiền | 10           | 2.25           |
| Nguyễn Văn Hiếu       | 0.8          |                |
| Dương Xuân Hưng       | 10           | 22.75          |
| Trần Lê Gia Huy       | 3.3          |                |
| Trần Quang Huy        | 5.2          |                |
| Dặng Phúc An Khang    | 10           | 48.1           |
| Lương Quốc Khánh      | 7.5          |                |
| Nguyễn Hà Đăng Khoa   | 7.2          |                |
| Nguyễn Huy Đăng Khoa  | 1            |                |
| Huỳnh Đỗ Đăng Khoa    | 0.8          |                |
| Trần Trung Kiên       | 4.5          |                |
| Nguyễn Huỳnh Chí Lâm  | 7            |                |
| Lê Hoàng Linh         | 9            |                |
| Lâm Bảo Ngọc          | 10           | 1              |
| Nguyễn Lương Nghĩa    | 10           | 13.5           |
| Trần Phúc Nguyên      | 5            |                |
| Bùi Văn Nhớ           | 10           | 0.5            |
| Lê Thanh Tân          | 0            | điểm trừ -0.25 |
| Huỳnh Thị Kiều Thu    | 10           | 1.5            |
| Hoàng Nghĩa Tín       | 2.7          |                |
| Hoàng Anh Tuấn        | 0            | điểm trừ -0.75 |
| Ngô Thanh Tùng        | 0            | điểm trừ -6    |
| Ngô Hoàng Tùng        | 10           | 41.65          |
| Trần Mộng Tuyền       | 6.2          |                |
| Nguyễn Quang Vỹ       | 10           | 1.5            |

3 UMT Summer Semester 2025/1387: Combinatorics & Graph Theory

## 1. VÕ NGỌC TRÂM ANH [VNTA].

- Early attendance:  $0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5$ .
  - Bonus:  $0.75 + 1 + 2 + 1.5 + 0.5 + 0.5 + 0.5$  (Fibonacci + Lucas) +  $0.5$  (virus) +  $2.5$  (gen func) +  $2$  (Euler candy gen func) +  $0.5$  (houseboat) +  $0.5$  (prime) +  $1$  (red black) +  $1$  (count rooms) +  $1$  (labyrinth) +  $1$  (build roads) +  $1$  (message routes) +  $1$  (build team) +  $1$  (round trip) +  $1$  (monster) +  $1.5$  (flight route) +  $1$  (dice) +  $1$  (coin) +  $1$  (coin combination I) +  $1$  (coin combination II) +  $1$  (grid path) +  $2$  (Dijkstra) +  $3$  (proof Dijkstra) +  $2.5$  (Dijkstra priority queue) +  $1$  (exp I) +  $1$  (exp II) +  $1$  (Stirling 2 DP) +  $0.5 + 0.75 + 1$  (valid parentheses) +  $1$  (C++ valid parentheses) +  $1$  (PAC Catalan C++) +  $1$  (Pascal triangle, multinomial) +  $0.5$  (count geo domain) +  $1.5$  (Josephus queries) +  $1.5$  (Bell matrix multiplication) +  $0.5 + 0.5 + 1$  (count coprime pair) +  $1$  (binom coeff) +  $1$  (create string II) +  $1$  (distribute apple) +  $1$  (Christmas party) +  $0.75$  (spanning tree) +  $0.75$  (tiling) +  $0.25$  (weird alg) +  $0.25$  (repetition) +  $0.25$  (miss number) +  $0.25$  (increase array) +  $0.25$  (permutation) +  $1$  (line segment intersection) +  $1.5$  (graph representation converters) +  $0.25$  (derangement) +  $0.25$  (coffee) +  $2$  (score tool) +  $1$  (count 1) +  $0.5$  (knapsack) +  $1$  (int partition) +  $0.5$  (p 5n + 4) +  $0.75$  (Newton binomial) +  $0.25$  (partition) +  $0.5$  (subset square num) +  $2$  (Stirling II) +  $1$  (falling factorial) +  $1$  (rising factorial) +  $0.5$  (Pascal triangle) +  $0.5$  (Tribonacci) +  $1$  (Ferrers diagram) +  $2$  (proof leaf of tree).
  - Midterm: 11.25.

## 2. HOÀNG ANH [HA].

- Early attendance:  $0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5$ .
  - Bonus:  $1.5 + 1 + 0.5 + 1.5 + 1$  (Stirling 2)  $+ 0.25 + 0.25 + 0.5$  (Euler)  $+ 0.25$  (monic monomial)  $+ 0.5 + 0.25 + 1$  (types of graph)  $+ 0.5 + 1$  (recursion sum of powers)  $+ 0.5 + 0.25 + 0.25 + 0.75$  (graphic)  $+ 0.5 + 0.25 + 0.25 + 0.75 + 0.5 + 0.75$ . Done.

- Midterm: 6.5.

### 3. VŨ HUỲNH THÁI BẢO.

- Early attendance:  $0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5$ .
  - Late: 7 mins.
  - Bonus:  $0.5 + 0.5 + 0.75 + 0.25 + 0.25 + 0.5 + 0.25 + 1 + 0.5 + 0.5 + 0.5 + 0.5$  (Stirling 2) +  $0.5 + 0.5 + 1.5$  (gen func) +  $0.5$  (Euler candy) +  $0.5 + 0.5 + 0.5 + 0.25$  (Dirichlet principle) +  $1$  (derangement) +  $1 + 1 + 1$  (Pascal triangle) +  $0.25 + 0.25 + 0.25 + 0.5 + 0.5 + 0.25 + 0.5 + 0.5 + 0.25 + 1$  (Petersen) +  $0.5 + 0.5 + 0.5$  (forest) +  $1 + 1 + 1 + 1 + 1 + 1 + 0.5$

#### 4. TRẦN MẠNH ĐỨC.

- Absence: -1 - 1.
  - Early attendance:  $0.25 + 0.5 + 0.25 + 0.25 + 0.25 + 0.5 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25$ .
  - Bonus:  $1.5 + 1 + 1.5 + 0.5$  (Stirling 2).
  - Late:  $18 + 7 + 30$  mins.
  - Midterm: 5.75.

5. NGUYỄN TRUNG HẬU.

- Absence: -2 - 2 - 2 - 2 - 2 - 2 - 2 -2.
  - Early attendance:  $0.25 + 0.25 + 0.25 + 0.25 + 0.5 + 0.25 + 0.25 + 0.25 + 0.5$ .
  - Bonus:  $1 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25$  (plane split)  $+ 0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25$  (gen func)  
 $+ 0.25 + 0.25 + 0.25 + 0.5$  (bowtie graph)  $+ 0.5$  (circuit)  $+ 0.5 + 0.25 + 0.25$  (longest path method)  $+ 0.5 + 0.5 + 0.5$   
 $+ 0.5 + 0.5 + 0.5$ .

## 6. PHẠM PHƯỚC MINH HIẾU [PPMH].



7. HOÀNG QUANG HUY.

- Absence: -2 - 1.
  - Early attendance:  $0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5$ .
  - Bonus: 2 + 1.5.
  - Midterm: 5.25.

8. PHAN NGUYỄN DUY KHA.

- Absence: -1 - 1 - 2 - 2 - 1.
  - Early attendance:  $0.25 + 0.5 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.5$ .
  - Bonus:  $1.5 + 1 + 1 + 1 + 1.5 + 1.5 + 1.5$  (\$).
  - Late: 60 mins.
  - Midterm: 7

9. ĐẶNG PHÚC AN KHANG.

- Bonus:  $0.5 + 1 + 1$ .

10. PHẠM MINH KHOA.

- Absence:  $-2 - 2 - 1 - 1 - 2$ .
- Early attendance:  $0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.5$ .
- Bonus: 0 (midterm exam: cheat use phone)
- Late: 10 mins.
- Report: 0.

11. TRẦN THÀNH LỢI.

- Absence:  $-2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2$ .
- Early attendance:  $0.25 + 0.25 + 0.25 + 0.25 + 0.5 + 0.25 + 0.25$ .
- Bonus:
- Late:  $23 + 60 + 15$  mins.
- Midterm: 0.

12. LÊ ĐỨC LONG.

- Absence: -2.
- Early attendance:  $0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5$ .
- Bonus:  $1 + 0.5 + 1 + 1 + 0.25 + 0.25 + 0.25 + 0.25 + 0.5$  (type of graph) +  $0.25 + 0.75 + 0.25 + 0.5 + 1$  (Christmas party) +  $0.5 + 0.25 + 0.25 + 0.5$  (Python Euler candy) +  $0.75 + 1$  (Euler candy gen func) +  $0.5$  (Python Pascal identity) +  $0.5$  (Catalan dp) +  $0.5$  (bracket sequences I) +  $0.5 + 0$ . (Stirling 2) +  $0.5$  (Stirling 1) +  $0.5$  (Bell) +  $0.25$  (Bell appro).

Tới 19. CM Dijkstra p. 19

- Midterm: 6.

13. LÊ CÔNG HOÀNG PHÚC.

- Early attendance:  $0.25 + 0.5 + 0.25 + 0.25 + 0.25 + 0.5 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5$ .
- Bonus:  $1 + 1 + 1$  (induction).
- Late:  $24 + 3 + 12$  mins.
- Midterm: 4.5.

14. HUỲNH NHẬT QUANG.

- Absence:  $-2 - 2 - 2 - 2 - 2 - 2$ .
  - Early attendance:  $0.25 + 0.25 + 0.25 + 0.25 + 0.25 + 0.25$ .
  - Late:  $10 + 20 + 20 + 20 + 28 + 22 + 20$  mins.
  - Midterm: 2.
  - Bonus:  $0.25 + 0.5 + 0.25 + 0.25 + 0.25$ .
- To report week 2 p. 5.
- Comment: Không compile được file tex.

15. CAO SÝ SIÊU (CSS).

- Early attendance:  $0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5$ .
  - Bonus:  $1 + 1 + 1 + 0.5 + 1$  (derangement) +  $0.75$  (inclusion-exclusion) + 2 (PAC Catalan) + 1 (Catalan proof) + 2 (Pascal triangle) +  $0.5 + 0.5 + 0.5 + 0.5 + 0.75$  (lack of graph isomorphism) +  $1 + 1 + 0.25 + 0.5 + 1 + 2$  (Havel-Hakimi) +  $1.5$  (gen func) +  $2.5$  (proof Dijkstra) +  $1 + 1 + 1 + 0.5 + 1 + 0.5 + 1 + 1 + 1$ .
- To P. 10.2.12 p. 31
- Late: 8 mins.
  - Midterm: 5.75.

- ### 16. SƠN TÂN [ST].

- Early attendance:  $0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.5 + 0.25$   
+ 0.5 + 0.25.
  - Bonus: 1 + 1 + 1.5 + 2 (Linux).  
Chấm report Sơn Tân: 0.25 (a) + 0.25 (b) + 0.25 (c) + 0.25 (e) + 0.25 (g, ghi sai mũ) + 0.25 (h) + 1.5 (Pascal, làm được  
cho  $(\sum_{i=1}^m a_i)^n$  nhiều điểm hơn) + 2 (tính  $C_n^k$ ) + 1 (graphic sequence) + 1.5 (Euler d) + 2.5\*\*\* (Euler).
  - Midterm: 6.

- ## 17. NGUYỄN NGỌC THẠCH [NNT].

- Absence: -1 - 1.
  - Early attendance:  $0.25 + 0.25 + 0.5 + 0.25 + 0.5 + 0.5 + 0.25 + 0.5 + 0.25 + 0.25 + 0.25$ .
  - Bonus:  $3 + 1 + 1 + 1.5 + 2$  (Catalan) + 5 (Euler candy) + 2.5 (induction) + 1 (toss coin) + 1 (dice roll) + 1 (dice roll) + 1 + 1 + 2 (combinator identity) + 1.5 (dollar) + 0.5 + 2.5 + 1.5 + 1 + 1 + 1 + 1 + 1.5 + 1 + 1.5 (Stirling 2 recursive).
  - Late: 5 + 23 + 34 mins.
  - Midterm: 8.25.

- ## 18. PHAN VĨNH TIẾN [PVT].

- Early attendance:  $0.25 + 0.5 + 0.25 + 0.5 + 0.25 + 0.25 + 0.5 + 0.25 + 0.25 + 0.5 + 0.25 + 0.5$ .
  - Bonus:  $2 + 0.5$  (virus)  $+ 1 + 2$  (binomial)  $+ 1$  (exp I)  $+ 1$  (exp II)  $+ 1$  (Stirling 2 DP)  $+ 1$  (Bell)  $+ 1.5$  (ads)  $+ 1$  (banana)  $+ 0.5$  (point location test)  $+ 2$  (IMO2007P1)  $+ 2$  (Newton binomial, multinomial thm)  $+ 1.5$  (count bit)  $+ 1$  (int partition)  $+ 5$  (int trigonometrical funcs)  $+ 0.5$  (pizza time).
  - Late:  $8 + 25 + 16$  mins  $+ 48 + 14 + 10$ .
  - Midterm: 11.

### 3.1 Potential topics for midterm- & final exams

- Chứng minh bằng phương pháp quy nạp toán học.
  - Bài toán chia kèo Euler.
  - Khai triển nhị thức Newton.
  - Sử dụng định lý Euler & thuật toán Havel-Hakimi để chạy tay kiểm tra 1 dãy có phải là graphical sequence hay không. Vẽ đồ thị minh họa.
  - Hàm sinh.
  - Chạy tay thuật toán Dijkstra.
  - Shortest path problem on graph – Bài toán đường đi ngắn nhất.

4 UMT Summer Semester 2025/1488: Introduction to AI

- ## 1. HỒ LÊ DUY.

- Absence: -2 - 2.
  - Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Final assignment: -1.

- ## 2. TRƯƠNG CÔNG HOAN.

- Absence: -2.
  - Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Final assignment: -1.

3. LŨ MINH HOÀNG.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Final assignment:

- #### 4. ĐỊNH KIM HƯNG.

- Absence: -1.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $3 + 3$ .
- Final assignment: 1.

5. HUỲNH VŨ QUỐC KHÁNH.

- Absence:  $-2 - 2 - 2 - 2 - 2 - 2$ .
- Early attendance:  $0.5 + 0.5 + 0.5$ .

6. NGUYỄN NHẬT KHÔI.

- Absence:  $-2 - 1 - 2 + 0.5$ .
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .

7. VÒNG LÝ NÀM PHÚC VLNP.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 2$  (extended scheduling) + 3 (solve triangle ccc) + 3 (solve triangle cgc) + 3 (solve triangle gcg) + 2 (graph color) + 3 (A\*) + 4 (TSP).

8. HÀU TRUNG THÀNH.

- Absence:  $-2 - 2 - 2 - 2$ .
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Late: 5 mins.

9. NGUYỄN THỊ.

- Absence:  $-2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2$ .

10. ĐẶNG NGUYỄN DUY TRƯỜNG.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .

## 5 UMT Summer Semester 2025/1493: Information Technology Fundamentals 2

1. CAO NGUYỄN GIA AN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $3.5 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5 + 1 + 1 + 1.5 + 2.5 + 1$  (eval func) +  $1.5 + 2 + 2 + 2.5 + 1.25 + 1 + 1 + 0.5 + 1$  (Fib) +  $1.5$  (HN) +  $2 + 2 + 2 + 2.5$  (partition) +  $1.5 + 2 + 0.5 + 0.5 + 1 + 1$ .
- Midterm: 4.5.

2. HOÀNG TRÂM ANH.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 2 + 2 + 2.5 + 1.5 + 0.5 + 1 + 1.5 + 0.5 + 1 + 1 + 1$ .
- Midterm: 8.

3. BÙI NGUYỄN MINH DŨNG.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $2.5 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5$ .
- Midterm: 10.

4. NGUYỄN NGỌC HÂN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 1 + 1.5 + 0.5 + 1 + 1 + 1.5 + 1 + 1.5 + 2 + 2 + 2.5 + 0.5 + 1 + 1.5 + 1.5$ .
- Midterm: 7.

5. NGUYỄN THÀNH THÁI HIỆP.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $3 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 1.5 + 2.5$  (near perfect)  $+ 2 + 2 + 0.5 + 0.5 + 1$  (sym num)  $+ 1$  (prime fact).
- Midterm: 6.5.

6. VŨ NGUYỄN YÊN HOA.

- Absence: -2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 2 + 2.5 + 1 + 1.5 + 0.5 + 1$  (eval func)  $+ 1.5 + 2 + 1 + 1.5 + 2 + 1 + 0.5 + 1 + 1 + 1 + 2$ .
- Midterm: 6.

7. ĐỖ HUY HOÀNG.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1$  (Fib)  $+ 1.5 + 2 + 1.5 + 0.5 + 0.5 + 1 + 1 + 2$ .
- Midterm: 3.5.

8. NGUYỄN GIA HUY.

- Absence: -2 - 2 - 2 - 2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5$ .
- Early attendance:  $0.5 + 1$  (eval func)  $+ 1.5 + 2 + 2 + 2.5 + 1 + 0.5$ .
- Midterm: 5.5.

9. PHẠM LÂM GIA KHÁNH.

- Absence: -2 - 2.
- Early attendance:  $0.5 + 0.5$ .
- Late: 15 mins.
- Bonus:  $0.5 + 0.5 + 1 + 1.5 + 2 + 1.5 + 1 + 2$ .
- Midterm: 5.5.

10. PHẠM XUÂN KHÁNH.

- Absence: -2 - 1 - 2 - 2 - 2.
- Early attendance:  $0.5 + 0.5$
- Late: 15 + 30 mins.
- Bonus:  $2 + 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 2 + 0.5 + 0.5 + 1 + 1 + 1 + 1$ .
- Midterm: 10.25.

11. BÙI ĐỨC KHOA.

- Absence: -2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 2 + 1$  (eval func)  $+ 1.5 + 0.5 + 1.5 + 2 + 0.5 + 1 + 1$ .
- Midterm: 3.

12. TRẦN VŨ NGUYỄN KHÔI.

- Absence: -1 - 2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Late: 20 mins.
- Bonus:  $3 + 2 + 2 + 1 + 1.5 + 1 + 1.5 + 1 + 2 + 2$  (near perfect)  $+ 2 + 2.5 + 0.5 + 1$  (Fib)  $+ 0.5 + 0.5 + 1 + 1$  (sort str).
- Midterm: 5.25.

13. VŨ THỊ NGỌC LAN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $2.5 + 2 + 2 + 2.5 + 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 1.5 + 2 + 2 + 2.5 + 1 + 0.5 + 1 + 2 + 3$ .

- Midterm: 10.5.

14. TRẦN VĂN LÊN.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 2 + 2 + 2.5 + 2.5 + 1 + 1.5 + 1 + 1 + 1.5 + 1$  (eval func) +  $1.5 + 2 + 2 + 2.5 + 1 + 0.5 + 1.5 + 2 + 1.5 + 0.5 + 0.5 + 1 + 1 + 1$  (prime Fibo).
- Midterm: 4.

15. THÁI ANH NHẬT THIỀN LONG.

- Absence: -2 - 2 - 2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $2 + 2 + 2.5 + 1.5 + 1$ .
- Midterm: 7.5.

16. LÊ NGUYỄN BẢO NGỌC. Tristy.

- Absence: -2 - 1 - 2 - 2 - 2 - 2.
- Late:  $15 + 15 + 10 + 92$  mins.
- Bonus:  $1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 1.5 + 2 + 1.5 + 2$  (Pascal triangle) +  $0.5 + 1 + 1 + 1$  (prime Fibo).
- Midterm: 9.75.

17. LÊ HỒNG NGỌC.

- Absence: -2 - 1.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $2 + 2.5 + 1$  (eval func) +  $1.5 + 2 + 2 + 0.5 + 1$  (Fib) +  $2.5 + 1.5 + 2 + 1 + 0.5 + 0.5 + 1 + 1$  (prime Fibo) + 1 (sort str) + 1.
- Midterm: 8.75.

18. NGUYỄN HỮU NHÂN.

- Absence: -2 - 2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 1.5 + 2 + 0.5 + 0.5 + 1 + 1 + 1 + 1 + 1 + 2$ .
- Late:  $15 + 15$  mins.
- Midterm: 3.5.

19. LÂM THIỆN NHÂN.

- Absence: -2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $2.5 + 1 + 1$ .
- Midterm: 5.

20. PHẠM MINH NHẬT.

- Absence: -2
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 2 + 2 + 2.5 + 1 + 1.5 + 2 + 0.5 + 1 + 1.5 + 1$ .
- Midterm: 6.75.

21. PHẠM QUỲNH NHƯ.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus: 1 (eval func) + 2.
- Midterm: 8.25.

22. NGUYỄN NGỌC QUỲNH NHƯ.

- Absence: -2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .

- Midterm: 8.

23. ĐOÀN TRƯƠNG THIÊN PHONG.

- Absence: -2 - 2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Midterm: 7.

24. HỒ TÂN TÀI.

- Absence: -2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 2 + 2 + 1 + 0.5 + 1 + 1 + 1.5 + 2 + 1.5$ .
- Late:  $10 + 20 + 15 + 43$  mins.
- Midterm: 10.

25. HỒ QUỐC THÀNH.

- Absence: -2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1.5 + 1 + 1 + 1.5 + 1 + 0.5 + 1 + 2$ .
- Midterm: 4.5.

26. NGUYỄN THỊ MINH THỦ.

- Absence: -2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2.
- Midterm: 0.

27. ĐỖ THỊ HẢI TÌNH.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $2 + 2 + 2.5 + 1 + 1.5 + 0.5 + 1 + 1.5 + 1 + 1.5 + 2 + 0.5$ .
- Midterm: 9.75.

28. VÕ ĐOÀN THÁI TOÀN.

- Absence: -2.
- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 2 + 2 + 1 + 0.5 + 1 + 1 + 1.5 + 2 + 2.5 + 0.5 + 1$ .
- Midterm: 9.

29. TRẦN QUỐC TRUNG.

- Early attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 2 + 2 + 2.5 + 1 + 0.5 + 1.5 + 1 + 1.5 + 2 + 0.5 + 1$ .
- Midterm: 8.25.

## 6 UMT Fall Semester 2025/1629: Discrete Mathematics LAB 1

1. TRẦN GIA BẢO [TGB].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1 + 1.5 + 1 + 1.5$  (BT8) + 1.5.

2. NGUYỄN KHOA ĐĂNG.

- Attendance:  $0.75 + 0.75 - 2 - 1 + 0.75$ .
- Bonus: 1.5 (BT1).

3. VÕ HẢI ĐĂNG [VHD].

- Attendance:  $0.75 - 2 + 0.75 - 2 + 0.75$ .
- Bonus:  $0.5 + 0.5 + 1.5 + 1.5$ .

#### 4. LÊ HẢI ĐÔNG [LHD].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1.5 + 1 + 2 + 2 + 2 + 1$  (BTL1) +  $1.5$  (BTLT2) +  $1 + 1 + 1 + 1 + 1 + 1.5 + 1.5 + 2$ .

5. LÊ NGỌC KHANH DUY.

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:

## 6. TRẦN ANH HẢO [TAH].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1.5 + 1.5 + 2 \text{ (BT5)} + 1.5 \text{ (BT6)} + 0.5 \text{ (BT20 Rosen)} + 1 \text{ (BT28 Rosen)} + 1.5 + 1.5$ .

7. LÊ MINH HIỀN.

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1.5 + 2 + 2$ .

## 8. PHẠM PHƯỚC MINH HIẾU [PPMH].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1.5 + 1.5 + 1$  (BT35 Rosen)  $+ 1.5$ .

9. LÊ NGUYỄN MINH HIẾU [LNMH].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1.5 + 1 + 1.5 + 1.5$ .

## 10. TRẦN PHƯỚC ĐINH HỢI [TPDH].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1 + 1 + 1 + 0.5 + 2 + 1.5 + 1.5$ .

11. NGUYỄN DUY KHA [NDK].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1.5 + 1 + 0.5 + 1$  (BTLT1) +  $1.5 + 1$ .

12. ĐỖ VĂN KHÁNH.

- Absence: -3- 2- 2- 2 (ca 2?).
  - Attendance:
  - Bonus:

### 13. NGUYỄN ĐĂNG KHOA [NDK].

- Attendance:  $0.75 - 2 + 0.5$ .
  - Bonus: 1.5.

## 14. TRƯƠNG NGUYỄN ĐĂNG KHOA.

- Absence:  $-3 - 2 + 0.75 + 0.75$ .
  - Attendance: 0.75.
  - Bonus:

## 15. PHAN ANH KHƯƠNG [PAK].



## 16. NGUYỄN THÀNH LÂM [NTL].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
  - Bonus:  $1 + 1 + 0.5 + 1$  (BT8) +  $1$  (BT9) +  $1 + 1 + 1.5 + 1.5 + 1.5 + 1.5 + 1 + 1$

17. NGUYỄN HUỲNH LONG [NHHL].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1.5 + 0.5 + 1 + 1.5 + 1.5 + 1.5 + 1.5 + 2 + 1.5 + 1.5 + 1 + 0.5$ .

18. NGÔ ĐỨC MẠNH [NDM].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 0.5 + 0.5 + 1.5 + 1.5 + 1.5 + 1.5 + 1$ .

19. BÙI TRỌNG NGHĨA.

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1.5 + 1.5 + 1 + 1.5 + 2$ .

20. LÊ ĐĂNG NGHĨA [LDN].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1.5 + 1.5 + 1 + 0.5 + 1.5$  (BT8) + 1.5.

21. NGUYỄN HOÀNG PHÚC [NHP].

- Absence: -3.
- Attendance:  $0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1.5$ .

22. THIỀU NGUYỄN ÂN PHÚC.

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:

23. NGUYỄN MINH PHÚC [NMP].

- Absence:  $0.5 + 0.5 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1.5 + 0.5 + 1 + 1.5 + 1.5$ .

24. ĐẶNG BẢO PHÚC [DBP].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $+1.5 + 2$ .

25. LÊ TÂN MINH QUÂN [LTMQ].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1.5 + 1 + 1.5 + 2$ .

26. BÙI MINH QUANG [BMQ].

- Attendance:  $0.75 + 0.75 + 0.75 - 2 - 2$ .
- Bonus:

27. NGUYỄN HOÀNG SƠN [NHS].

- Absence: -3.
- Attendance:  $0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $0.5 + 0.5 + 0.5 + 1$  (BTLT1) +  $1.5 + 1.5$ .

28. NGUYỄN HỮU TÀI.

- Absence: -3- 2- 2.
- Attendance: 0.5.
- Bonus:

29. LÊ ĐỖ MINH THUẬN [LDMT].

- Absence: -3 -3 + 0.75.
- Attendance:

- Bonus:

30. NGUYỄN MINH TRUNG [NMT].

- Attendance:  $0.75 + 0.75 + 0.75 + 0.75 + 0.75$ .
- Bonus:  $1.5 + 1 + 1.5 + 1 + 2 + 1.5$ .

31. HUỲNH TIẾN TRUNG [HTT].

- Attendance:  $0.75 + 0.75 - 2 - 2 - 2$ .
- Bonus:  $2 + 1.5$ .

32. TRỊNH KIM TUÂN [TKT].

- Absence:  $-3 - 2 + 0.75 + 0.75$ .
- Attendance:  $0.75$ .
- Bonus:  $1.5 + 1.5$ .

33. LÊ PHẠM HỒNG VY [LPHV].

- Attendance:  $0.75 + 0.75 - 1 + 0.75 + 0.75$ .
- Bonus:  $1 + 1 + 0.5 + 1$ .

## 7 UMT Fall Semester 2025/1629: Discrete Mathematics LAB 2

1. NGUYỄN TRẦN ĐÌNH AN [NTDA].

- Attendance:  $0.5 + 0.5 + 0.5 - 2 + 0.5$ .
- Bonus:  $2 + 2 + 2 + 2 + 2$ .

2. NGUYỄN GIA BẢO [NGB].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1.5 + 0.5 + 1 + 1 + 1 + 0.5 + 1.5 + 1.5 + 1.5 + 0.5 + 0.5$ .

3. NGUYỄN TIẾN BẢO [NTB].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 0.5 + 1.5 + 1.5 + 1.5 + 1.5 + 1.5 + 1 + 1.5 + 1.5 + 1 + 0.5$ .

4. LÂM THIỆN CHÍ [LTC].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 0.5 + 1.5 + 1 + 2$ .

5. NGUYỄN HOÀNG DANG [NHD].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 2$  (BT6).

6. LÊ ĐĂNG THÀNH ĐẠT [LDTD].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 1.5 + 1.5 + 1.5 + 1.5$  (BT11) + 2.

7. HUỲNH THÁI DƯƠNG [HTD].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1 + 1 + 1$  (BT5).

8. QUÁCH TRẦN MINH HIỀN.

- Attendance:  $0.5 + 0.5 - 2 - 2 - 2$ .
- Bonus:

9. LÊ CHÍ HÙNG.

- Absence:  $-3 - 1 + 0.5 + 0.5$ .

- Attendance: 0.5.
- Bonus: 1.5 + 1.5.

10. TRẦN VŨ QUANG HUY [TVQH].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1.5 + 1 + 0.5 + 1.5 + 1.5 + 2$ .

Hàn Thị

11. LUÔNG HUỲNH [LH].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1 + 1.5 + 1.5 + 2 + 1.5 + 1.5 + 2 + 2 + 2 + 2 + 2 + 1.5 + 2 + 2 + 1.5$ .

12. NGUYỄN VŨ HOÀNG LÂM [NVHL].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 2$ .

13. NGUYỄN CẨNH LÂN [NCL].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 1 + 0.5 + 1 + 1 + 1.5 + 1.5$ .

14. ĐỖ QUANG LỘC [DQL].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 0.5 + 1.5$  (BT7).

15. DƯƠNG HỮU LỢI [DHL].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 - 1$ .
- Bonus:  $1.5 + 1.5 + 1 + 0.5 + 0.5 + 0.5$ .

16. NGUYỄN HUY LONG [NHL].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 2 + 2 + 2 + 2 + 1.5 + 1.5 + 1.5$ .

17. TRƯƠNG PHÚC MINH [TPM].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 0.5 + 1 + 0.5$  (new year number) +  $0.5$  (fair division) +  $0.5$  (card friend) +  $0.5$  (MEX partition) +  $2 + 0.5$  (sublime sequence)  $1 + 1 + 0.5 + 1.5 + 1.5 + 1.5 + 1 + 1.5 + 0.5$  (shortest increasing path) +  $1$  (equal occurrence) +  $0.5$  (maple multiplication) +  $0.5$  (2 vessel) +  $1$  (corridor) +  $1.5 + 1.5 + 1.5 + 1.5 + 1.5 + 1.5 + 0.5 + 1$  (strange machine).

18. TRẦN MINH NHÂN [TMN].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 1 + 1.5$  (BT6).

19. TRẦN LÂM HỒNG NHÂN [TLHN].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $2 + 2 + 2 + 1$ .

20. HUỲNH THANH PHÚ [HTP].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1$  (BT4).

21. MÃ GIA PHÚC.

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1$ .

22. DƯƠNG NGUYỄN QUANG SƠN [DNQS].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $2 + 2 + 3 + 1.5 + 2 + 2 + 1$ .

### 23. NGUYỄN PHẠM DUY THÀNH [NPDT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $0.5$  (BT5)  $+ 0.5 + 0.5 + 1 + 1.5 + 1$ .

#### 24. ĐỖ PHÚC THỊNH [DPT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $1.5 + 2 + 1 + 2 + 1 + 1.5$  (BT8).

## 25. HOÀNG LÊ MINH THƯ [HLMT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $1.5 + 1.5 + 1.5 + 1 + 1$ . BT5-7: AI.

26. NGUYỄN TÂN MINH TOÀN [NTMT].



## 27. HÀN THỊ THÙY TRANG [HTTT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $1.5 + 1.5 + 1.5 + 1 + 1$  (BTLT).

28. BÙI NGUYỄN NHỰT VINH [BNNV].

- Attendance:  $0.5 + 0.5 - 2 + 0.5$ .
  - Bonus:  $0.5 (\text{BT5}) + 0.5 (\text{BT6}) + 1.5 + 1 (\text{BT7})$ .

29. PHẠM LÊ KHÁNH VY [PLKV].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $1.5 + 1.5 + 1.5 + 1 + 1.5$ .

8 UMT Fall Semester 2025/1575: Linear Algebra LAB 1

1. NGUYỄN THÀNH CÔNG [NTC].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1 + 1 + 2 + 1 + 2 + 1.5 + 1.5$ .

## 2. NGUYỄN NGỌC TRÚC DÀO [NNTD].

- Attendance:  $-3 + 0.5 - 1 - 2 - 2$ .
  - Bonus: 0.5.

### 3. TRẦN THÀNH ĐẠT [TTD].

- Attendance:  $0.5 + 0.5 + 0.5 - 2 + 0.5$ .
  - Bonus:  $1 + 1 + 1 + 1.5 - 1 + 1.5 + 1 + 1 + 1$ .

#### 4. TRẦN NHẬT DUY [TND].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
  - Bonus:  $1 + 1 + 1 + 1 + 1 + 1.5 + 1 + 1 + 0.5 + 1 + 1.5 + 1 + 0.5 + 1.5 + 1.5 + 1 + 1 + 3$ .

## 5. NGUYỄN PHÚC DUY [NPD].

- Attendance:  $0.5 + 0.5 + 0.5 - 2 + 0.5$ .
  - Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1.5 + 1 + 2 + 1 + 1.5 + 1.5 + 3 + 3$ .

## 6. NGUYỄN NHẬT DUY [NND].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 0 + 1 + 0 + 1 + 0 + 1 + 1 + 2 + 0.5 + 1.5 + 1.5 + 1 + 1$ .

7. NGÔ QUANG HÀO [NQH].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 0.5 + 1.5 + 0.5 + 0.5 + 1 + 1 + 2 + 1.5$ .

8. VŨ VINH HIỀN [VVH].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1 + 0.5 + 1 + 1 + 1.5 + 1.5$ .

9. TRẦN VĂN HOÀNG [TVH].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 1 + 1 + 1.5 + 1 - 0.5$  (resubmit)  $+ 1 + 2 + 1 + 2 + 1.5 + 1.5 + 2.5 + 3$ .

10. NGUYỄN VŨ BẢO HOÀNG [NVBH].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 0.5 + 1 + 1 + 1 + 0.5 + 1.5 + 0.5 + 1.5 + 1.5 + 2.5 + 2.5$ .

11. ƯNG NHỰT KHANG [UNK].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1 + 1.5 + 0.5 + 1 + 0.5 + 2 + 1.5 + 1 + 0.5 + 1.5 + 1.5 + 1 + 1$ .

12. PHẠM TUẤN KHANH [PTK].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 0.5 + 1 + 2 + 1 + 1.5 + 1.5 - 0.5$ .

13. NGUYỄN CHÍ KHANH [NCK].

- Attendance:  $-1 - 1 + 0.5 - 2 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 2 + 1 + 0.5 + 1.5 + 1.5$ .

14. BÙI ĐĂNG KHOA [BDK].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1.5 + 1 + 0.5 + 2 + 1 + 2 + 1.5 + 1.5 + 1 + 1$ .

15. NGUYỄN VẠN PHÚC KHOA [NVPK].

- Attendance:  $0.5 - 2 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 - 0.5 + 1.5 + 1 + 1 + 0.5 + 1 + 1.5 + 1 + 0.5 + 1$ .

16. ĐOÀN NGUYỄN ĐĂNG KHOA [DNDK].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 0.5 + 0.5 + 1 + 1 + 1.5 + 1 + 2 + 1 + 2 + 1 + 2$  (BT11)  $+ 1.5 + 1 + 0.5$  (weird alg)  $+ 0.5$  (miss number)  $+ 0.5$  (repetition)  $+ 0.5$  (increase array)  $+ 0.5$  (permutation)  $+ 0.5$  (num spiral)  $+ 0.5$  (bit string)  $+ 0.5$  (trailing zero)  $+ 0.5$  (coin pile)  $+ 0.5$  (IMO2007P5)  $+ 0.5$  (hangover)  $+ 0.5$  (sum)  $+ 0.5$  (ugly number)  $+ 0.5$  (speed limit)  $+ 0.5$  (self num)  $+ 0.5$  (gold coin)  $+ 0.25 + 0.5$  (Hanoi tower)  $+ 0.5$  (new year number)  $+ 0.5$  (card friend)  $+ 0.5$  (fair division)  $+ 1$  (corridor).

17. NGÔ ĐĂNG KHÔI [NDK].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 2 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1.5 + 1 + 2 + 1 + 1.5 + 0.5 + 3 + 3$ .

18. TRẦN NHẬT KHÔI [TNK]. AI expert.

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1 + 2 + 1 + 1 + 1 + 1.5$ .

19. CAO TÀI LỘC [CTL].

- Attendance:  $-3 - 2 + 0.5 + 0.5 + 0.5$ .

- Bonus:  $2 + 1 + 0.5 + 1.5 + 1.5$ .

20. NGUYỄN QUỐC MINH [NQHM].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 0.5 + 1.5 + 0.5 + 1.5 + 1.5 + 1 + 0.5 + 2 + 1 + 0.5 + 1.5 + 1.5 + 1$ .

21. PHAN HỮU BÌNH NGUYỄN [PHBN].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 0.5 + 0.5 + 1 + 1 + 1.5 + 0.5 + 1 + 2 + 1 + 1.5 + 0.5 + 3$ .

22. NGUYỄN LÊ QUỲNH NHƯ [NLQN].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1 + 1.5 + 1 + 2 + 1 + 1.5 + 1 + 1.5 + 3$ .

23. VÕ TÂN PHÁT [VTP].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 0.5 + 0.5 + 1 + 0.5$  (BT1) +  $0.5 + 0.5 + 0.5 + 1 + 0.5$  (BT2) +  $0.5 + 1.5 + 0.5 + 1 + 0.5$ .

24. LÊ CÔNG HOÀNG PHÚC.

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1 + 1.5 + 1 + 2 + 1 + 1 + 1.5 + 1.5 + 3 + 2.5$ .

25. VÕ NHƯ PHÚC [VNP].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1.5 + 1 + 2 + 1 + 1 + 1.5 + 1.5 + 3 + 3$ .

26. NGUYỄN THỊ NGUYỄN THẢO [NTNT].

- Attendance:  $-2 - 2 + 0.5 - 1 + 0.5$ .
- Bonus:  $3 + 3$ .

27. NGUYỄN THANH THIỆN [NTT].

- Attendance:  $0.5 + 0.5 + 0.5 - 2 - 2$ .
- Bonus:  $0.5 + 0.5 + 0.5 + 1 + 0.5 + 1.5 + 1.5 + 1 + 2 + 1$ .

28. NGUYỄN PHÚ THỊNH [NPT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 2 + 1 + 0.5 + 1.5 + 0.5 + 1.5 + 1 + 1.5$  (BT11) +  $1.5 + 1.5 + 1 + 2 + 1 + 1 + 1 + 1.5 + 1 + 0.5 + 0.5$ .

29. NGÔ ĐÌNH THÔNG [NDTh].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 0.5 + 0.5 + 0.5 + 1 + 0.5 + 1$  (BT6) +  $1 + 1$  (BT7) +  $1 + 0.5 + 2 + 1.5 + 0.5 + 0.5 + 1.5 + 1 + 0.5 + 1.5$ .

30. PHẠM QUANG TUYÉN [PQT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 2 + 1 + 1.5 + 1.5 + 2.5 + 2.5$ .

## 9 UMT Fall Semester 2025/1575: Linear Algebra LAB 2

1. HỒ NGỌC VÂN ANH [HNVA].

- Attendance:  $-2 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1 + 1 + 0.5 + 1.5 + 0.5 + 1.5 + 1.5 + 1.5 + 1.5 + 3 + 3$ .

2. NGUYỄN TIẾN BÌNH [NTB].

- Attendance:  $0.5 + 0.5 + 0.5 - 2$ .
- Bonus:  $1.5 + 1.5 + 1 + 2 + 1 + 2 + 1.5 + 1.5$ .

3. PHẠM THÉ CÔNG.

- Attendance:  $-3 - 2 - 2 - 2$ .
- Bonus:

4. BÙI NGUYỄN MINH HOÀNG [BNMH].

- Attendance:  $-3 - 2 - 2 - 2$ .
- Bonus:

5. TRẦN QUANG KHẢI [TQK].

- Attendance:  $-3 + 0.5 + 0.5 - 2$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1 + 2$ .

6. TRẦN HÙNG KHANG [THK].

- Attendance:  $0.5 + 0.5 - 1 + 0.5$ .
- Bonus:  $1 + 0.5 + 0.5 + 0.5 + 0.5 + 1.5$  (BT15).

7. TRẦN THÀNH LỢI.

- Attendance:  $-3 - 2 - 2 - 2$ .
- Bonus:

8. TRẦN HUỲNH LONG [THL].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1.5 + 1.5 + 1 + 1 + 2 + 0.5 + 1.5 + 1.5 + 2.5$ .

9. LUÔNG TIỀU LONG [LTL].

- Attendance:  $0.5 + 0.5 + 0.5 - 2$ .
- Bonus:  $1.5 + 1.5 + 1 + 1 + 1 + 1.5 + 1 + 1 + 2 + 2 + 1.5 + 2$ .

10. HỒ THỊ THUÝ NGÂN [HTTN].

- Attendance:  $-3 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5 + 1.5 + 0.5 - 0.5 + 1 + 1.5$ .

11. HUỲNH HOÀN PHÚC [HHP].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $0.5$  (BT1) +  $0.5$  (BT2) +  $0.5$  (BT3) +  $1$  (BT4) +  $0.5$  (BT5) +  $1.5 + 1$  (BT6) +  $1.5 + 1$  (BT7) +  $1 + 0.5$  (BT8) +  $2 + 1.5$  (BT9) +  $1 + 0.5$  (BT10) +  $2 + 1.5 + 1.5 + 2 + 2.5 + 1 + 1.5$ .

12. TRẦN QUANG SƠN [TQS].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1.5 + 1 + 2 + 1 + 1.5$ .

13. VÕ NGUYỄN TẤN TÀI [VNTT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1.5 + 1.5 + 1 + 2 + 1 + 1.5 + 1.5 + 1.5 + 3 + 2.5$ .

14. NGUYỄN ĐỨC THÀNH TÀI [NDTT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 0.5 + 1 + 1 + 1 + 1 + 1 + 1.5 + 0.5$ .

15. PHẠM ĐĂNG HOÀNG THIỀN [PDHT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1$  (BT7)  $+ 1 + 1 + 2 + 1.5 + 1.5 + 2.5$ .

16. BÙI THỊ ANH THƯ [BTAT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 0.5 + 1 + 0.5 + 1 + 0.5 + 1.5 + 1 + 1 + 0.5 + 1.5 + 1 + 1.5 + 1 + 1.5 + 1 + 1.5 + 1 + 3 + 2 + 2.5 + 1.5$ .

17. NGUYỄN ĐỨC TRUNG [NDT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1.5 + 1 + 2 + 1 + 1.5 + 1.5 + 1.5 + 2.5 + 2.5$ .

18. TRẦN MỘNG TUYỀN [TMT].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1.5 + 1 + 1.5 + 1 + 2 + 1 + 1.5 + 1.5 + 3 + 3$ .

19. TRẦN NGUYỄN PHƯƠNG VY [TNPV].

- Attendance:  $0.5 + 0.5 + 0.5 + 0.5$ .
- Bonus:  $1 + 1 + 1 + 1 + 1 + 1.5 + 1 + 1 + 1 + 1.5 + 1.5$ .

## 10 Olympic Tin OLP ICPC

1. VÕ NGỌC TRÂM ANH [VNTA]. 1 (thief) + 2 (path queries).

2. ĐOÀN NGUYỄN ĐĂNG KHOA [DNDK]. K3.

- Bonus:  $0.5$  (weird alg)  $+ 0.5$  (miss number)  $+ 0.5$  (repetition)  $+ 0.5$  (increase array)  $+ 0.5$  (permutation)  $+ 0.5$  (num spiral)  $+ 0.5$  (bit string)  $+ 0.5$  (trailing zero)  $+ 0.5$  (coin pile)  $+ 0.5$  (IMO2007P5)  $+ 0.5$  (hangover)  $+ 0.5$  (sum)  $+ 0.5$  (ugly number)  $+ 0.5$  (speed limit)  $+ 0.5$  (self num)  $+ 0.5$  (gold coin)  $+ 0.25$  ( $3n + 1$  prob)  $+ 0.5$  (Hanoi tower)  $+ 0.5$  (new year number)  $+ 0.5$  (card friend)  $+ 0.5$  (fair division)  $+ 1$  (corridor).

3. ĐỖ ANH KIỆT [DAK].

- Bonus:  $0.5$  (virus)  $+ 1$  (count rooms)  $+ 1$  (dice)  $+ 1.5$  (shortest route I)  $+ 1$  (distribute apple)  $+ 3$  (permutation order)  $+ 0.25$  (trailing zero)  $+ 0.5$  (Raab game)  $+ 2.5$  (IMO2007P3)  $+ 0.25$  (hangover)  $+ 1.5$  (count bit)  $+ 0.75$  (grid color I)  $+ 1$  (negative prefix)  $+ 0.5$  (torch)  $+ 1$  (long jump)  $+ 1$  (prepare Olympiad)  $+ 1$  (strange machine).

4. TRẦN QUANG SƠN [TQS]. K3.

- Bonus:  $0.5 + 1$  (prime)  $+ 1$  (houseboat)  $+ 0.5$  (weird alg)  $+ 0.5$  (miss number)  $+ 0.5$  (repetition)  $+ 0.5$  (increase array)  $+ 0.5$  (num spiral)  $+ 0.5$  (bit string)  $+ 0.5$  (trailing 0)  $+ 0.5$  (coin pile)  $+ 0.5$  (IMO2007P5)  $+ 0.5$  (speed limit)  $+ 0.5$  (ride to school)  $+ 0.5$  (self num)  $+ 0.5$  (bee)  $+ 0.5$  (gold coin)  $+ 0.25$  ( $3n + 1$  prob)  $+ 0.5$  (Pascal lib)  $+ 0.5$  (tribonacci)  $+ 0.25$  (divisor game)  $+ 0.5$  (frog)  $+ 0.5$  (El fuchu)  $+ 0.5$  (fair division)  $+ 0.5$  (distinct element)  $+ 0.5$  (sublime sequence)  $+ 0.5$  (laser)  $+ 0.5$  (increase smash)  $+ 0.5$  (increase subarray)  $+ 0.5$  (2 vessel)  $+ 0.5$  (multiple construction)  $+ 0.5$  (pizza time)  $+ 1$  (strange machine) - 9.

5. PHẠM ĐĂNG HOÀNG THIỀN [PDHT]. K3.

- Bonus:  $0.5 + 1$  (houseboat)  $+ 2$  (remove digit)  $+ 1.5$  (next prime)  $+ 2$  (Christmas party)  $+ 0.5$  (frog)  $+ 0.5$  (torch)  $+ 0.5$  (be positive)  $+ 0.5$  (unconventional pairs)  $+ 0.5$  (odd divisor)  $+ 0.5$  (card friend)  $+ 0.5$  (new year number)  $+ 0.5$  (fair division)  $+ 0.5$  (MEX partition)  $+ 0.5$  (distinct element)  $+ 0.5$  (sublime sequence)  $+ 0.5$  (laser)  $+ 0.5$  (pacer)  $+ 0.5$  (increase smash)  $+ 0.5$  (incremental subarray)  $+ 0.5$  (2 vessel)  $+ 1$  (corridor) - 5.5.

## 11 Miscellaneous