



# Master of Business Administration and Engineering

Faculty of Engineering in Foreing Languages

**University POLITEHNICA of Bucharest** 





## Master of Business Administration and Engineering Program

- Strengthening the capacity of efficient use of ICT (Information and Communication Technology) integrated in environments complex software for functional, organizational, informational, economic and optimal resource allocation.
- Development of the economics, organizational and social competences and management skills to be applied in the working activities.
- Development of psychosocial skills (communication, negotiation) integrated in the management of complex projects.
- Develop the entrepreneurial perspective and the required skills.





#### **MBAE - Past**

- Established in 1996, promoted by prof. Paul Dan CRISTEA.
- Started as "Advanced Studies" on two semesters.
- Changed to Master Studies in 2001, initially on three semesters and later on four semesters.
- Obtained (re)accreditation from the Romanian Agency for Quality Assurance in Higher Education (ARACIS) on 22.04.2019.







#### **MBAE - Present**

Registrul Național al Calificărilor din Învățământul Superior - RNCIS\*

\*In curs de actualizare si transfer informatii

Versiune in transfer Apasa aici

| Informații generale   |   |                      |                                  |              | Descrierea<br>calificării   | Organismul de acordare a calificării    | Asigura  | area calității   |  |                   | Alte inform                      | rmații relevante privind calificarea  |  |  |  |
|---|---|----------------------|----------------------------------|--------------|---|---|--|--|--|-------------------|----------------------------------|---|--|--|--|
|   |   |                      |                                  |              | Cunoștințe  |   |  |  |  |                   |                                  | Legătura c  | u diferite ocupații sau sectoare de activita |  |  |
|   |   |                      |                                  |              | Aptitudini  |   |  |  |  |                   |                                  |   |  |  |  |
|   | Domeniul                                  |                      | Responsabilitate<br>și autonomie |              | Puncte de   |   |  |  |  |                   |                                  |   |  |  |  |
|   |   |                      |                                  | Sau          |   | credit sau<br>volum de                  | Organismul   | Diplomă /  |  |                   |                                  |   |  |  |  |
| Titlul calificárii  | educațional<br>conform<br>ISCED<br>2013 F | Codul<br>calificării | Nivel<br>CNC                     | Nivel<br>CEC | Câmp ce permite introducerea unui text liber pentru a descrie ceea ce ar trebui să cunoască, să înțeleagă și să fie capabil să facă cursantul | Organismul de acordare a calificării    | muncă<br>estimat a<br>fi necesar<br>pentru a<br>obține<br>rezultatele<br>învățării | extem de<br>asigurare a<br>calității sau<br>de<br>reglementare | orpiolita/<br>certificat și<br>suplimentul<br>la diplomă<br>/ certificat | Data<br>expirării | Informații privind<br>furnizorul | Ocupații care<br>pot fi<br>practicate pe<br>piața muncii                                  | Cod COR / ISCO-08                            |  |  |
| Cautare ▼   |   |                      |                                  |              |   | Cautare ▼                               |  |  |  |                   |                                  |   | 242103/242104/242101                         |  |  |
| Business Administration and Engineering<br>/Administrarea si Ingineria Afacerilor |   |                      | 7                                | 7            |   | Universitatea Politehnica din Bucuresti | 120<br>ECTS  | ARACIS   | PDF  | 2021              | www.ing.pub.ro/                  | Specialist<br>Strategie<br>Industriala /<br>Responsabil<br>Proces /<br>Manager<br>Proiect | 242103/242104/242101                         |  |  |





## **Subjects from Engineering and Economics**

| Sem.1                                | Sem. 2  | Sem. 3                         | Sem. 4       |
|--------------------------------------|---|--------------------------------|--------------|
| Industrial Marketing                 | Strategic Management                              | Technology<br>Entrepreneurship | Etics        |
| Financial Management                 | Numerical Methods for Economic Systems            | Project Management             |              |
| Management of<br>Information Systems | Data and Signal Processing for Business           | Prediction of System Evolution |              |
| Event Driven Dynamic<br>Systems      | Business Cultural Models and Diversity Management |                                |              |
| International Trade and Transactions |   |                                |              |
| Scientific Research 1                | Scientific Research 2                             | Scientific Research 3          | Dissertation |





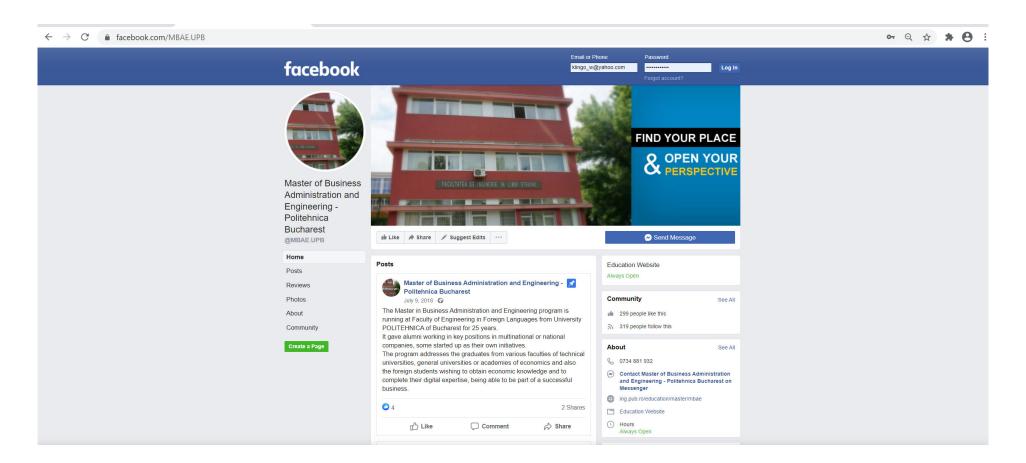
## Professors with interdisciplinary experience







#### **MBAE** Facebook Page







#### **MBAE - Future**

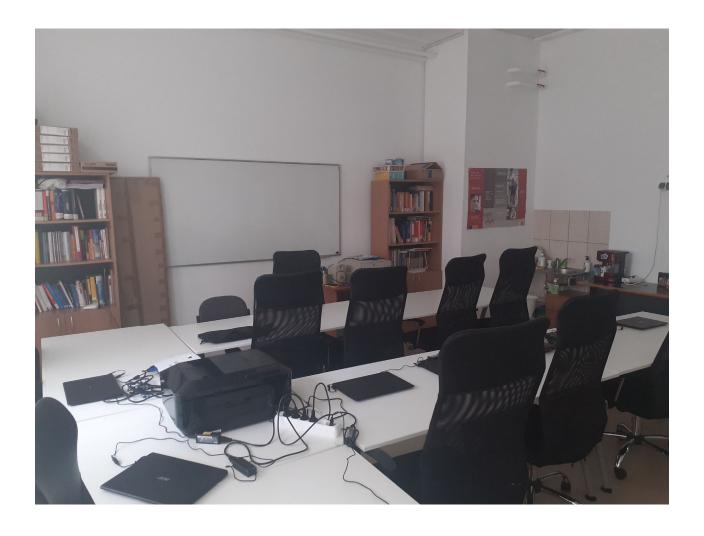


#### **Technology Entrepreneurship - Past**

- Started by Prof. Mark Harris, former Director of the Intel® Higher Education & Research Programs for the EMEA Region
- While at Intel, Prof. Harris built Intel's global Technology Entrepreneurship program together with UC Berkeley California's Lester Center for Entrepreneurship.
- He initiated and held the lecture of Technology Entrepreneurship at the MBAE program from 2006 to 2012
- For his dedication and generous contribution, he obtained the title of Doctor Honoris Causa from the UPB.



#### **Technology Entrepreneurship - Present**



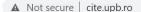
Entrepreneurial Hub – Donation JARomania

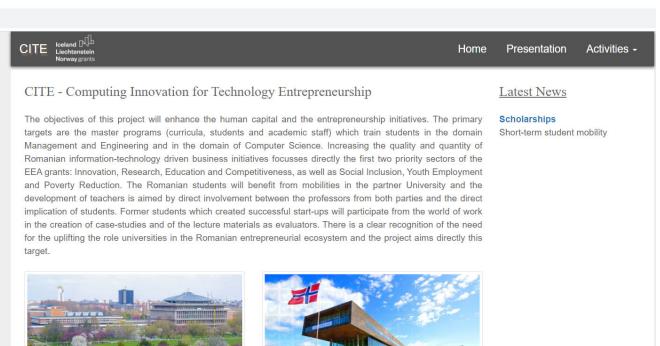
#### **Technology Entrepreneurship - Present**



On 11th of November 2019, Saleh Farazi, Adjunct Professor at Universidad Carlos III de Madrid and graduate of our faculty, has given a short lecture on Technology and Innovation Management to the students from MBAE

### **Technology Entrepreneurship - CITE Project**





The Cooperation Project in Higher Education 18-COP-0012 CITE

**Project Partners** 





Universitatea Politehnica din Bucuresti



Østfold University College

## **Technology Entrepreneurship - CITE Project**







#### **Technology Entrepreneurship - Present**









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#### **Technology Entrepreneurship - Future**

30 sub 30 – Mihai Cepoi: Peste 10.000 de candidați folosesc Jobful. Ne pregătim să primim o rundă de finanțare

A pus bazele primei platforme de recrutare bazate pe conceptul de gamification din România și plănuiește deja să o lanseze pe alte piețe din regiune.











**Jobful** 







#### **Technology Entrepreneurship - Future**

30 sub 30 – Roxana Bitoleanu: "România pierde 3 fermieri pe oră, o rată care, dacă se păstrează, va însemna că în 40 de ani vom fi fără niciunul"

A pus bazele unei platforme care pune în contact producătorii locali de legume și fructe și consumatorii care vor produse naturale.















## ECHIPA DE STUDENȚI UMALO PREMIATĂ LA FINALA NAȚIONALĂ A COMPETIȚIEI COMPANIA ANULUI 2020



## Learning plan

| Nr. crt. | Nume disciplină  | Cod       | C.s.t. |    |   | .ore/s  | _ |      | Nr.  | Т        | otal or | e     | Studiu indiv. | Forma  |
|----------|--|-----------|--------|----|---|---------|---|------|------|----------|---------|-------|---------------|--|
| Nr. Crt. | Nume disciplina  | Cou       | U.S.L. | С  | _ | mest    | _ | Cerc | sapt | Curs     | Aplic   | Total |               | verificare                                       |
|          | Discipline OBLIGATORII   |           |        |    |   |         |   |      |      |          |         |       |               |  |
| 1        | Industrial Marketing/<br>Marketing Industrial                                  | 12D09O001 | 4      | 2  |   | 1       |   |      | 14   | 28       | 14      | 42    | 58            | E  |
| 2        | Financial Management/<br>Management financiar                                  | 12D09O002 | 4      | 2  |   | 1       | 1 |      | 14   | 28       | 28      | 56    | 44            | E  |
| 3        | Management of Information Systems/<br>Managementul sistemelor informationale   | 12S09O001 | 4      | 2  |   | 1       |   |      | 14   | 28       | 14      | 42    | 58            | E  |
| 4        | Event Driven Dynamic Systems/<br>Sisteme dinamice conduse de evenimente        | 12S09O002 | 4      | 2  |   | 1       |   |      | 14   | 28       | 14      | 42    | 58            | E  |
| 5        | International Trade and Transactions/<br>Comert si tranzactii internationale   | 12S09O003 | 4      | 2  |   | 1       |   |      | 14   | 28       | 14      | 42    | 58            | E  |
| 6        | Scientific and practical research 1<br>Cercetare ştiinţifică şi practică 1     | 12S09O004 | 10     |    |   |         |   | 12   | 14   | 0        | 168     | 168   | 82            | V  |
|          | Discipline OPŢIONALE   |           |        |    |   |         |   |      |      |          |         |       |               |  |
| 1        |  |           |        |    |   |         |   |      |      |          |         |       |               | $\Box$   |
| 2        |  |           |        | _  |   |         |   |      |      |          |         |       |               | <del>                                     </del> |
|          | Statistici ore obligatorii   |           |        | 40 |   | _       |   | 40   |      | 440      | 050     | 200   | 250           | E / V  |
|          | PC, Nr.ore/sapt/act. (C,S,L,P,PL,studiu indiv.) Nr. Ore / saptamana / semestru |           | 30     | 10 | 0 | 5<br>28 | 1 | 12   | 14   | 140      | 252     | 392   | 358           | 5  |
|          | DISCIPLINE FACULTATIVE (Modul pedagogic Nivel II+)                             |           |        |    |   | 20      |   |      |      | $\vdash$ |         |       |               | 1  |
| 1        | Proiectarea și managementul programelor educaționale                           | 12C09L001 | 5      | 2  | 1 |         |   |      | 14   | 28       | 14      | 42    | 83            | E  |

Anul I - Semestrul II

|          |   |           |        |              | Nr. | .ore/s | sapt. |      | Nr.        | Total ore |       | _      | Studiu     | Forma      |
|----------|---|-----------|--------|--------------|-----|--------|-------|------|------------|-----------|-------|--------|------------|------------|
| Nr. crt. | Nume disciplină   | Cod       | C.s.t. | Semestrul II |     |        |       | sapt | I otal ore |           |       | indiv. | verificare |            |
|          |   |           |        | C            | S   | L      | P     | Cerc | Sapt       | Curs      | Aplic | Total  | total      | verificare |
|          | Discipline OBLIGATORII  |           |        |              |     |        |       |      |            |           |       |        |            |            |
| 4        | Strategic Management/   | 12D10O001 | 5      | 2            |     | 2      |       |      | 14         | 28        | 28    | 56     | 69         | _          |
| '        | Management strategic  | 120100001 | ,      | -            |     |        |       |      | 14         | 20        | 20    | 30     | 5          |            |
| 2        | Numerical Methods for Economic Systems/                       | 12S10O001 | 5      | 2            |     | 4      | 4     |      | 14         | 28        | 28    | 56     | 69         | _          |
|          | Metode numerice pentru sistemele economice                    | 123100001 | "      | -            |     | Ι'     | ١.    |      | 14         | 20        | 20    | 30     | 09         | <u>ا</u> ا |
| 3        | Data and Signal Processing for Business/                      | 12S10O002 | 5      | 2            |     | _      |       |      | 14         | 28        | 28    | 56     | 69         | -          |
| 3        | Procesare datelor si semnalelor pentru afaceri                | 123100002 | ٠ ا    | -            |     | ו י    | ו ו   |      | 14         | 26        | 26    | 50     | 69         | -          |
| 4        | Business Cultural Models and Diversity Management/            | 12S10O003 | 5      | 2            |     | 2      |       |      | 14         | 28        | 28    | 56     | 69         | _          |
| 4        | Modele culturale in afaceri si managementul diversitatii      | 125100003 | °      | -            |     | -      |       |      | 14         | 20        | 20    | 50     | 09         | -          |
| 5        | Scientific and practical research 2/                          | 12S10O004 | 10     |              |     |        |       | 12   | 14         | _         | 168   | 168    | 82         | V          |
| ٥        | Cercetare ştiinţifică şi practică 2                           | 123100004 | 10     |              |     |        |       | 12   | 14         | U         | 100   | 100    | 02         | v          |
|          | Discipline OPŢIONALE  |           |        |              |     |        |       |      |            |           |       |        |            |            |
| 1        |   |           |        |              |     |        |       |      |            |           |       |        |            |            |
| 2        |   |           |        |              |     |        |       |      |            |           |       |        |            |            |
|          | Statistici ore obligatorii / opționale                        |           |        |              |     |        |       |      |            |           |       |        |            | E / V      |
|          | PC, Nr.ore/sapt/act. (C,S,L,P,PL,studiu indiv.)               |           | 30     | 8            | 0   | 6      | 2     | 12   | 14         | 0         | 0     | 0      | 0          | 4          |
|          | Nr. Ore / saptamana / semestru                                |           |        |              |     | 28     |       |      |            |           | _     |        |            | 1          |
|          | DISCIPLINE FACULTATIVE (Modul pedagogic +)                    |           |        |              |     |        |       |      |            |           |       |        |            | _          |
| 1        | Psihopedagogia adolescenților, tinerilor și adulților         | 12C10L001 | 5      | 2            | 1   |        |       |      | 14         | 28        | 14    | 42     | 83         | E          |
| 2        | Consiliere si orientare / Multimedia în educatie (Optional 1) | 12C10L002 | 5      | 1            | 2   |        |       |      | 14         | 14        | 28    | 42     | 83         | E          |

## Learning plans (2)

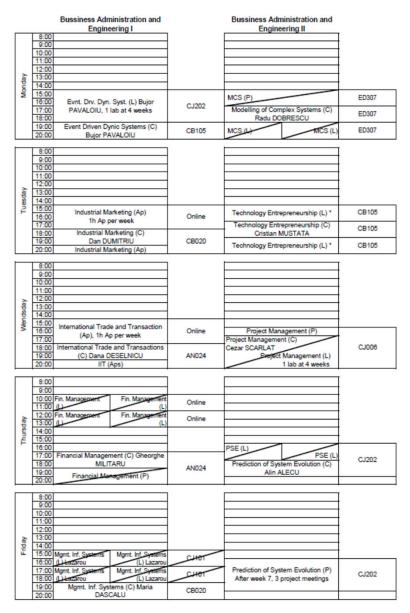
Anul II - Semestrul I

|          |  |           |        |          |              | .ore/s |   |      | Nr.  | Total ore |       |       | Studiu | Forma      |
|----------|--|-----------|--------|----------|--------------|--------|---|------|------|-----------|-------|-------|--------|------------|
| Nr. crt. | Nume disciplină  | Cod       | C.s.t. | <u> </u> | Semestrul II |        |   |      |      |           |       |       | indiv. | verificare |
|          |  |           |        | С        | S            | L      | P | Cerc | sapt | Curs      | Aplic | Total | total  | vermeare   |
|          | Discipline OBLIGATORII   |           |        |          |              |        |   |      |      |           |       |       |        |            |
| 1        | Technology Entrepreneurship/<br>Antreprenoriat in tehnologie                                     | 12D11O001 | 5      | 2        |              | 2      |   |      | 14   | 28        | 28    | 56    | 69     | E          |
| 2        | Project Management/<br>Managementul proiectelor  | 12D11O002 | 5      | 2        |              | 1      | 1 |      | 14   | 28        | 28    | 56    | 69     | E          |
| 3        | Prediction of System Evolution/<br>Predictia evolutiei sistemelor                                | 12S11O001 | 5      | 2        |              | 1      | 1 |      | 14   | 28        | 28    | 56    | 69     | E          |
| 4        | Modeling of Complex Systems/<br>Modelarea sistemelor complexe                                    | 12S11O002 | 5      | 2        |              | 1      | 1 |      | 14   | 28        | 28    | 56    | 69     | E          |
| 5        | Scientific and practical research 3/<br>Cercetare ştiinţifică şi practică 3                      | 12S11O003 | 10     |          |              |        |   | 12   | 14   | 0         | 168   | 168   | 82     | V          |
|          | Discipline OPŢIONALE   |           |        |          |              |        |   |      |      |           |       |       |        |            |
| 1        |  |           |        |          |              |        |   |      |      |           |       |       |        |            |
| 2        |  |           |        |          |              |        |   |      |      |           |       |       |        |            |
|          | Statistici ore obligatorii / opționale   |           |        |          |              |        |   |      |      |           |       |       |        | E / V      |
|          | PC, Nr.ore/sapt/act. (C,S,L,P,PL,studiu indiv.)  |           | 30     | 8        | 0            | 5      | 3 | 12   | 14   | 0         | 0     | 0     | 0      | 4          |
|          | Nr. Ore / saptamana / semestru   |           |        |          |              | 28     |   |      |      |           |       |       |        | 1          |
|          | DISCIPLINE FACULTATIVE (Modul pedagogic +)   |           |        |          |              |        |   |      |      |           |       |       |        |            |
| 1        | Didactica domeniului si dezvoltari in didactica specializarii<br>(invatamant liceal, postliceal) | 12C11L001 | 5      | 2        | 1            |        |   |      | 14   | 28        | 14    | 42    | 83     | E          |
| 2        | Sociologia educației / Educație Interculturală (Optional 2)                                      | 12C11L002 | 5      | 1        | 2            |        |   |      | 14   | 14        | 28    | 42    | 83     | E          |

Anul II - Semestrul II

|          |  |           | C.s.t. |                   |   | .ore/s |   |      | Nr.  | Total ore |       |        | Studiu     | Forma      |
|----------|--|-----------|--------|-------------------|---|--------|---|------|------|-----------|-------|--------|------------|------------|
| Nr. crt. | Nume disciplină  | Cod C     |        | I Semestrul III I |   |        |   |      |      |           |       | indiv. | verificare |            |
|          |  |           |        | С                 | S | L      | P | Cerc | sapt | Curs      | Aplic | Total  | total      | verificare |
|          | Discipline OBLIGATORII   |           |        |                   |   |        |   |      |      |           |       |        |            |            |
| 1        | Research, practice research and dissertation preparation<br>Cercetare ştiinţifică, practică de cercetare şi elaborare disertaţie | 12S12O001 | 28     |                   |   |        |   | 27   | 14   | 0         | 378   | 378    | 322        | V          |
| 2        | Etics/<br>Etică  | 12F12O001 | 2      | 1                 |   |        |   |      | 14   | 14        | 0     | 14     | 36         | V          |
|          | Discipline OPŢIONALE   |           |        |                   |   |        |   |      |      |           |       |        |            |            |
| 1        |  |           |        |                   |   |        |   |      | 14   | 0         | 0     | 0      | 0          |            |
| 2        |  |           |        |                   |   |        |   |      | 14   | 0         | 0     | 0      | 0          |            |
|          | Statistici ore obligatorii   |           |        |                   |   |        |   |      |      |           |       |        |            | E / V      |
|          | PC, Nr.ore/sapt/act. (C,S,L,P,PL,studiu indiv.)  |           | 30     | 1                 | 0 | 0      | 0 | 27   | 14   | 0         | 0     | 0      | 0          | 0          |
|          | Nr. Ore / saptamana / semestru   |           |        |                   |   | 28     |   |      |      |           |       |        |            | 2          |
|          | DISCIPLINE FACULTATIVE   |           |        |                   |   |        |   |      |      |           |       |        |            |            |
| 1        | Practică pedagogică (invatamant liceal, postliceal)  | 12C12L001 | 5      |                   |   |        |   | 3    | 14   | 0         | 42    | 42     | 83         | V          |
| 2        | Examen de absolvire, Nivelul II  | 12C12L002 | 5      |                   |   |        |   |      | 2    |           |       |        |            | E          |

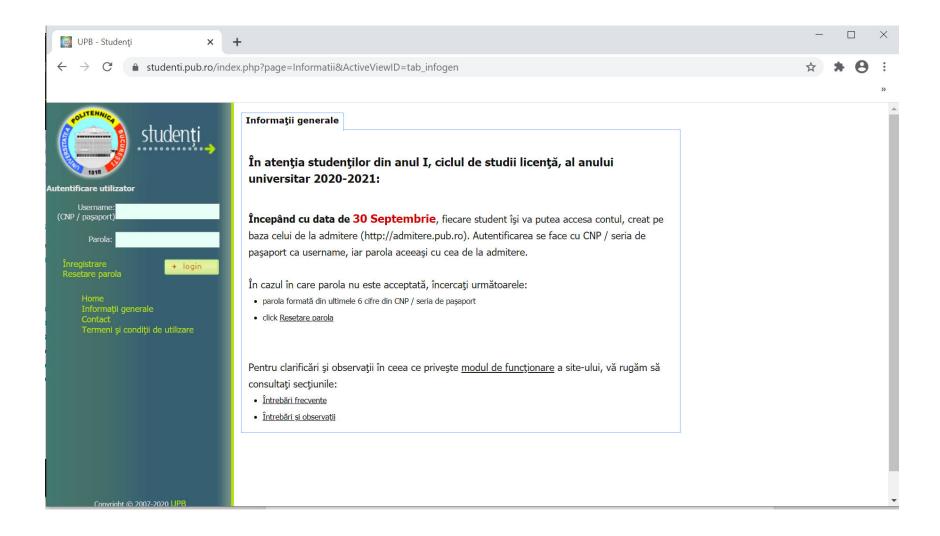
#### **Timetable**



Responsabil orar:

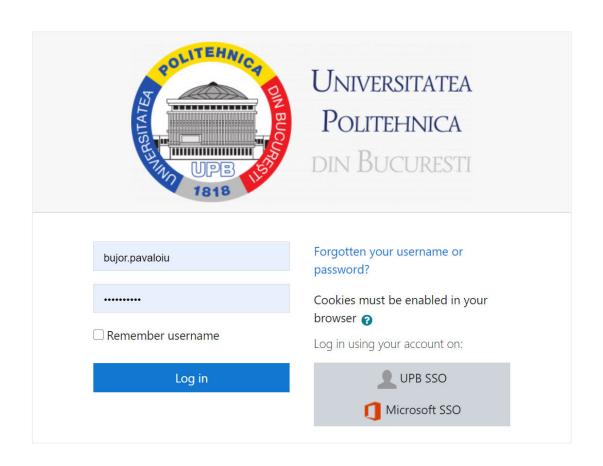
Bujor PAVALOIU klingo\_w@yahoo.com \*Technology Entrepreneurship lab will be completed with a Business Simulation block in January based on a schedule decided with the students.

#### Student data



#### **E-learning platform**





#### **Microsoft Teams**

